Mayfield High School

Course Catalog

2015-2016

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To Students and Parents,

Mayfield High School continues to be recognized by ***Newsweek, US News & World Report***, **The College Board,** ***The Washington Post***, and **The Ohio Department of Education**. This is because we are a comprehensive high school that offers a wide variety of courses for its student body. In addition to the traditional program, Mayfield High School offers honors, advanced placement, technical education, and special education curricula. It is incumbent upon each student to carefully analyze the course offerings included in this catalog and make selections based upon career aspirations, interests and capabilities. We aim to assist, "Every Student, Every Day."

This catalog should be used as a four-year planning guide for all students in grades nine through twelve. Please use the Course Planner located in the back of this Course Catalog to beginning planning the courses you would like to take during your high school years. Course descriptions, credits and graduation requirements are accurate for the year of publication. Changes and new course offerings will be available to students each year. STEM2M will be available at the high school this year, along with College Career Plus, a replacement to the PSEO program.

The Mayfield High School course catalog links the selection of courses with one or more of Ohio's Career Cluster Areas that a student may pursue following graduation. Understanding that the decisions necessary to develop an educational plan in high school will certainly impact one's future, Mayfield High School has designed a document that offers many opportunities to explore challenging courses. Potentially, these courses may help a student discover a future career path.

This document operates as a guide to develop an educational plan for every student. Ultimately, it may serve as a template to design a course of study to determine a post secondary education and career plan or serve as a reflective tool. Furthermore, it may be the impetus to determine trends in academic interests and talents that relate to one or more of the six cluster areas. The varied programs offered at Mayfield High School play an integral role in the educational process where all students reap the rewards of their efforts.

The high school years are a time for personal growth and preparation for the future. This catalog is designed to make students aware of academic requirements and course offerings. We hope you find this useful as you begin to develop a four-year program of studies.

Laila R. Discenza

Assistant Principal
Curriculum, Instruction and Staff Development

Get involved with your child's learning:

Your Child's Development: the High School Years

The high school years are a busy time for families of teens, who are rapidly changing as they develop physically, mentally, socially and emotionally.

Teens spend more time thinking about their future and discussing topics about which they feel strongly. They are able to think more abstractly and understand more complex issues than when they were at age 13.

Many teens take on part-time jobs, extra-curricular activities and more challenging classes at school. At the same time, many teens expand their social life and do more activities apart from their families. While teens enjoy their new-found freedom, they are often uncertain about making good decisions and depend on their parents to help them. Parents can help prepare their teens in the high school years by setting limits for their behavior, and most importantly, listening and talking with them.

If you are concerned about your child's learning or behavior, talk with your child's teachers, the school counselor, the school principal or the district special education coordinator.

TABLE OF CONTENTS

WHAT IT TAKES TO EARN A MAYFIELD DIPLOMA

There are testing requirements and curriculum requirements connected with a Mayfield diploma; students must meet both requirements in order to earn a Mayfield diploma. The two sections below provide you with more information about these two diploma requirements. The third section provides information about an alternative way to meet the testing requirements.

I. Curricular Requirements

Classes of 2013 and Beyond

Requirements	Credits	Comments
English	4.0	9 Introduction to Literature Study and Composition, 10 World Literature and Composition, 11 American Literature and Composition, and 12 British Literature and Composition
Communications	0.5	Communications or News Writing for Electronic Media
Health	0.5	Health
Mathematics	4.0	Ohio requires that the mathematics credits must include one (1) credit of Algebra 2 or the equivalent of Algebra 2. At Mayfield a student would need to complete a Mathematics 3 course to meet this requirement.
Physical Education	0.5	One (1) semester taken during both grade 9 and grade 10
Science	3.0	1.0 credit in Life Science 1.0 credit in Physical Science 1.0 credit advanced study in: chemistry, physics, or other physical science; advanced biology or other life science; astronomy, physical geology, or other earth or space science
Social Studies	3.0	U.S. History, World History, Government
Fine Arts	1.0	Students must complete at least two (2) semesters of fine arts taken from the list of fine arts course offerings included in both the Student Handbook and the Course Catalog. Students following a career-technical pathway are exempt from the fine arts requirement.
Technology	0.5	The technology credit must be taken from the list of technology course offerings included in both the Student Handbook and the Course Catalog.
Electives	4.0	Elective credits may include any combination of courses taken in excess of the credits listed above.
Total	**21.0**	

Fine Arts Course Offerings

Appropriate fine arts experiences for high school students preparing for college should include essential content in the following: creating or performing works of art, understanding the history of the arts, and/or responding to the aesthetic features of works of art. Courses offered at Mayfield High School that are generally included in the fine arts area are:

Applied Arts Department

Advanced Media Production	*1.0 credit year course*
Clothing and Design	*0.5 credit semester course*
Digital Media Production 1	*0.5 credit semester course*
Digital Media Production 2	*0.5 credit semester course*
Fashion and Accessories	*0.5 credit semester course*

English Department

Film Analysis	*0.5 credit semester course*
Yearbook	*1.0 credit year course*

Fine Arts Department

A.P. Art History	*1.0 credit year course*
A.P. Studio Art	*1.0 credit year course*
American Pop Music	*1.0 credit year course*
Art Foundations	*0.5 credit semester course*
Art Foundations 2	*0.5 credit semester course*
Art 2	*1.0 credit year course*
Advanced Art 1	*1.0 credit year course*
Advanced Art 2 Honors	*1.0 credit year course*
Advanced Art 3 Honors	*1.0 credit year course*
Ceramics 1	*0.5 credit semester course*
Ceramics 2	*0.5 credit semester course*
Chorale	*1.0 credit year course*
Digital Art and Design 1	*0.5 credit semester course*
Digital Art and Design 2	*0.5 credit semester course*
Drawing/Painting	*0.5 credit semester course*
Illustration	*0.5 credit semester course*
Jazz Band	*0.5 credit year course*
March and Concert Band	*1.0 credit year course*
Men's Chorus	*1.0 credit year course*
Women's Chorus	*1.0 credit year course*
Photography 1	*0.5 credit semester course*
Photography 2	*0.5 credit semester course*

Technical Education

Audio and Video Production 1	*3.0 credits year course at Aurora*
Audio and Video Production 2	*3.0 credits year course at Aurora*
Visual Art and Design 1	*3.0 credits year course at Orange*
Visual Art and Design 2	*3.0 credits year course at Orange*

Technology Course Offerings

The technology credit may be obtained through these courses:

Applied Arts Department

Advanced Digital Media Production	*1.0 credit year course*
Computer Programming with Visual BASIC	*0.5 credit semester course*
Computer Programming with Java	*0.5 credit semester course*
Digital Media Production 1	*0.5 credit semester course*
Digital Media Production 2	*0.5 credit semester course*
Information Technology 1	*0.5 credit semester course*
Information Technology 2	*0.5 credit semester course*
Technology 1	*0.5 credit semester course*
Web Site Design for Personal and Business Use	*0.5 credit semester course*

English Department

News Writing for Electronic Media	*0.5 credit semester course*

Fine Arts Department

Digital Art and Design 1	*0.5 credit semester course*
Photography 1	*0.5 credit semester course*
Digital Art and Design 2	*0.5 credit semester course*

Technical Education

Business Academy 1	*3.0 credits year course at Mayfield*
Business Academy 2	*3.0 credits year course at Brush*
CADD Engineering 1	*3.0 credits year course at Lakeland*
CADD Engineering 2	*3.0 credits year course at Lakeland*
Computers, Networking, and Electronics 1	*3.0 credits year course at Mayfield*
Computers, Networking, and Electronics 2	*3.0 credits year course at Mayfield*
Information Technology and Programming 1	*3.0 credits year long at Mayfield*
Information Technology and Programming 2	*3.0 credits year long at Mayfield*
Interactive Media 1	*3.0 credits year long at Mayfield*
Interactive Media 2	*3.0 credits year long at Mayfield*
Audio and Video Production 1	*3.0 credits year long at Aurora*
Audio and Video Production 2	*3.0 credits year long at Aurora*

II. Graduation Test Requirements
a. Class of 2018 and Beyond

- All students take End of Course Exams (EOC):
  - Math 1 and Math 2
  - Biology
  - American History and American Government
  - English 1 and English 2

- The students will earn points towards graduation on the 7 EOC exams

Students must accumulate 18 graduation points (4 points in Math, 4 points in English, 6 points across Social Studies and Science.) **There is no subsequent need to score higher than 18 points.**

- Students can earn 1-5 points for each exam, based on their performance:
  - 5 Advanced
  - 4 Accelerated
  - 3 Proficient
  - 2 Basic
  - 1 Limited

Special Circumstances:
Students taking Advanced Placement in Physical Science, American History or American Government may take assessments aligned with those courses in lieu of an end-of-course exam to avoid double testing.

Students who transfer into a district with no previous scores and only a few courses, will have their graduation point requirement minimum prorated.
http://education.ohio.gov/Topics/What-s-Happening-with-Ohio-s-Graduation-Requiremen/Latest-Updates-on-Graduation-Requirements/Graduation-Requirements-Frequently-Asked-Questions#FAQ188

Students that take high school courses over the summer must still take the End of Course exam if applicable.

Students will be able to earn graduation points, to be assigned by the state superintendent, if an end-of-course test was not available when they earned credit for a required course. This applies to courses taken before and during the 2014-2015 school year.

Students who score below proficient on a test may retake it after they receive remediation support on the material.

Students who score proficient or higher can retake tests only if, after they have taken ALL tests, they still haven't met the minimum graduation points to graduate.

II. Graduation Test Requirements

b. Classes of 2015 through 2017 and those repeating ninth grade the 2014-2015 school year will continue to operate under Ohio's current graduation requirement

All students must pass all five sections of the Ohio Graduation Test (OGT) and meet minimum graduation requirements in order to receive a diploma. It is not enough just to complete curriculum requirements or just to pass graduation exams; students who earn an Ohio diploma must meet **both** the test performance standards and the curriculum requirements.

The Ohio Graduation Test (OGT) measures proficiency in five content areas: reading, writing, mathematics, science and social studies. The purpose of the exam is to ensure that all students who receive a high school diploma in Ohio have demonstrated competency in the five content areas as well as have completed curricular requirements.

The graduation exam measures knowledge and skills that students are expected to learn by March of the tenth grade year. Each exam is based on graduation competencies recommended by content-area committees consisting of Ohio educators.

OGT Test administrations before graduation:

Summer between Grades 10 and 11 (optional)
Fall of Grade 11
Spring of Grade 11
Summer between Grades 11 and 12 (optional)
Fall of Grade 12
Spring of Grade 12

Students who have not demonstrated proficiency in all required content areas by the time they have completed curricular requirements for graduation will not receive a high school diploma. Students may return to any public or chartered nonpublic school during the administration of the OGT to retake those content area exams not yet passed. Upon attaining a passing score in the deficient area(s) and providing evidence of meeting curriculum requirements, students will be awarded a diploma.

III. Alternative Way to Meet the Testing Points Requirements

a. Classes of 2018 and beyond:

- Earn a "remediation free" score on a nationally recognized college admission exam, i.e. ACT or SAT. The state will pay for all 11th grade students in the class of 2018 and beyond.

OR

- Earn a State Board of Education approved, industry-recognized credential or state-issued license for a practice in a career and achieve a score that demonstrates workforce readiness.

b. Classes of 2015 through 2017 and 14-15 repeat ninth graders

A student may meet the testing requirements for passing all five Ohio Graduation Tests if he/she meets **ALL** of the following criteria:

1. passes four of the five tests and has missed passing the fifth test by no more than 10 points;

2. has a 97% attendance rate, excluding any excused absences, through all four years of high school and must not have had an expulsion in high school;

3. has at least a grade point average of 2.5 out of 4.0 in the courses of the subject area not yet passed;

4. has completed the high school curriculum requirements;

5. has participated in any intervention programs offered by the school and must have had a 97% attendance rate in any programs offered outside the normal school day; and

6. has letters recommending graduation from the high school principal and from each high school teacher in the subject area not yet passed.

The Diploma with Honors

The student who completes the high school academic curriculum shall meet at least seven of the following eight criteria:

1. earn four units of English;

2. earn at least four units of mathematics, which shall include Mathematics 1, Mathematics 2, Mathematics 3, and another higher level course;

3. earn at least four units of science, including one unit of physics and one unit of chemistry;

4. earn four units of social studies;

5. earn either three units of one foreign language or two units each of two foreign languages;

6. earn one unit of fine arts;

7. maintain an overall high school unweighted grade point average of at least 3.5 on a 4.0 point unweighted scale up to the last grading period of the senior year; or

8. obtain a composite score of 27 on the American College Test's ACT Assessment (excluding the optional writing test) or a combined score of 1210 on the College Board's SAT verbal and mathematics sections (excluding the required writing section).

The student who completes an intensive career in a technical education curriculum shall meet at least seven of the following eight criteria:

1. earn four units of English;

2. earn at least four units of mathematics, which shall include Mathematics 1, Mathematics 2, Mathematics 3, and another higher level course;

3. earn at least four units of science, including two units of advanced science*;

4. earn four units of social studies;

5. earn four units in a career-technical education program that leads to an industry-recognized credential, results in an apprenticeship, or is part of an articulated career pathway which can lead to post-secondary credit. If the student's program design does not provide for any of these outcomes, then the student must achieve the proficiency benchmark established for the applicable Ohio Career-Technical Competency Assessment or the equivalent;

6. achieve the proficiency benchmark established for the Ohio Career-Technical Competency Assessment or equivalent assessment aligned with State-approved and industry validated technical standards;

7. maintain an overall high school unweighted grade point average of at least 3.5 on a 4.0 point unweighted scale up to the last grading period of the senior year; or

8. obtain a composite score of 27 on the American College Testing Service's ACT Assessment (excluding the optional writing test) or a combined score of 1210 on the College Board's SAT verbal and mathematics sections (excluding the score obtained on the required writing section).

* Advanced science refers to courses in the Ohio Core that are inquiry-based with laboratory experiences and align with the 11/12th grade standards (or above) or with an AP science course, or with the new high school syllabi, or with an entry-level college course (clearly preparing students for a college freshman-level science class, such as anatomy, botany, or astronomy), or contain material above the current OGT level.

COLLEGE PREPARATORY CURRICULUM

The minimum core for college preparation is listed below. Students who intend to apply to a four-year college should expect to complete the curriculum at Mayfield High School.

1. English – 4 units
2. Mathematics – 4 units (Algebra content or above)
3. Social Studies – 3 units
4. Science – 3 units of Lab Science
5. Foreign Language – 2 or 3 units
6. Fine Arts – 1 unit

State and private colleges are required to establish admission policies in line with goals and purposes of the institution. By necessity, admission standards will vary from college to college. Some universities may require more extensive preparation in specific subject areas. **Check with the university of your choice** or your school counselor for the most up-to-date information.

The following coursework is strongly recommended by the Mayfield City Schools for all students who are preparing to attend college. Studies show that students who take a **rigorous college preparatory curriculum** are the most successful in college.

GRADE 9
9 Introduction to Literature and Comp.
U.S. History
Mathematics 1
9 Physical Science
Foreign Language *
Information Technology 1
(or other technology courses)
Fine Arts
Physical Education

GRADE 10
10 World Literature and Composition
World History
Mathematics 2
10 Biology
Foreign Language*
Communication Course
Health
Physical Education

*A minimum of 2 or 3 years of the same language in grades 8 - 12.

GRADE 11
11 American Literature and Composition
Social Studies (Elective)
Mathematics 3
Chemistry or other advanced science course
Foreign Language *
Additional Electives

GRADE 12
12 British Literature and Composition
American Government
Mathematics 4
Physics or other advanced science course
Additional Electives

*A minimum of 2 or 3 years of the same language in grades 8 - 12.

How Colleges Select Students

Before they decide if they will admit a student, college admissions directors and their committees consider the following. The criterion used depends on the selectivity of the college. This list does NOT indicate order of importance!

1. The student's high school academic record and the rigor of his/her coursework
2. The type of coursework pursued by the student during high school
3. Marked improvement by the student in scholastic achievement from year to year
4. SAT, ACT, or other entrance examination scores (if required)
5. Indication of the student's special ability: art, music, or leadership
6. Service to the school by the student
7. Service to the community by the student
8. Extracurricular activities pursued by the student: employment, sports, drama/theater, band, choir, publications, school clubs and organizations, academic teams, etc.
9. Attendance record and personal profile for the student
10. Letters of recommendation from the high school principal, counselors, teachers, and others
11. The personal interview (if required)
12. Student essay (if required)

GENERAL INFORMATION

Tech Prep Curriculum

As the world shrinks in an increasingly global environment, there is a growing need for students to emerge from high school prepared to enter colleges, universities, and careers in order to successfully compete in a 21st century community.

Excel TECC Tech Prep programs prepare students for high demand, high skill technical careers in our competitive global economy. Excel TECC follows rigorous education pathways developed, aligned and implemented with college curriculum that emphasize education. Students in Excel TECC programs are met with a fresh approach to education. They are immersed in programs where field professionals present contextual problems they are expected to approach and solve. Students in Excel TECC programs are expected to be business savvy, fiscally responsible, fast thinking and critical evaluators. The faculty demands the best of Excel TECC students in order to develop the competencies and skills necessary to enter two-year or four-year colleges, technical school, or a career. Students in Excel TECC emerge ready to meet 21st century demands.

Students in Excel TECC have the opportunity to pursue college credits through articulation agreements with Cuyahoga Community College, Lakeland Community College, Art Institute of Pittsburgh, Culinary Institute of America, Johnson and Wales, Northwood University, University of Northwestern Ohio, Vatterott College, Universal Tech Institute, and the Art Institute of San Francisco. These articulation agreements lead to credits at the college level.

Graduates of Excel TECC are offered the opportunity to pursue a two- or four-year college degree with articulated credits coupled with the skill set to enter a career in the field of their training. Students participating in Career Technical Education programs in the Excel TECC Consortium have greater potential to be successful in the path of their choosing whether college or career.

Credit Flexibility

Credit Flexibility is designed to broaden the scope of curricular options available to students, increase the depth of study available for a particular subject, and tailor the learning time or conditions needed to complete a high school diploma. Students may earn credits through:

- the completion of courses;
- testing out or otherwise demonstrating mastery of the course content;
- pursuit of one or more "educational options" (e.g. distance learning, educational travel, independent study, internship, after-school program, community service or engagement project, and research).

A student who chooses educational options must inform the school and pre-identify the learning outcomes. The school and student will mutually agree upon the criteria for earning credit.

A student interested in credit flexibility should contact the assigned counselor for more specific information. Participation in the credit flexibility program requires a completed application, administrative approval, and an agreed-upon educational options contract.

Dual Credit

Improving the educational attainment of Ohio citizens is key to ensuring the state's long-term success. Therefore, the state has committed significant resources across the education continuum to develop and implement strategies to address this critical issue. College Credit Plus replaces the Post Secondary Enrollment Options program as of the 2015-2016 school year. The specified courses offered at the Mayfield High School by a certified instructor will be the same as those offered on the campus of Lakeland Community College.

The program is open to students in grades 7-12 who are able to meet specific qualifications determined by the state, which include receiving a remediation free overall score on a college readiness exam, such as the ACT, SAT or Compass.

To participate, students must be enrolled in both college and high school. The student will earn transcripted college and high school credit *upon successful completion of the course*. These credits are acknowledged at public Ohio colleges and universities. Students are responsible for providing intent to the counseling office by March 30th of the prior school year and for taking and earning accumulative passing points for the necessary end of course exams at the high school, which act as a graduation requirement. Three or more semester credits will constitute as one Carnegie unit of high school credit. A student may not take more than 30 college credit hours per year or 120 college credit hours throughout the four years of high school. Students will earn letter grades from the CCP course. Grades will be weighted on a 5 point scale. It will be reflected within the high school transcript and calculated into the grade point average.

The student will have an Institution of Higher Learning Advisor and will meet at least once prior to the institution's effective no-fault course drop out date. An informational meeting for parents and students will be offered at the high school and specifics can be found on the school website.

In regards to decision making, it is important to take into account learning style, pace, rigor, weighting and future college applications. Therefore, it is necessary to seek advice from your high school guidance counselor.

15 credit Pathway – Lakeland Community College - Dollar amount per credit hour and textbooks provided by the school district (contingent upon passing grade, or repayment required.)

30 Credit Pathway – Lakeland Community College - Dollar amount per credit hour and textbooks provided by the school district (contingent upon passing grade, or repayment required.)

PATHWAY

Course	Location	Semester Hours	Equivalent	Pathway
ENG 1110 & ENGL 1120	MHS	6	Core English	15 Credit Hour Pathway
POLS 1300 or ECON 1150	LCC	3	X	
HUMX 1100 or SOCY 1150	LCC	3	X or Sociology	
PSYC 1500 or COMM 1000	LCC	3	AP Psychology or Communication	
Math 1650 & MATH 1700	*LCC*	*4 & 3*	*Math 4*	30 Credit Hour Pathway Pick One Math Sequence Block and
Math 1550 & MATH 1650	*LCC*	*4 each*	*AP Stats & Math 4*	
GEOG 1100 & GEOG 1200	*LCC*	*4 each*	*X*	Pick one Science Sequence Block 30 Credit Hour Pathway
PHYS 1500	LCC	3	Astronomy	
BIOL 1140	LCC	4	X	
BIOL 1010 & BIOL 1020 & BIOL1030	LCC	3 each	Biology, Biology & Energy and the Environment	
CHEM 1100	LCC	4	Chemistry	
BIOL 1510 & BIOL 1520	LCC	4 each	AP Biology	*Science Majors*
CHEM 1500 & CHEM 1600	LCC	5 each	Chemistry	
PHYS 1610 & PHYS 1620	LCC	5 each	Physics & AP Physics	

COURSE SELECTION RULES AND REGULATIONS

1. **Minimum schedule load** – A minimum schedule of 5.75 credits per year for freshmen and sophomores **is required and 6.0 credits per year for juniors and seniors**. A student in grades 10-12 must be carrying a minimum of 6 credits to be eligible to select one course on a pass/no pass basis. No courses required for graduation may be taken pass/no pass. Honors and Advanced Placement classes may not be selected for pass/no pass. **Please refer to the student handbook for other details of the pass/no pass program.**

2. **Promotion** – The following minimum credit accumulation is in effect for a student to be promoted to the next grade level:

Sophomore homeroom	5.00 credits accumulated
Junior homeroom	10.50 credits accumulated
Senior homeroom	15.50 credits accumulated (if at the end of the first semester a student passes enough subjects and is enrolled in sufficient courses to graduate, he will be classified as a senior and become a candidate for graduation).

3. **Transcripts** – It is the student's responsibility to check his/her transcript to make sure all requirements for graduation are being fulfilled. Credit evaluations are completed through the Counseling Department during the scheduling appointments.

4. **Schedule Changes** – Schedule changes will be made for the following reasons: insufficient credit, incorrect placement, other courses needed for graduation, or electives options. Schedule changes will not be made for the following reasons: moving a class from one period to another, getting an eighth period study hall, moving a lunch period to another period or teacher preference. Schedule changes are also contingent upon class size and student performance. Students have 7 days after the start of a semester to add a course or drop a course without a withdraw/fail grade.

   Students earning a letter grade of A, B, or C at the end of the first semester may NOT drop a year-long course unless there are mitigating circumstances, such as a different course is needed for graduation, and that course cannot be scheduled at any other time.

   Students earning a D (60-69), and whose grades are trending down, must schedule a meeting with the teacher and the appropriate counselor (or administrator). If it is determined that it is in the best interest to drop the course, the course will be dropped from the student's schedule only after all the proper paperwork has been completed through the counseling office.

5 . **Grading Scale**

Grade	Percent	
A	93	100
A-	90	92
B+	87	89
B	83	86
B-	80	82
C+	77	79
C	73	76
C-	70	72
D+	67	69
D	63	66
D-	60	62
F	00	59

6. **Grading system -** Grade point values are as follows:

Letter Grade	Regular	Honors	Advanced Placement
A	4.0	4.5	5.0
A-	3.7	4.125	4.7
B+	3.3	3.750	4.3
B	3.0	3.375	4.0
B-	2.7	3.00	3.7
C+	2.3	2.625	3.3
C	2.0	2.35	3.0
C-	1.7	1.875	2.7
D+	1.3	1.300	1.3
D	1.0	1.00	1.0
D-	0.7	.700	0.7
F	0.0	0.000	0.0

7. **Semester examinations –** Semester examinations shall be given in all courses giving 0.5 unit of credit for a semester's work. Seniors who have an "A" (90%) for both grading periods second semester are excused from the second semester exam. No other students are excused from semester examinations. Anyone not reporting for a scheduled final examination (January and June), without prior permission, will receive an F for the course. Any exception will be made at the discretion of an administrator.

8. **Semester Grades -** Semester grades are determined by using the student's numerical average. The sum of the first grading period average (multiplied by 2), the second grading period average (multiplied by 2) and the semester exam grade is divided by five. This numerical average is used as the student's semester grade. In unusual circumstances when a student has earned a very low percentage grade for one grading period, the teacher, school counselor, and appropriate administrator will design an alternative method for determining the semester grade. Semester grades in courses that do not give a final exam are determined by using the student's numerical average. The sum of the first grading period average and the second grading period average is divided by two. This numerical average is used as the student's semester grade.

9. **Advanced Placement Courses – All students enrolled in Advanced Placement courses are required to take the Advanced Placement exam in May.** Students taking the AP Exam will be excused from taking a final exam during the second semester. The fourth grading period grade will be used as the final exam grade. If a student refuses to take the Advanced Placement Exam, then the "AP" designation will be removed from the title of the course, the weighting will be removed from the calculation of the Grade Point Average, and the student will need to take the final exam for the course. The Advanced Placement test cost approximately $90.00

10. **Report cards** – The district utilizes electronic report cards, which provide students and parents the pupil's achievement and attendance record.

11. **Principal's List and Honor Roll** – A student who has a 3.75 GPA or better for a grading period earns a place on the Principal's List. A student who has a 3.00 - 3.7499 GPA for a quarter makes the Honor Roll. Students receiving a failing grade in any subject will not be eligible for the Honor Roll or Principal's List. Students with special needs whose services (e.g. speech, learning center, etc.) prevent them from taking 5.75 credits may appeal to the building principal for a review of their case. If the facts warrant, those students will be exempted from the 5.75 credit requirement.

12. *__Fees__ – A fee is assessed in most courses in which workbooks and practice sets are required. Supplementary readings or consumable supplies are necessary. Fees for any courses listed are the previous year's fees and serve only as an estimated cost for the upcoming school year. Several supplemental charges may be assessed above and beyond the course fees listed. Some items are purposely not included in course fees. For example, goggles for science class can be used year after year if properly maintained; an older sibling may have already purchased paperbacks; students may want to use different qualities of materials in industrial arts projects; etc. Updated fees for all courses are kept on file in the curriculum office.

*If school fees are not up to date on payment, school dances and graduation will be impacted.

13. **School Day** – The school day consists of 8 periods. One period must be set aside for lunch; therefore, students will have seven periods to work with in planning course selections.

14. **Athletic and extracurricular eligibility –** The report card is the school's report to the students and parents, giving the pupil's achievement and attendance record. To be eligible, a student in athletics and extracurricular activities must have earned passing grades in a minimum of five, one-credit courses, or the equivalent, in the preceding grading period; have no failing grade in any subject during the previous grading period; and earn a minimum grade point average of 1.5 for the nine weeks prior to the desired extracurricular activity**. It is the student's responsibility to be aware of eligibility rules.**

    NOTE: Extracurricular is defined as any activity that is not a scheduled and graded part of the school day. Please see the student handbook for more details concerning eligibility

15. NCAA College Requirements: A student who plans to attend a Division I or II college, or a college with Division I or II athletics, and who plans to participate in athletics at that school must complete a core curriculum of courses in order to be eligible for athletic participation. The core curriculum consists of courses in the following areas:

Division I (16 core courses required)	Division II (16 core courses required)
4 years of English	3 years of English
3 years of mathematics (Algebra 1 or higher)	2 years of mathematics (Algebra 1 or higher)
2 years of natural/physical science (1 year of a lab science class)	2 years of natural/physical science (1 year of a lab science class)
1 year additional English, mathematics or natural/physical science	3 years additional English, mathematics or natural/physical science
2 years of social science	2 years of social science
4 years additional courses from any area above, foreign language or nondoctrinal religion/philosophy	4 years additional courses from any area above, foreign language or nondoctrinal religion/philosophy

Test Scores: Division I has a sliding scale of test scores and grade-point averages. See your counselor for details. Division II has a minimum SAT score of 820 or ACT sum score of 68 (total English, mathematics, reading, and science scores). Note: All SAT and ACT scores must be reported directly to the NCAA Initial-Eligibility Clearinghouse by the testing agency. Test scores that appear on transcripts will not be used. When registering for the SAT or ACT, use the Clearinghouse code of "9999" to make sure the score is reported directly to the Clearinghouse.

Grade-Point Average: **Only core courses** are used in the calculation of the grade-point average. Make sure you look at the high school's list of NCAA-approved core courses on the Clearinghouse Web site. See your counselor for your grade-point average and to check if a particular high school course is NCAA approved. To register at the NCAA Website, visit www.eligibilitycenter.org.

All students must be determined to be eligible by the NCAA Clearinghouse. This requires an official transcript. There is no other way to determine eligibility. See your counselor about the Clearinghouse.

CAREER INFORMATION

ARTS and COMMUNICATION CAREER CLUSTER

Is This You?

- Do you have artistic ability?
- Can you work accurately with detailed information?
- Do you visually like to express your feelings and ideas?
- Can you work skillfully with your hands?
- Do you have the ability to work creatively with large groups of people?
- Are you creative and innovative?
- Do you like to observe your surroundings?
- Do you have clear written and verbal communication skills?
- Do you enjoy working with a variety of media?

If you answered YES to most of these questions, then you may be interested in the Arts and Communication Career Cluster described below.

The Arts and Communication cluster includes programs of study related to humanities and performing, visual, and media arts. It includes many jobs in a variety of work settings from corporations, theaters, radio or television stations, advertising or architecture firms, art studios, museums, sets, to your own business office or art studio.

Workers in this group create, act, direct, write, and produce visual or auditory materials for entertainment, business and educational purposes.

People in this cluster area may perform on stage or work behind the scenes for a production, show, or company training class or corporate event. They also may create original works of art, restore or edit them to further the artists' expression or interpretation of ideas.

In the Course Catalog, applicable courses are listed with a Career Code of "A."

SAMPLE CAREER OPPORTUNITIES FOR ARTS AND COMMUNICATION BY EDUCATIONAL LEVEL

HIGH SCHOOL GRADUATE	TECHNICAL TRAINING OR 2-YEAR COLLEGE	4-YEAR COLLEGE AND BEYOND
Photographer Assistant	Darkroom Technician	Magazine Editor
Layout Artist	Journalist	Public Relations Writer
Disc Jockey	Book Cover Designer	Animator
Merchandise Display Operator	Illustrator	Art/Technology Teacher
Sign Maker	Layout/Paste-up Artist	Producer
Visual Artist	Interior Decorator	Artist
Furniture Refinisher	Multimedia Specialist	Film Maker
Furniture Manufacturer	Photographer	Graphics Designer
Wood Pattern and Model Maker	Recording Studio Assistant	Foreign Language Interpreter
Building Tradesperson	Sound Engineer	Ceramics Engineer
Welding Artist	Printer	Corporate Trainer
Kiln Operator	Copywriter	Museum Curator
Ceramic Molder	Desktop Publishing	Print Maker
Cabinet Maker	Packaging Designer	Interior Decorator/Designer
Theater Set Crew	Technical Illustrator	Construction Manager
	Museum Technician	Architect
	Industrial Engineering Technician	Journalist
	Mechanical Drafter	Industrial Designer
	Precision Woodworker	Landscape Designer
	Computer Assisted Drafter	Home Appliance Designer
	Computer Assisted Drawing Engineer	Automotive Designer
	Construction Machinery Operator	Graphic Artist
	Tool Designer	Advertising Executive
	Mechanical Engineering Technician	Theater Set Manager
	Silk Screen Artist	Radio/Television Producer
	Theater Set Designer	Columnist
	Screen/Television Script Writer	
	Technical Writer	
	Library Assistant/Technician	

BUSINESS and MANAGEMENT CAREER CLUSTER

Is This You?

- Is it important for you to have day-to-day contact with the public?
- Are you able to use logical thinking and personal judgment to perform a variety of tasks?
- Are you able to make decisions based on your own judgment and company policy?
- Are you able to follow instructions without close supervision?
- Do you like to sell your ideas to audiences?
- Do you like to work with data to support your ideas?
- Are you able to deal effectively with people?
- Are you able to change work activities frequently?
- Do you like to oversee projects from beginning to completion?

If you answered YES to most of these questions, then you may be interested in the Business and Management Career Cluster described below.

Business careers include a variety of jobs in areas related to administration and management as well as marketing, finance, accounting, and data processing.

Workers in this group use mathematical and analytical skills to design financial systems and interpret records, and communication skills to supervise and work with others, locally, nationally, and globally. Others set policies and priorities as well as participate in marketing and sales activities.

In the Course Catalog, applicable courses are listed with a Career Code of "B."

SAMPLE CAREER OPPORTUNITIES FOR BUSINESS AND MANAGEMENT BY EDUCATIONAL LEVEL

HIGH SCHOOL GRADUATE	TECHNICAL TRAINING OR 2-YEAR COLLEGE	4-YEAR COLLEGE AND BEYOND
Accounting Clerk	Administrative Assistant	Accountant/CPA
Auctioneer	Auditing Clerk	Advertising Manager
Bank Teller	Bookkeeper	Air Traffic Controller
Bill Collector	Chef/Caterer	Auditor
Cashier	Computer Networker	Bank Examiner
Courier	Computer Programmer	Business Investment Broker
Customer Service Representative	Cost Estimator	Business Manager
Dispatcher	Credit Analyst	Business Education Teacher
File Clerk	Food Service Manager	Buyer
Food Service Staff	Insurance Agent	City Manager
General Office Clerk	Loan Officer	Economist
Hotel Clerk	Medical Records Person	Entrepreneur
Postal Worker	Medical Secretary	Estate Planner
Receptionist	Retail Manager	Financial Analyst
Retail Salesperson	Travel Agent	Financial Planner
Telephone Operator	Underwriter	Hospital Administrator
Travel Guide		Labor Relations Director
Word Processor		Marketing Director
		Market Research Analyst
		Personnel Director
		Recreations Projects Director
		Securities Broker
		Stockbroker
		Urban Planner

ENVIRONMENTAL AND AGRICULTURAL SYSTEMS CAREER CLUSTER

Is This You?

- Do you enjoy learning how nature and different environments work?
- Do you like being outside?
- Do you like to learn about how foods and other products arrive at your table?
- Can you use math and science skills as they relate to the functions of the Earth?
- Do you have strong science skills such as chemistry, physics, and geology?
- Would you like to work with and manage the population and care of animals?
- Do you like to work with machinery to improve the appearance of lawns or recreation areas, or work on farms?
- Do you like to creatively solve problems?

If you answered YES to most of these questions, then you may be interested in the Environmental and Agricultural Systems Career Cluster described below.

The Environmental and Agricultural Systems Career Cluster involves programs of study related to the environment and agriculture. Careers include those in agriculture, earth sciences, environmental studies, fisheries management, forestry, horticulture, and wildlife management.

Workers within these career fields manage, develop, protect, and improve natural habitats for wildlife, study methods and practices to maintain and increase the nation's agricultural productivity, improve strategies of raising crops or animals, identify and analyze sources of pollution, collect and synthesize data from atmospheric monitoring, meteorological and mineralogical information, consult with farmers, food companies or corporations concerning environmental standards, study tornados, volcanoes, and other natural phenomenon and design environmentally friendly living space for humans and wildlife.

Those who work in this career area use many skills in science, mathematics, data collection, and problem solving. Strong communication and reasoning skills are also foundations for success.

In the Course Catalog, applicable courses are listed with a Career Code of "F."

SAMPLE CAREER OPPORTUNITIES FOR ENVIRONMENTAL AND AGRICULTURAL SYSTEMS BY EDUCATIONAL LEVEL

HIGH SCHOOL GRADUATE	TECHNICAL TRAINING OR 2-YEAR COLLEGE	4-YEAR COLLEGE AND BEYOND
Animal Trainer	Agricultural Commodity Grader	Agricultural Economist
Aquatic Life Laborer	Arborist	Agricultural Engineer
Deckhand	Assayer	Agronomist
Dog Groomer	Environmental Technician	Aquaculturalist
Farm Machine Operator	Farmer	Botanist
Golf Course Maintenance Worker	Fisher	Earth Scientist
Greenhouse Maintenance Worker	Floral Designer	Environmental Health Inspector
Horse Trainer	Florist	Extension Service Specialist
Irrigator	Food Science Technician	Farm Animal Veterinarian
Lawn Service Worker	Geological Data Technician	Food Specialist
Logger	Geological Sample Test Technician	Forester
Nursery Worker	Greenhouse Manager	Forest Urban Ecologist
Plant Breeder	Greens keeper	Geographer
Turf Sod Producer	Inspector	Geologist
Veterinary Attendant	Land Appraiser	Geophysicist
	Landscape Construction	Golf Course Superintendent
	Landscaper	Horticulturist
	Logging Operations	Land Development Consultant
	Meteorological Technician	Landscape Architect
	Park Naturalist	Logging Superintendent
	Park Ranger	Meteorologist
	Petroleum Technician	Oceanographer
	Stadium Grounds Crew	Range Manager
	Topographic Technician	Soil Conservationist
	Turf Manager	Urban Forester
	Wood Technologist	Volcanologist
		Water Conservationist
		Wildlife Manager

HEALTH SERVICES CAREER CLUSTER

Is This You?

- Can you respond quickly and clearly in emergencies?
- Can you work with details?
- Do you have fine motor skills?
- Do you have stamina to work long hours?
- Can you perform multiple tasks at one time?
- Are you organized with a good memory?
- Do you have strong biology, chemistry, and mathematics skills?
- Do you work well with people?
- Are you able to work physically close to people?
- Are you interested in nutrition, anatomy, and physiology?
- Do you have strong memorization and problem solving skills?

If you answered YES to most of these questions, then you may be interested in the Health Services Systems Career Cluster described below.

The Health Services career cluster includes programs of study related to the promotion of health as well as the treatment of injuries, condition, and disease. It includes many jobs in a variety of work settings from hospitals, private physician's offices, outpatient facilities, gyms and sports facilities, and patients' homes.

Workers in this group include those working in medicine, dentistry, nursing, therapy and rehabilitation, nutrition, fitness, and hygiene. People in this cluster may perform or assist with surgery, take and read X-rays, help rehabilitate a patient's physical injury or condition, counsel those suffering from physical or mental disease, conduct assessments for weight loss and nutrition, assist the elderly with daily tasks, respond to emergencies, and treat victims.

Compassion and empathy are important personal traits, as well as the ability to balance many tasks and responsibilities. Knowledge in biology, anatomy, chemistry, communication, and psychology are foundations for success in this career cluster area.

In the Course Catalog, applicable courses are listed with a Career Code of "H."

SAMPLE CAREER OPPORTUNITIES FOR HEALTH SERVICES BY EDUCATIONAL LEVEL

HIGH SCHOOL GRADUATE	TECHNICAL TRAINING OR 2-YEAR COLLEGE	4-YEAR COLLEGE AND BEYOND
Dispensing Optician	Cardiology Technologist	Anesthetist
Electroneuodiagnostic Technologist	Dental Hygienist	Dentist
Home Health Aide	Echo cardiographer	Dermatologist
Licensed Practical Nurse	Emergency Medical Technician	Dietician
Medical/Dental Office Manager	Health Information Technician	Epidemiologist
Medical Records Technician	Histology Technician	Exercise Physiologist
Orderly	Nuclear Medicine Technologist	Geriatrician
	Paramedic	Immunologist
	Phlebotomist	Internist
	Physician Assistant	Medical/Clinical Laboratory Technologist
	Radiologic Technologist	Medical Researcher
	Stress Test Technician	Nurse-Midwife
	Surgical Technologist	Nutritionist
	Veterinary Assistant	Occupational Therapists
		Optometrist
		Pathologist
		Pediatrician
		Pharmacist
		Pharmacologist
		Psychiatrist
		Recreation Therapist
		Registered Nurse
		Surgeon
		Veterinarian

HUMAN SERVICES CAREER CLUSTER

Is This You?

- Do you want to work for the benefit of helping others?
- Can you work accurately with detailed information?
- Can you work independently?
- Are you compassionate?
- Can others count on you?
- Do you have excellent physical condition and stamina?
- Do you have knowledge of basic mathematics and biology?
- Do you have clear verbal skills?
- Are you interested in how the government, social, and legal systems work?
- Can you use judgment and reasoning to cope with emergencies such as illnesses, accidents, and interrupted service?
- Can you direct, manage, or supervise the activities of others?

If you answered YES to most of these questions, then you may be interested in the Health Services Systems Career Cluster described below.

Human service careers include a variety of jobs in law and legal services, community support areas such as fire and city services, education, and personal services such as cosmetology and home health aides.

Workers in this group may teach children, teens, or adults, save persons experiencing an emergency, work with expectant mothers or welfare recipients, represent clients in a court of law, work within the government system as a public official, take care of ill people in their homes, and provide personal services such as child care, food service, recreation, and counseling.

Knowledge in psychology, biology, and government, and strong communication skills and empathy are foundations that will lead to occupational success in this cluster area.

In the Course Catalog, applicable courses are listed with a Career Code of "P."

SAMPLE CAREER OPPORTUNITIES FOR HUMAN SERVICES BY EDUCATIONAL LEVEL

HIGH SCHOOL GRADUATE	TECHNICAL TRAINING OR 2-YEAR COLLEGE	4-YEAR COLLEGE AND BEYOND
Bus Driver	Addiction Counselor	Athletic Coach/Trainer
Certified Nurse's Aide	Agricultural Specialist/County Extension Agent	Audiologist
Drapery Installer	Barber	Child Psychologist
Educational Support Personnel	Correction Officer	Corporate Trainer
Exercise Instructor	Cosmetologist	Counselor (Mental Health/School)
Fire Inspector	Daycare Operator	Economist
Geriatric Aide	Dental Assistant	Federal Bureau of Investigation (FBI)
Home Health Aide	Exercise Trainer	Gerontologist
Interpreter	Firefighter	Government Official
Paper Hanger	Flight Attendant	Judge
Pet Controller	Funeral Director	Lawyer
Playground Supervisor	Intake Counselor	Librarian
Security Guard	Interpreter for the Deaf	Lobbyist
Teacher Aide	Manicurist	Minister/Priest/Rabbi
Waiter/Waitress	Paralegal Assistant	Psychologist
Waste Management Technician	Parent/Student Advocate	Parole Officer
Weight Reduction Specialist	Personal Physical Trainer	Parks and Recreation Guide
	Police Officer	Probation Officer
	Private Investigator	School Administrator
	Preschool/Nursery Teacher	School Psychologist
	Probations Officer	Social Worker
	Recreation Worker	Teacher
	Sheriff's Deputy	
	Social Service Technician	
	Youth Director	

INDUSTRIAL AND ENGINEERING SYSTEMS CAREER CLUSTER

Is This You?

- Do you like to know how things work?
- Can you dissect smaller pieces from the big picture?
- Do you like to design new objects or machines?
- Can you work with details?
- Do you like to create ways a machine could improve its function?
- Can you use mathematics and physics concepts to solve problems?
- Do you enjoy problem solving and creative thinking?
- Do you like to work with your hands?
- Do you like to use technology to create programs, solve problems, design objects or structures?

If you answered YES to most of these questions, then you may be interested in the Industrial and Engineering Career Cluster described below.

Industrial and Engineering Systems involves programs of study related to the technologies necessary to design, develop, install, or maintain physical systems.

Careers include those in engineering and related technologies, mechanics and repair, transportation, manufacturing technology, precision production, and construction.

Workers within this career area design new products or improve existing products or systems, create new models of automobiles and other forms of transportation, build and repair computers, write software programs, precision weld, construct buildings, homes and transit systems, use a computer to simulate and test how a machine, structure, or system operates, read and conform to design standards, and create solutions to functional, structural, mechanical, or technological problems.

Those who work in this career area use many skills in mathematics, physical science, problem solving, logic, and communication.

In the Course Catalog, applicable courses are listed with a Career Code of "E."

SAMPLE CAREER OPPORTUNITIESFOR INDUSTRIAL AND ENGINEERING SYSTEMS BY EDUCATIONAL LEVEL

HIGH SCHOOL GRADUATE	TECHNICAL TRAINING OR 2-YEAR COLLEGE	4-YEAR COLLEGE AND BEYOND
Assistant Drafter	Airplane Mechanic	Aerospace Engineer
Automotive Technician	Calibration and Instrumentation Technician	Airport Engineer
Carpenter	Electronic Equipment Repairer	Architect
Concrete Mason	Electronics Engineering Technician	Chemical Engineer
Construction Worker	Experimental Welder	Civil Engineer
Crane Operator	Fire-Protection Engineering Technician	Computer Programmer/Software Developer
Die Designer Apprentice	Heating, Air Conditioning and Refrigeration	Construction Site Supervisor
Electrician (Apprentice)	Hydraulic Repairer	Electrical Engineer
Glazier	Laser Technician	Energy Systems Designer
Ironworker	Machinist	Industrial Engineer
Lathe Operator	Millwright	Mapping Scientist
Precision Welder	Research Electrician	Mechanical Engineer
Roofer	Small Engine Mechanic	Metallurgist
Tool and Die Maker	Surveyor	Nuclear Engineer
Truck Driver	Technical Illustrator	Petroleum Engineer
	Tool Programmer	Quality Control Manager
		Stress Analyst
		Structural Engineer
		Surveyor Supervisor
		Systems Analyst
		Systems Engineer
		Welding Engineer

APPLIED ARTS

The Applied Arts at Mayfield High School

The Applied Arts Department offers courses in three different areas. The three areas are:
Business and Computer Education
Family and Consumer Science

The courses offered are listed below by program area.

Business Education Courses

9th Grade

Computer Programming with Visual BASIC*

Computer Programming with Java*

Digital Media Production 1*

Digital Media Production 2*

Information Technology 1*

Information Technology 2*

Technology I*

10th Grade

Accounting

Advanced Digital Media Production

Computer Programming with Visual BASIC*

Computer Programming with Java*

Digital Media Production 1*

Digital Media Production 2*

Entrepreneurship and E-Commerce*

Information Technology 1*

Information Technology 2*

Web Site Design*

Technology I*

*Semester Course

11th Grade and 12th Grade

Accounting

Advanced Digital Media Production

Computer Programming with Visual BASIC*

Computer Programming with Java*

Digital Media Production 1*

Digital Media Production 2*

Entrepreneurship and E-Commerce*

Information Technology 1*
Information Technology 2*

Intro. to Criminal Justice*

Money Management*

Technology I*

Web Site Design*

Family and Consumer Science Courses

9th Grade	10th Grade	11th Grade	12th Grade
Cooking and Creating*	Child Development 1*	Child Development 1*	Chefery 1*
Real Life 101*	Child Development 2*	Child Development 2*	Chefery 2*
	Clothing and Design*	Clothing and Design*	Child Development 1*
	Fashion and Accessories*	Fashion and Accessories*	Child Development 2*
	Food and Fitness*	Food and Fitness*	Clothing and Design*
	International Flavor*	International Flavor*	Fashion and Accessories*
*semester course	Real Life 101*		

Business Education Courses

Accounting

Grades 10-12
Course Number 612
Full Year Course - 1 credit
Prerequisite: None
Estimated Fee: $25.00
Recommended For: College Bound
Career: B,F,P

This course presents the basic principles of accounting and introduces the students to the materials and terminology commonly used. Two manual accounting systems are studied progressing from the general journal and ledger to a system using special journals and ledgers. Students will utilize the accounting cycle for a small services business organized as a sole proprietorship. Bank services, payroll records, taxes, partnerships and corporations are among the topics studied.

Accuracy, neatness, completeness and independence are emphasized. This class is highly recommended for students planning to major in business in college.

Computer Programming with Visual BASIC

Grades 9-12
Course Number 635
Semester Course - 0.5 credit
Prerequisite: Mathematics 1
Estimated Fee: $15.00
Recommended For: College Bound/Technical Education
Career: A,B,E,F,H,P

This course provides the student with an opportunity to utilize the micro-computer in the solution of both mathematical and non-mathematical problems. The student is introduced to the computer language called Visual BASIC and is taught how to program in this object-oriented language in order to communicate with a micro-computer. The prerequisite, Mathematics 1, may be taken concurrently.

Computer Programming with Java

Grades 9-12
Course 636
Semester Course - 0.5 credit
Prerequisite: Computer Programming with Visual BASIC
Estimated Fee: $15.00
Recommended For: College Bound/Technical Education
Career: A,B,E,F,H,P

In Computer Programming with Java students learn the Java programming language. This is a hands-on course in which students write computer programs in one of the most popular programming languages in the world.

Digital Media Production 1

Grades 9-12
Course Number 618
Semester Course - 0.5 credit
Prerequisite: None
Estimated Fee: $25.00
Recommended For: College Bound/Technical Education
Career: A,B,E,F,H,P

YouTube was one of the most visited Web sites in 2010, but Vimeo made *Time Magazine's* list of top ten sites. Creating video is an essential 21st century skill, and Digital Media Production 1 is the class where students will learn what it takes to make creative and professional-looking videos. Students will use video cameras to learn basic camera shots, audio and green screen techniques.

Digital Media Production 2

Grades 9-12
Course Number 619
Semester Course - 0.5 credit
Prerequisite: Digital Media Production 1
Estimated Fee: $25.00
Recommended For: College Bound/Technical Education
Career: A,B,E,F,H,P

The students who sign up for this course must have successfully completed Digital Media Production 1. The Digital Media Production 1 course gave students just a small glimpse into the world of video making. In this course, students will have the opportunity to use their media skills and creativity to create professional quality media.

Advanced Digital Media Production

Grades 9-12
Course Number 620
Full Year Course - 1 credit
Prerequisite: Digital Media Production 2
Estimated Fee: $40.00
Recommended For: College Bound/Technical Education
Career: A,B,E,F,H,P

The students who sign up for this year-long class must have successfully completed Digital Media Production 1 and 2. Students will spend the year creating media that can be posted to the Mayfield Web site, seen on Channel 22, or sent out for the cyber world to see. This course will allow students to use the fundamental skills they have developed and dazzle people with their creative style.

Entrepreneurship and E-Commerce

Grades 10-12
Course Number 616
Semester Course - 0.5 credit
Prerequisite: None
Estimated Fee: $23.00
Recommended For: College Bound/Technical Education
Career: A,B,F,P

This course is offered to give students the information and decision-making skills necessary to plan, start, and market a small business and make it grow. The course will incorporate an interactive, real-world business that combines entrepreneurship, marketing, advertising, E-commerce, and security. This course will study changes in the economy and how businesses are responding, changing, and evolving.

Information Technology 1

Grades 9-12
Course Number 632
Semester Course - 0.5 credit
Prerequisite: None
Estimated Fee: $21.00
Recommended For: College Bound/Technical Education
Career: CORE

Information Technology 1 students will be introduced to Microsoft Office 2007. This course is designed to teach students how to use Word, Excel, Access, PowerPoint, and Publisher. New technologies will be introduced including podcasting, sound, and video editing.

Information Technology 2

Grades 9-12
Course Number 633
Semester Course - 0.5 credit
Prerequisite: Information Technology 1
Estimated Fee: $21.00
Recommended For: College Bound/Technical Education
Career: A,B,E,F,P

Information Technology 2 students will explore the advanced features of multiple software packages including Microsoft Office 2007 and other Windows applications. Graphic design, Web publishing, sound, video, and podcasting are included. Students will integrate all the latest technologies in a project-based environment.

Introduction to Criminal Justice

Grades 11-12
Course Number 614
Semester Course - 0.5 credit
Prerequisite: None
Estimated Fee: $25.00
Recommended For: College Bound/Technical Education
Career: A,B,F,P

This course will offer students the chance to participate in the current life situations which pertain to civil and criminal law.

The focus is on basic law principles and actual court cases related to civil and criminal offenses, homeland security, law enforcement structure, sentencing, and the appeals process. This course is designed to appeal to students interested in pursuing a career in protective services, forensic sciences, and the law field.

Money Management

Grades 11-12
Course Number 608
Semester Course - 0.5 credit
Prerequisite: None
Estimated Fee: $26.00
Recommended For: College Bound/Technical Education
Career: A,B,F,P

Students need basic survival skills in personal finance before they leave high school. This course will offer such an opportunity for students to know about money before they learn by trial and error.

This class will be practical in its approach to various topics such as basic banking, interest charges on loans and credit cards, buying or leasing an automobile, housing costs, insurance, and investments. Guest speakers will be brought in to give students an opportunity to learn from the experts.

Technology 1

Grades 9-12
Course Number 678
Semester Course - 0.5 credit
Prerequisite: None
Estimated Fee: $27.50
Recommended For: College Bound/Technical Education
Career: A,B,E,F,H,P

Technology 1 is a course that allows students to sample a variety of technology areas for a period of two weeks using a multimedia-driven program. Students will work in pairs in the following modules: Animation, Flight Simulation, Computer-Aided Machining (Lathe), Website Development, Electricity/Electronics, Fluid power, Computer-Aided Machining (Mill), AutoCad, Stress Analysis, Space and Rocketry, Robotics, House Wiring and Video presentation. *(This course satisfies the Technology Requirement).*

Web Site Design for Personal and Business Use

Grades 10-12
Course Number 638
Semester Course - 0.5 credit
Prerequisite: Information Technology 1
Estimated Fee: $10.00
Recommended For: College Bound
Career: A,B,E,F,P

This is a course designed to teach students how to write, design, maintain, and update a Web page. Students will create Web pages using Word, Publisher, Dream Weaver, and HTML. The use of scanners, video cameras, and digital cameras will be utilized in this Web page writing class.

Family and Consumer Science Courses

Cooking and Creating

Grade 9
Course Number 666
Semester Course - 0.5 credit
Prerequisite: None
Estimated Fee: $45.00
Recommended For: College Bound/Technical Education
Career: A,B,F,H,P

This semester course offers students the opportunity to expand their experience in the areas of cooking and sewing. Students will examine a variety of textiles and learn to use the sewing machine. Construction of a project using the sewing machine will conclude the sewing experience. A small additional cost for sewing supplies and projects does apply. Students will have the opportunity to prepare foods using a variety of kitchen equipment. The semester will end with the preparation of an entire meal.

Real Life 101

Grades 9-10
Course Number 664
Semester Course - 0.5 credit
Prerequisite: None
Estimated Fee: None
Recommended For: College Bound/Technical Education Majors
Career: A,B,E,F,H,P

This course is designed to help students explore all aspects of life: personal development, decisions affecting their future, lifestyle options and consequences, relationships with family and friends, marriage, parenting, balancing family and work, dealing with family crisis and managing family living. Students will learn to deal with the realities of life throughout the entire life cycle. The students will benefit from a class that teaches everything from interpersonal skills to practical money management strategies. This course is designed to help students meet the challenges of daily life with confidence.

Child Development 1

Grades 10-12
Course Number 662
Semester Course - 0.5 credit
Prerequisite: None
Estimated Fee: None
Recommended For: College Bound/Technical Education Majors
Career: A,B,F,H,P

This one-semester course focuses on practical problems related to parenting roles and responsibilities, taking responsibility for personal growth within the parenting role, preparing for parenthood, building positive parent-child relationships, using guidance and discipline to promote self-discipline, self-esteem, and socially responsible behavior in children and adolescents, accessing sources of parenting information, support, and assistance and planning ways that families and society can share in nurturing children and adolescents. You will be required to care for a computerized baby for a full weekend.

Child Development 2

Grades 10-12
Course Number 663
Semester Course - 0.5 credit
Prerequisite: Child Development 1
Estimated Fee: None
Recommended For: College Bound/Technical Education Majors
Career: A,B,F,H,P

This course is a continuation of the topics covered in Child Development 1. This course covers the emotional, social, moral, physical, and intellectual development of children ages 3-12. This class consists of surveys, projects, and observation as well as basic classroom work. This would be a great course for anyone who plans to have a career working with children.

Fashion and Accessories

Grade 10-12
Course Number 650
Semester Course - 0.5 credit
Prerequisite: None
Estimated Fee: $25.00
Recommended For: College Bound/Technical Education
Career: A,B

This comprehensive study of clothing and accessories will interest those who are fascinated with trends of the past and projections of the future in the fashion industry. This course is designed for students who have the desire to create. New hand and machine sewing skills will be introduced and used to help develop the students' creativity in fashion and accessories. Projects include: a recycling project, duct tape garment, a piecework wall hanging a weekly accessory challenge, and a sweatshirt.

Clothing and Design

Grades 10-12
Course Number 649
Semester Course - 0.5 credit
Prerequisite: Fashion and Accessories
Estimated Fee: $25.00
Recommended For: College Bound/Technical Education
Career: A,B,E

This more extensive study of clothing construction will complement those students who excelled in their Fashion and Accessories projects. Intermediate construction skills will be further developed and refined to help create and complete two higher-level construction projects. A more concentrated look at figure analysis, pattern selection and basic principles of pattern altering will help the student create individualized projects.

Food and Fitness

Grades 10-11
Course Number 660
Semester Course - 0.5 credit
Prerequisite: None
Estimated Fee: $60.00
Recommended For: College Bound/Technical Education
Career: A,F,H,P

This semester course is a cooking class with an emphasis on preparing healthy meals and lifetime wellness. Lab experiments are supplemented by demonstrations, lectures, readings, speakers, and audiovisuals.

International Flavor

Grades 10-11
Course Number 652
Semester Course - 0.5 credit
Prerequisite: None
Estimated Fee: $50.00
Recommended For: College Bound/Technical Education
Career: A,B,F,H,P

A desire to explore many cultures is a necessary ingredient for this cooking course. The people, culture, lifestyles and cuisine of foreign countries will be studied. The course consists of lab work, demonstrations, written related materials and research of other countries. A strong desire to try new and different foods is recommended.

Chefery 1

Grade 12
Course Number 656
Semester Course - 0.5 credit
Prerequisite: None
Estimated Fee: $50.00
Recommended For: College Bound/Technical Education
Career: A,B,F,H,P

Chefery 1 is a food preparation course with an emphasis on technique and theory. Class time is used for actual preparation of food. The course is designed to touch on many areas of food preparation to help young men and women prepare meals in an independent living situation. We will discuss how our food and diet has changed over time as well as explore the latest food issues that affect Americans. This course must be taken before Chefery 2.

Chefery 2

Grade 12
Course Number 657
Semester Course - 0.5 credit
Prerequisite: Chefery 1 and recommendation
Estimated Fee: $50.00
Recommended For: College Bound/Technical Education
Career: A,B,F,H,P

Chefery 2 is an advanced laboratory course that builds on previous learning. The course consists of lab work, demonstrations, experiments with ingredients and written related materials. Creativity, experimentation and trying new foods and recipes will be part of this course. Some of the units of study include: chocolates and candy making, cakes and cake decorating, grains and super grains.

ENGLISH

English at Mayfield High School

Mayfield High School requires all students to complete four years of English and one semester of a communications course. Advanced Placement and Honors courses will provide the most challenge and are intended for highly motivated students who have a deep interest in advancing their literary analysis and composition skills. Electives offered may be taken for credit but do not apply toward the four year English requirement needed for graduation.

To encourage all students to write effectively and frequently, the English Department is committed to teaching writing as a process of drafting and revising. Upon graduation, students can be assured that they have received intensive instruction and practice to further their writing skills through a variety of written assignments.

To help students become critical thinkers they are exposed to a variety of classics and modern literature. Students are taught how to interact with the text and how to discern inferential meaning in the various genres read.

Required English Courses
(One course required each year)

9th Grade	10th Grade	11th Grade	12th Grade
9 Introduction to Literature and Composition	10 World Literature and Composition	11 American Literature and Composition	12 British Literature and Composition
9 Introduction to Literature and Composition Honors	10 World Literature and Composition Honors	AP English Language and Composition	AP English Literature and Composition

Required Communications Course
(One course required in 10th, 11th or 12th grade)

	10th Grade	11th Grade	12th Grade
	Communications*	Communications*	Communications*
*semester course	News Writing for Electronic Media*	News Writing for Electronic Media*	News Writing for Electronic Media*

Elective Courses

9th Grade	10th Grade	11th Grade	12th Grade
Advantage English 1	Advantage English 2	Creative Writing 1or 2	Creative Writing 1,2,3
	Creative Writing 1	Film Analysis*	Film Analysis*
	Yearbook 1	Yearbook 1 or 2	Yearbook 1 or 2

*semester course

Required English Courses

9 Introduction to Literature Study and Composition

Grade 9
Course Number 131
Full Year Course - 1 credit
Prerequisite: None
Estimated Fee: None
Recommended For: College Bound/Technical Education
Career: CORE

Introduction to Literature Study and Composition is the study of various nonfiction and literary genres. The course is designed to foster an appreciation for the readings as well as to study the fundamentals of composition. Students also will study literary devices, vocabulary, grammar and oral communication. While there are no fees for the course, students will be required to obtain copies of the four major literary works that will be studied during the school year. *Available for dual credit*

9 Introduction to Literature Study and Composition Honors

Grade 9
Course Number 139
Full Year Course - 1 credit
Prerequisite: Recommendation
Estimated Fee: None
Recommended For: College Bound
Career: CORE

Introduction to Literature Study and Composition Honors covers areas of composition, grammar, oral communication, and literature, as does all ninth grade English. The honors class, however, is both accelerated and enriched with regard to content, thus covering more material with more depth. In addition, students are expected to demonstrate in their writing a greater degree of sophistication in content and style.

Moreover, students are expected to work independently and be motivated intrinsically. *Available for dual credit*

10 World Literature and Composition

Grade 10
Course Number 141
Full Year Course - 1 credit
Prerequisite: None
Estimated Fee: None
Recommended For: College Bound/Technical Education
Career: CORE

World Literature and Composition is a survey of world literature, including but not limited to short stories, non-fiction, novels, and drama. Grammar and usage study is included in this course with the goal of improving writing and editing skills. Composition centers on the development of the four basic forms of writing (narrative, descriptive, expository, and persuasive) with an emphasis on developing clearly organized and well-developed multi-paragraph compositions. *Available for dual credit*

10 World Literature and Composition Honors

Grade 10
Course Number 149
Full Year Course - 1 credit
Prerequisite: Recommendation
Estimated Fee: None
Recommended For: College Bound

World Literature and Composition Honors expands the basic areas of literature and composition covered in the regular World Literature and Composition curriculum and proceeds at a more rapid pace. Greater independence is expected of the students in their analysis of literature. In addition, students are expected to demonstrate a greater degree of sophistication in content and style in their writing. Types of compositions include informational, literary analysis, argumentative, and narrative. Grammar is approached as a means of improving composition. *Available for dual credit*

11 American Literature and Composition

Grade 11
Course Number 151
Full Year Course - 1 credit
Prerequisite: None
Estimated Fee: None
Recommended For: College Bound/Technical Education
Career: CORE

American Literature and Composition is a study of American literature. This course spans a wide range of material beginning in the 1600s and concluding with contemporary authors. Students study prominent authors of each literary period with emphasis on significant contributions and historical context of works.

The writing program focuses on research, literary analysis, argumentative, narrative, and informational forms. *Available for dual credit*

AP English Language and Composition

Grade 11
Course Number 159
Full Year Course - 1 credit
Prerequisite: Recommendation
Estimated Fee: AP test registration
Recommended For: College Bound
Career: CORE

With recommendations from and the approval of the College Board, the Advanced Placement English Language and Composition course work models a college composition class.

The curriculum concentrates on argumentation: how to analyze the rhetoric employed by writers and speakers, how to construct successful arguments which synthesize accredited sources, and how to compose successful arguments that draw on personal knowledge and experiences. Promoting an awareness of current events and history, particularly American history, the coursework places a greater emphasis on non-fiction than fiction and analyzes fiction for arguments made by the author. Students enrolled in this course are required to take the A.P. exam in May. *Available for dual credit*

12 British Literature and Composition

Grade 12
Course Number 161
Full Year Course - 1 credit
Prerequisite: None
Estimated Fee: None
Recommended For: College Bound
Career: CORE

British Literature and Composition is a survey of British literature. Emphasis is placed upon the significant literary works and styles of each era. The lives of writers and the historical backgrounds of literary periods are also studied, as well as the history of the English language. Much time is given to the improvement of student composition through expository and persuasive writing, as well as analytical essays. The students' vocabulary is enriched through applied literary study, emphasizing understanding of word meanings rather than rote memorization of definitions.

In addition, language study is targeted through the review of grammar, usage, and mechanics and their application to the writing process. This is a college preparatory course. The course work given and teacher expectations are commensurate with the pre-college level. *Available for dual credit*

AP English Literature and Composition

Grade 12
Course Number 169
Full Year Course - 1 credit
Prerequisite: Recommendation
Estimated Fee: A.P. Test Registration
Recommended For: College Bound
Career: CORE

With recommendations from and the approval of the College Board, the Advanced Placement English Literature and Composition course work models a college composition class.

The curriculum involves both the study and practice of writing and the study of literature. Composition study will encompass the modes of discourse, rhetorical strategies and argumentation, critical analysis of literature, and exposition. The study of literature will include a mix of world, English, and American literature. Students enrolling in this course are expected to take the AP exam in May. *Available for dual credit*

Required English Courses for Excel TECC

11 American Literature and Composition

Grade 11
Course Number 155 or 156
Full Year Course - 1 credit
Prerequisite: Recommendation
Estimated Fee: None
Recommended For: Technical Education
Career: CORE

This course is an eleventh grade English course for students enrolled in career technical programs.

This course is a study of American literature which spans a wide-range of material from early American in the 1600s to the contemporary authors. Students study prominent authors and poets of each literary period with emphasis on significant contributions. Historical and biographical backgrounds are also examined. Additional reading selections include nonfiction material pertinent to the technical field. Refinement of research, writing, and communication skills is pursued.

12 British Literature and Composition

Grade 12
Course Number 165, 166, or 168
Full Year Course - 1 credit
Prerequisite: Recommendation
Estimated Fee: None
Recommended For: Technical Education
Career: CORE

This course is a twelfth grade English course for students enrolled in career technical programs.

The course is a survey of British literature. Emphasis is placed upon the significant literary works and styles of each era. The lives of writers and the historical backgrounds of literary periods are also studied, as well as the history of the English language. Additional reading selections include non-fiction material pertinent to the technical field. Much time is given to the improvement of student composition through expository and persuasive writing, as well as analytical essays and technical writing associated with the technical program. The students' vocabulary is enriched through the study of literary works and technical selections with an emphasis on understanding word meaning rather than rote memorization. In addition, language study is targeted through the review of grammar, usage, and mechanics and their application to the writing process.

Required Communication Courses

(One course required in 10th, 11th, or 12th grade)

Communications

Grades 10-12
Course Number 181
Semester Course - 0.5 credit
Prerequisite: None
Estimated Fee: None
Recommended For: College Bound/Technical Education
Career: CORE

Communications is a course that introduces students to various facets of communication skills. This course will include public speaking, media literacy, and copywriting intended for publication. Public address and research skills will be used along with technology and software-based applications for presentation purposes. Students in this course will be expected to use the writing process to produce speech outlines and drafts, and to develop technical writing. Students gain confidence and poise through class presentations. Students will also focus on the interview process. Computer-based research skills are honed and the writing process is included.

News Writing for Digital Media

Grades 10-12
Course Number 183
Semester Course - 0.5 credit
Prerequisite: None
Estimated Fee: None
Recommended For: College Bound/Technical Education
Career: CORE

This course simulates a professional news writing experience. Students will learn about writing for a specific purpose and be involved in real-world production situations, requiring them to display leadership, time management, and collaboration. The course will explore the writing process and the impact of text features on written communication. Students will learn how to produce an electronic publication that includes pictures, links, articles, and event coverage related to current national and local news, school activities, media reviews, and current topics. Enrollment in this course will require students to work on teams and to meet production deadlines. Students must commit time outside of the school day to complete projects and assignments. This course satisfies the communication graduation requirement and is open to students in grades 10 through 12.

Elective English Courses

Advantage English 1

Grade 9
Course Number 134
Full Year Course – No Credit
Prerequisite – Recommendation
Estimated Fee – None
Recommended For: Supplemental Support

The Advantage English 1 course provides support for identified students who need more development in literacy skills and are not receiving other intervention services. The class is aligned with the English Language Arts State Standards for 9th grade with an emphasis on individual skill development in reading comprehension and written communication. This class is a half-period taken opposite lunch.

Advantage English 2

Grade 10
Course Number 144
Full Year Course - 0.5 credit
Prerequisite – Recommendation
Estimated Fee – None
Recommended For: Supplemental Support

The Advantage English 2 course provides support for identified students who need more development in literacy skills and are not receiving other intervention services. The class is aligned with the English Language Arts State Standards for 10th grade with an emphasis on individual skill development in reading comprehension and written communication. This class is a half-period taken opposite lunch.

Creative Writing 1, 2, and 3

Grades 10-12
Course Number 184, 185 or 186
Full Year Course - 1 credit
Prerequisite: English teacher recommendation
Estimated Fee: None
Recommended For: College Bound
Career: A, B, E, P

Creative Writing is an elective English course open to students in grades 10-12 who take pleasure in experimenting with the written word. The course is designed to give creative students an outlet for imaginative expression of ideas and thoughts. Students gain experience in creating short stories, poems, and essays as well as partake of other class-related creative experiences. The goal of each student in class should be to meet all of the required assignments of the class and submit as much original work as possible for entry/publication in student writing contests and the student publication *Voices Magazine*. Evaluations are based upon collections within individual portfolios, workshop leadership, and intrinsic motivation. All students in Creative Writing are expected to serve on the staff of *Voices*, our school literacy/arts magazine. Students taking the course for the second or third time shall design written projects evincing growth in prose/poetry as well as maturity of style.

Film Analysis

Grades 11-12
Course Number 196
Semester Course - 0.5 credit
Prerequisite: None
Estimated Fee: None
Recommended For: College Bound/Technical Education
Career: A, B, E, P

The film analysis course covers a variety of cinematic concepts from photography and *mise en scene*, to ideology and theory. These concepts will be supported through examples from all over the world and from various time periods in the history of film.

Students must have good analytical skills and be accomplished at critical writing. The course work requires numerous critical written reviews of elements covered in the class.

Reading and Writing Fundamentals

Grades 9-10
Course Number 789
Semester Course - 0.5 credit-1 credit
Prerequisite: Program Admission
Estimated Fee: None

This course is designed to provide remediation to identified students who are simultaneously enrolled in English 9 (English 10). Students will receive instruction in decoding skills, vocabulary development, and comprehension strategies that is aligned with the English 9 (English 10) curriculum. In addition the course will provide a strong foundation for written communication. Students will learn to plan, organize and compose multi-paragraph essays with sufficient supporting details. Revision strategies will be taught as part of the writing process. Instruction in written communication will also be aligned with the English 9 (English 10) curriculum.

Yearbook 1 and 2

Grades 10-12
Course Numbers 194 or 198
Full Year Course - 1 credit
Prerequisite: Recommendation by an English teacher
Estimated Fee: None
Recommended For: College Bound
Career: A, B, E, P

Yearbook provides an opportunity for students to produce an annual publication while recording the school's history in photographs and writing. Students will experience all aspects of producing a yearbook with particular focus on yearbook journalism, layout and design, and photographic composition.

Students will also develop technological skills using InDesign CS3 software. During the course of the school year, students will execute the following: develop a theme, organize and carry out a business campaign, shoot pictures, design page layouts, write copy, captions and headlines, and meet all deadlines. Yearbook students are required to sell advertising during the first quarter in order to stay in the class. Students also cover extracurricular activities during both semesters, including photographing extracurricular activities and sporting events. In addition, in order to prepare for deadlines, on occasion it will be necessary for students to stay after school. Finally, students will acquire experience in sales and be expected to secure advertising from businesses and community members during the first quarter.

FINE ARTS

Fine Arts at Mayfield High School

The Fine Art Department offers course in both Art and Music. The list of available courses for each area is shown below followed by the course descriptions for the courses.

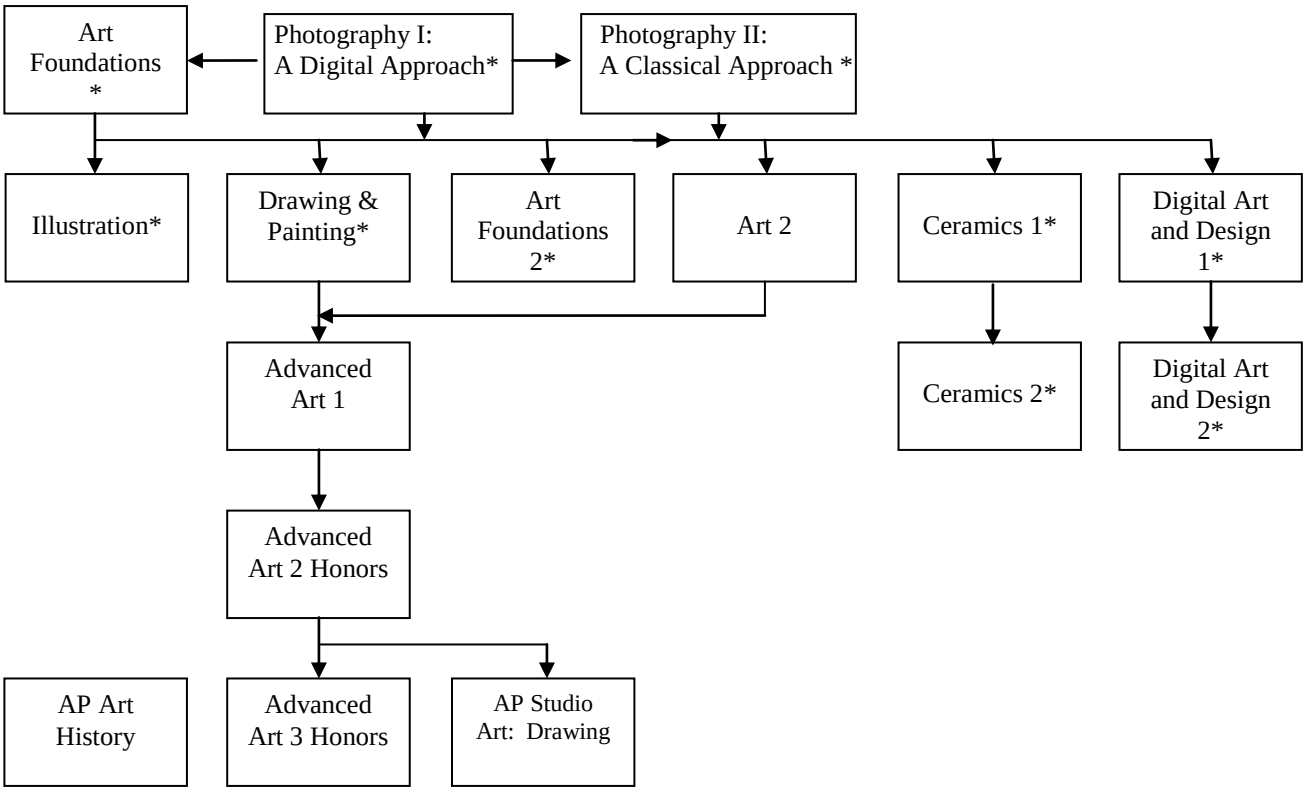
Art at Mayfield High School

The art program is designed for personal enrichment and/or to develop a cohesive art portfolio for college entry. The art courses are planned to provide students with in-depth experience in a variety of art media. Basic skills, art appreciation, and art history will be integrated within each course. The teachers in the art department will offer professional career guidance and direction with the aid of college visits, visiting artists, and portfolio preparation. The classes are all electives and may be used to fulfill college entrance Fine Arts requirements.

Music at Mayfield High School

The curriculum is designed to provide a wide range of musical activities and performance opportunities for students to enrich their lives and contribute to their total education. All classes may be used to fulfill the fine arts credit that is required for acceptance into many colleges and universities.

Art Courses



Music Courses

9th Grade

Chorale

Jazz Band

Marching and Concert Band

Concert Choir

10th, 11th, and 12th Grade

American Pop Music

Chorale

Jazz Band

Marching and Concert Band

Concert Choir

Art Courses

Art Foundations

Grades 9-12
Course Number 706
Semester Course - 0.5 credit
Prerequisite: None
Estimated Fee: $30.00
Recommended For: College Bound/Technical Education
Career: A,B,E,P

This course is designed as a beginning course for the art major or student who is interested in art as an elective to fulfill part of a fine arts requirement. No experience in art is required before taking Art Foundations.

The students will gain a general knowledge of the art studio and the elements and principles of art. Emphasis is placed on exposure to a variety of art materials and techniques in two-dimensional design while developing observational skills. Students with a possible interest in taking Advanced Art 1 are encouraged to take Drawing and Painting in conjunction with Art Foundations.

Drawing and Painting

Grades 9-12
Course Number 707
Semester Course - 0.5 credit
Prerequisite: Art Foundations
Estimated Fee: $30.00
Recommended For: College Bound/Technical Education
Career: A,B,E

Drawing and Painting is for students who may be interested in an Art career. It is recommended that students take Drawing and Painting as a prerequisite for the Advanced Art series. Students will explore a variety of media in the area of drawing. Emphasis will be on both creative problem solving and critical observation. Along with drawing, this course will also introduce students to opaque and transparent painting techniques. Students will paint with tempera, watercolors and acrylics. Emphasis is placed on technique and creative problem solving.

Illustration

Grades 9-12
Course Number 710
Semester Course - 0.5 credit
Prerequisite: Art Foundations
Estimated Fee: $30.00
Recommended for: College Bound/Technical Education
Career: A,B,E

The Illustration course offers exploration in the elements and principles of art and expand those concepts with drawing, printmaking, book arts, sequential illustration, and graphic narratives. The course will focus on letter form and narrative illustration as it relates to imaging and sequence in application and value within the art field. Students will use traditional tools such as pen and ink, watercolor and tempera, linoleum and ink and various papers. Students will relate what they do in class to a commercial arts profession. In researching and preparing work, students will enter other fields, seeing how mathematics, history, science, language art and technology play a role in what they create. Part of the studio experience will include the opportunity to utilize various computer graphics programs, such as Adobe Photoshop and Illustrator. They will see that the Illustration field is not relegated to any one particular style, and that traditional art and modern technology hold equal value.

Art Foundations 2

Grades 10-12
Course Number 708
Semester Course - 0.5 credit
Prerequisite: Art Foundations
Estimated Fee: $20.00
Recommended For: College Bound/Technical Education
Career: A,B,E,P

Art Foundations 2 is a semester course in the regular sequence of classes for students that have an appreciation and enjoyment of art but cannot fit a year long course into their schedules. The course provides the opportunity to utilize the basic skills learned in Art Foundations with more advanced projects. Students will work with different media and techniques including tempera, watercolors, colored pencils charcoal, printmaking, sculpture and mixed media. Emphasis is placed on composition, design and creative solutions to the problems presented. Art History is incorporated as it applies to specific projects.

Art 2

Grades 10-12
Course Number 711
Full Year Course - 1 credit
Prerequisite: Art Foundations
Estimated Fee: $35.00
Recommended For: College Bound/Technical Education
Career: A,B,E,P

Art 2 is a year-long course in the regular sequence of classes that are geared to students interested in art, but have not chosen the Advanced Art program. The course provides the opportunity to utilize the basic skills learned in Art Foundations with more advanced projects. Students will work with different media and techniques including tempera, watercolors, colored pencils charcoal, printmaking, sculpture and mixed media. Emphasis is placed on composition, design and creative solutions to the problems presented. Art History is incorporated as it applies to specific projects.

Advanced Art 1

Grades 10-12
Course Number 718
Full Year Course - 1 credit
Prerequisite: Art Foundations and Drawing/and Painting or Art 2 and Teacher Recommendation
Estimated Fee: $45.00
Recommended For: College Bound/Technical Education
Career: A,B,E,P

Advanced Art 1 is designed for students who may be interested in pursuing a career in art. Since the students are recommended for Advanced Art, there is a higher level of expectation. Be prepared to work hard. Ideas and techniques learned in Art Foundations are expanded upon with an emphasis on creativity. Students are expected to keep a sketchbook of outside work. Some projects in Advanced Art 1 are: contour line still life, landscape drawing, self and creative portraits, printmaking, and figure drawings. Art history, criticism and aesthetics are incorporated into the program to encourage students to critique, evaluate, and appreciate art. Grades are determined by development of skills, creativity and effort. *Although it is not imperative, students are encouraged to take Advanced Art 1 as sophomores to complete the advanced art series by the end of their senior year.*

Advanced Art 2 Honors

Grades 11-12
Course Number 719
Full Year Course - 1 credit
Prerequisite: Advanced Art 1 and Teacher Recommendation
Estimated Fee: $50.00
Recommended For: College Bound/Technical Education
Career: A,B,E,P

Advanced Art 2 Honors is designed for students who have an understanding of artistic media and techniques. Emphasis is placed on creativity and critical analysis as a series of problems are presented requiring thoughtful and innovative solutions. New media techniques, such as acrylic paints and scratchboard, are introduced. Emphasis is placed on advanced use of color theory, composition and design. Art history, criticism and aesthetics are incorporated into the program to encourage students to critique, evaluate and appreciate art. Grades are determined by ability, creativity and effort. *Advanced Art 2 is an honors class with weighted grades; therefore, the demands and requirements are greater than in previous art courses.*

Advanced Art 3 Honors

Grade 12
Course Number 729
Full Year Course - 1 credit
Prerequisite: Advanced Art 2 and Teacher Recommendation
Estimated Fee: $50.00
Recommended For: College Bound/Technical Education
Career: A,B,E,P

Advanced Art 3 Honors is designed for students to continue to develop and perfect their talents. As the course progresses, increasing emphasis is placed on the completion of a comprehensive portfolio. Students continue to work in most of the basic media, but are encouraged to develop media to its potential with importance placed on individuality and creativity. Art history, criticism and aesthetics are incorporated into the program to encourage students to critique, evaluate and appreciate art. Grades are determined by ability, creativity and effort. *Advanced Art 3 is an honors class with weighted grades; therefore, the demands and requirements are greater than in previous art courses.*

Ceramics 1

Grades 10-12
Course Number 713
Semester Course - 0.5 credit
Prerequisite: Art Foundations
Estimated Fee: $65.00
Recommended For: College Bound/Technical Education
Career: A,B,E

This course focuses on the fundamentals of hand building and glazing techniques. Students will learn pinch, coil and slab construction, glazing, and kiln loading procedures. Ceramics 1 will focus on three-dimensional design, the elements of art, aesthetic awareness and historical background as it relates to ceramics. Two research projects are required for successful completion of the course.

Ceramics 2

Grades 10-12
Course Number 714
Semester Course - 0.5 credit
Prerequisite: Ceramics 1
Estimated Fee: $65.00
Recommended For: College Bound/Technical Education
Career: A,B,E

Ceramics 2 is for students who have completed Ceramics 1 and wish to further develop their talents and interests in the study of ceramics. Hand-building, sculpture and work on the potter's wheel will

be reintroduced, with emphasis on form and quality. The students will use clay and glazes to fulfill course-required projects and personal interests. Students will be required to maintain a ceramics journal/sketchbook.

Photography 1: A Digital Approach

Grades 10-12
Course Number 696
Semester Course - 0.5 credit
Prerequisite: None
Estimated Fee: $34.70
Recommended For: College Bound/Technical Education
Career: A,B,E,F,H,P

Starting with the history of photography, students will read and learn about the invention of the camera. Students will use a digital camera and be introduced to Photoshop tools which will be used to adjust, edit and enhance photos based on the compositional elements of photography (i.e., rule of thirds, short depth of field and panning). Potential projects included in the course are Photo series, Portrait Study and a unit involving panoramic techniques. Students will research a modern photographer and present findings to the class.

Photography 2: A Classic Approach

Grades 10-12
Course Number 697
Semester Course - 0.5 credit
Prerequisite: None
Estimated Fee: $52.50
Recommended For: College Bound/Technical Education
Career: A,B,E,F,H,P

After a quick review of the history and the compositional elements associated with photography, students will learn the basic principles involved in classic photography. Using a 35mm camera and black and white film, students will learn how to process film and make prints in the darkroom. The students will incorporate compositional techniques to create meaningful and unique images while learning the correct and safe use of chemicals and equipment. Students will research a historic photographer and present findings to classmates.

Digital Art and Design 1

Grades 10-12
Course Number 715
Semester Course - 0.5 credit
Prerequisite: Art Foundations
Estimated Fee: $30.00
Recommended For: College Bound/Technical Education
Career: A,B,E

The Digital Art and Design 1 course introduces students to illustration techniques, associated terms, and vocabulary. Students will create illustrations and designs using the elements and principles of art. Students will experience industry standard software (Adobe Illustrator and Photoshop) and peripheral hardware to produce both fine and applied art products. *Students may complete their technology credit by taking Digital Art and Design 1.*

Digital Art and Design 2

Grades 10-12
Course Number 716
Semester Course - 0.5 credit
Prerequisite: Digital Art and Design 1
Estimated Fee: $30.00
Recommended For: College Bound/Technical Education
Career: A,B,E

Digital Art and Design 2 is for students who wish to further develop their talent, interest, knowledge and skills in the world of photography, graphics and technology.

Interaction with various software, emphasis on developing the photographic eye, and expanding individual portfolios with high quality graphics are some of the curriculum objectives. Students will be required to maintain a journal binder showing samples of all the lessons for this course.

AP Art History

Grades 11-12
Course Number 709
Full Year Course - 1 credit
Prerequisite: None
Estimated Fee: $10.00 and A.P. Test Registration
Recommended For: College Bound/Technical Education
Career: A,B,E,P

With recommendations from and the approval of the College Board, the Advanced Placement Art History course work models a college art class.
This course will provide students with an opportunity to study, research and understand painting, architecture, sculpture and other forms of art in various historical and cultural contexts. Past and present major forms of art will be critically analyzed emphasizing many issues such as politics, patronage, religion, gender and function effects of many works of art. Students enrolled in this course are required to take the A.P. exam in May

AP Studio Art: Drawing

Grades 11-12
Course Number 727
Full Year Course - 1 credit
Prerequisite: Advanced Art 2 and teacher recommendation
Estimated Fee: $55.00 and A.P. Test Registration
Recommended For: College Bound/Technical Education
Career: A,B,E,P

With recommendations from and the approval of the College Board, the Advanced Placement Studio Art course work models a college drawing class.
Drawing is for highly motivated students who are seriously interested in the study of art. This program demands significant commitment. The course will give art students an opportunity to challenge their talent and ability by creating unique artworks with a high degree of technical skill. Students will be required to develop a portfolio showing a fundamental competence and range of understanding in visual concerns, techniques and methods. AP Studio Art addresses three major concerns: sense of quality, concentration on a particular visual interest or problem, and breadth of experience in format, technical and expressive work. Students enrolled in this course are required to take the A.P. exam in May

Music Courses

American Pop Music

Grades 10-12
Course Number 580
Full Year Course - 1 credit
Prerequisite: None
Estimated Fee: None
Recommended For: College Bound/Technical Education
Career: A

The use of popular music encourages students to:

- recognize the traditional fundamentals of music in a form with which they already have a connection
- understand the similarities and differences between "classical" and "popular" music
- develop an interest in, and an appreciation for, a variety of musical styles and traditions by teaching music history backwards.

AP Music Theory

Grades 10-12
Course Number 581
Full Year Course - 1 credit
Prerequisite: None
Estimated Fee: AP Test Registration
Recommended For: College Bound/Technical Education
Career: A

With recommendations from and the approval of the College Board, the Advanced Placement Music Theory course work models a college music class.
In an AP Music Theory course, students are required to read, notate, write, sing, and listen to music. Students will learn basic musical language and grammar including note reading, musical notation, harmonic analysis, and part writing which will lead to a thorough understanding of music composition and music theory. Students will also recognize the development of music from an historical and cultural perspective and extend musical awareness beyond music currently familiar to the student. Students enrolled in this course are required to take the A.P. exam in May

Chorale

Grades 9-12
Course Number 597
Full Year Course - 1 credit
Prerequisite: Audition
Estimated Fee: None
Recommended For: College Bound/Technical Education
Career: A

Chorale is an advanced singing group consisting of students with prior choral experience. Entrance into this ensemble is by audition or at director discretion. All performances and rehearsals are mandatory. This choir works on more advanced musical concepts through sight-reading and the rehearsal and performance of sophisticated musical literature. The Chorale is made up of members who strive to convey a meaningful musical aesthetic through themselves for their audiences. This is done through a focus on the interpretation of texts and the conveying of this meaning through exceptional diction, dynamics, and phrasing. The choir performs evening concerts in school and the metropolitan area, which may include competitions and festivals. These evening commitments are a required part of the course.

By meeting additional requirements, juniors and seniors will be able to obtain honors credit for this course. The various options for earning the honors credit will be presented to students in the spring of the preceding school year.

Concert Choir

Grades 9-12
Course Number 592
Full Year Course - 1 credit
Prerequisite: Previous singing experience
Estimated Fee: None
Recommended For: College Bound/Technical Education
Career: A

The Concert Choir is a mixed ensemble consisting of students who enjoy singing. Admission is voluntary on an elective basis, and passage fulfills the required Arts credit for graduation. Participation in the Concert Choir expands basic knowledge of music through the performance and appreciation of choral music. The ensemble lays the foundation for exceptional musical performance though focuses on diction, tone production, and vowel formation, as well as improving or introducing students to reading music notation through sight-reading. The Concert Choir performs in no fewer than two evening concerts per school year. Attendance at all evening performances is mandatory for successful course completion.

Jazz Band

Grades 9-12
Course Number 553 or 554
Full Year Course – 0.5 credit
Prerequisite: Enrollment in Band/Recommendation
Estimated Fee: None
Recommended For: College Bound/Technical Education
Career: A

This is a comprehensive course covering jazz performance, history, and theory. Entrance into this ensemble is by audition only, and all performances and rehearsals are mandatory. Members must be enrolled in band to be eligible. This course is a half period taken opposite lunch.

Marching and Concert Band

Grades 9-12
Course Number 564
Full Year Course - 1 credit
Prerequisite: Audition
Estimated Fee: $25.00
Recommended For: College Bound/Technical Education
Career: A

The Band is a select wind ensemble of students in grades 9-12 who have demonstrated mastery skills at the high school level. During the fall season, this band comprises the marching band. After the conclusion of the marching band program, the band continues as a concert performance band. This band performs at various concerts, festivals, and parades. The students are required to attend all events. The fee assessed is for band camp, which is a course requirement. Students are also responsible for purchase of equipment and clothing for summer parades, marching band, and concert band.

By meeting additional requirements, juniors and seniors will be able to obtain honors credit for this course. The various options for earning the honors credit will be presented to students in the spring of the preceding school year.

HEALTH AND PHYSICAL EDUCATION

Health and Physical Education Courses

9th Grade	10th Grade	11th-12th Grade Electives
Physical Education*	Physical Education*	Aerobics 11-12*
	Aerobics 10*	Plyometrics and Conditioning 11-12*
	Plyometrics and Conditioning 10*	Sports Medicine*
	Health*	Sport/Recreation and Fitness*
	Fundamentals of Coaching*	Fundamentals of Coaching*

*semester course

Health and Physical Education Courses

Physical Education

Grades 9-10
Course Number 739
Semester Course - 0.25 credit
Prerequisite: None
Estimated Fee: $11.00
Recommended For: College Bound/Technical Education
Career: CORE

The 9-10 Physical Education program consists of a comprehensive coeducational curriculum with major emphasis on team and group-related activities. Individual sports and lifetime recreational activities are offered at various times throughout the year to provide a well-rounded course of study. Students will have swimming. Individual physical fitness will be stressed as an integral part of each unit of instruction. A climate is established to provide a safe setting for positive interaction among students.

This course may be used to meet half of the physical education graduation requirement or may be taken twice to fulfill the physical education graduation requirement.

9th grade students must take at least 1 semester of PE. Students may then fulfill their other half of the PE graduation requirement by completing two full seasons of athletics, cheerleading or marching band to earn the ¼ credit (no grade.) Participation in athletics, marching band, or cheerleading prior to the 2014-2015 school year does not apply.

Aerobics 10

Grade 10
Course Number 743
Semester Course - 0.25 credit
Prerequisite: Teacher Recommendation
Estimated Fee: $10.00
Recommended For: Fitness Minded
Career: A,B,H,P

This course provides a total body aerobic fitness and strength-training program for high school age females. The course impacts cardiovascular endurance, muscle strength and endurance, flexibility and body composition of the amount of fat one has compared to lean tissue. This exercise program includes dance aerobics, step, power walking, Pilates, big fitness ball routines, stretch cord routines, medicine ball routines, water aerobics, and a fitness circuit with ladders and jump ropes. *This course may be used to meet half of the physical education graduation requirement*

Health

Grade 10
Course Number 734
Semester Course - 0.5 credit
Prerequisite: None
Estimated Fee: $14.75
Recommended For: College Bound/Technical Education
Career: CORE

In the health classes, students explore the various health problems and fads of the past, present, and future. Emphasis is placed on understanding facts and concepts as well as knowing the many local health agencies and their services in the community. The following topics are studied in depth: (1) use, abuse, and misuse of tobacco, alcohol, and drugs; (2) basic first aid and first aid principles; (3) mental health; (4) aging, death and dying; (5) stress; (6) sexually transmitted disease; (7) birth defects; (8) cancer and heart disease; and (9) CPR.

Plyometrics and Conditioning (P.A.C.) 10

Grade 10
Course Number 745
Semester Course - 0.25 credit
Prerequisite: Must be participating in a varsity sport and Teacher Recommendation
Estimated Fee: $25.00
Recommended For: Fitness Minded
Career: A,B,E,H,P

P.A.C. 10 is a semester course offered to varsity athletes seriously interested in strength training and plyometrics. This course can be used as a substitute to the physical education requirement or as an elective class. The course will offer an intense workout for males and females who are extremely dedicated to becoming faster and stronger to improve their athletic performance. The course will offer programs for off-season and in-season conditioning. Students will strength train three times per week. Each student will be pre-tested, have a mid-term test and a post-term test at the conclusion of the program. This course would be excellent for those athletes who are involved in more than a varsity sport. *This course may be used to meet half of the physical education graduation requirement.*

Fundamentals of Coaching

Grades 10-12
Course Number 740
Semester Course - 0.5 credit
Prerequisite: 9-10 PE
Estimated Fee: Optional Coaching Certificate ($65.00) and CPR Certificate ($45.00)
Recommended For: College Bound/Technical Education
Career: A,B,E,H,P

The impact of coaching has exploded, touching every aspect of today's society. Through this course, the student will develop guidelines and principles helpful in organizing a successful athletic program. The course will emphasize an awareness of the demands of the coaching profession and explore issues and ethical considerations significant to coaching.

Students will take practice tests for coaching and CPR through the National Federation of High School Coaches and the American Red Cross.

Aerobics 11-12

Grades 11-12
Course Number 744
Semester Course - 0.5 credit
Prerequisite: Completion of Physical Education Graduation Requirement and Teacher Recommendation
Estimated Fee: $10.00
Recommended For: Fitness Minded
Career: A,B,H,P

This elective course provides a total body aerobic fitness and strength-training program for high school age females. The course impacts cardiovascular endurance, muscle strength and endurance, flexibility and body composition of the amount of fat one has compared to lean tissue. This exercise program includes dance aerobics, step, power walking, Pilates, big fitness ball routines, stretch cord routines, medicine ball routines, and a fitness circuit with ladders and jump ropes. *This course may NOT be used to meet the physical education graduation requirement.*

Plyometrics and Conditioning (P.A.C.) 11-12

Grades 11-12
Course Number 746
Semester Course - 0.5 credit
Prerequisite: Completion of the Physical Education Graduation Requirement, must be participating in a varsity sport, and Teacher Recommendation
Estimated Fee: $25.00
Recommended For: Fitness Minded
Career: A,B,E,H,P

The P.A.C. 11-12 is an elective semester course offered to varsity athletes seriously interested in strength training and plyometrics. This course can be used as an elective class. The course will offer an intense workout for males and females who are extremely dedicated to becoming faster and stronger to improve their athletic performance. The course will offer programs for off-season and in-season conditioning. Students will strength train three times per week. Each student will be pre-tested, have a mid-term test and a post-term test at the conclusion of the program. This course would be excellent for those athletes who are involved in more than a varsity sport. *This course may NOT be used to meet the physical education graduation requirement.*

Sports Medicine

Grades 11-12
Course Number 736
Semester Course - 0.5 credit
Prerequisite: 2.5 grade point average
Estimated fee: $11.00
Recommended For: College Bound/Technical Education
Career: H,P

This course is designed for students interested in fields such as athletic training, physical therapy medicine, fitness, physiology of exercise, kinesiology, nutrition, and other sports medicine related fields. The students will be responsible for class work and practical hands-on application in the following areas: prevention, treatment, and rehabilitation of sports injuries; taping and wrapping of injuries; first aid/CPR; emergency procedures; and sports medicine careers. This course will offer practical experiences with local sports medicine specialists. The Sports Medicine course is designed to be taken in conjunction with a Sports Medicine Practicum (expanded practical experience), which will require an average of one hour per week outside of the school day.

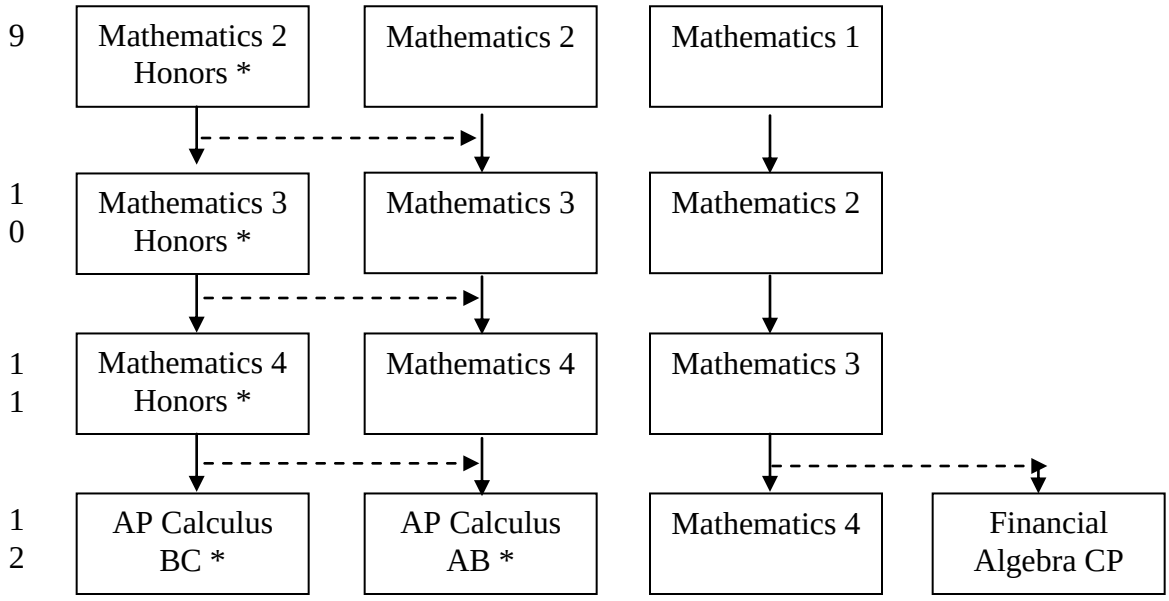
Sport/Recreation and Fitness

Grades 11-12
Course Number 742
Semester Course - 0.5 credit
Prerequisite: Completion of the Physical Education Graduation Requirement
Estimated Fee: None
Recommended For: Fitness Minded
Career: A,B,E,H,P

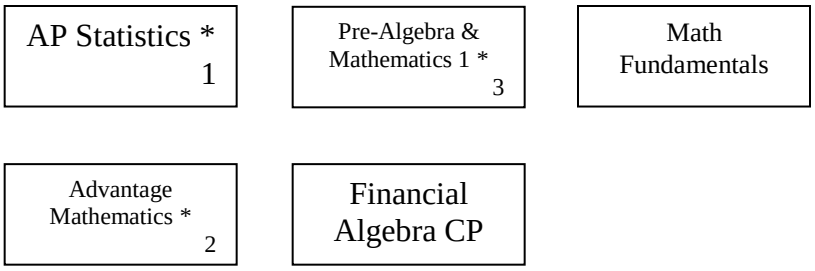
This class is for 11th and 12th graders who want to continue taking physical education as an elective. The semester would include sports and recreation activities interwoven with fitness routines which have proven to be the most popular among the older students. Each sport and recreation activity would have more time dedicated to it with more skill and strategy work included. The ultimate reward would be skilled game play that is more fun and competitive. *This course may NOT be used to meet the physical education graduation requirement.*

MATHEMATICS

Mathematics Courses



Other Mathematics Courses



* Course available only with recommendation of current mathematics teacher.

1. A.P. Statistics is available to students who have completed Mathematics 3.
2. Advantage Mathematics can be taken in grades 9 or 10 by students who are recommended by their mathematics teacher. This class is a 25-minute class taken instead of study hall opposite lunch as a support to help strengthen basic skills.
3. Pre-Algebra and Mathematics 1 is a two-period course for students who need extra support to strengthen basic skills in addition to learning all topics covered in Mathematics 1.

Mathematics Courses

Mathematics 1

Grade 9
Course Number 331
Full Year Course - 1 credit
Prerequisite: 8 Mathematics
Estimated Fee: None
Recommended For: College Bound or Technical Education
Career: CORE

The purpose of Mathematics 1 is to formalize and extend the mathematics that students learned in middle school. The critical areas deepen and extend understanding of linear relationships, in part by contrasting them with exponential phenomena, and in part by applying linear models to data that exhibit a linear trend. Mathematics 1 also uses properties and theorems involving congruent figures to deepen and extend understanding of geometric knowledge from prior grades. A graphing calculator is required for this course.

Advantage Mathematics 1

Grade 9
Course Number 334
Full Year Course: No Credit
Co-requisite: Mathematics 1 and Recommendation
Estimated Fee: None
Recommended For: Supplemental Support
Career: CORE

This course is used as a support for students who need extra help with the skills needed to succeed in Mathematics 1. In addition, this class is structured so that students will have more in-depth practice and more one-on-one time. This is a half-period class and taken opposite lunch.

Math Fundamentals

Grade 9
Course Number 876
Full Year Course: No Credit
Co-requisite: Mathematics 1 and Recommendation
Estimated Fee: None
Recommended For: Supplemental Support
Career: CORE

This course is for 9th grade students that need one more year of development before entering Math 1. This course will both strengthen understanding of major concept and topics from previous math courses an preview major content from future courses. Topics and content covered include number sense, formulating and reasoning about expressions and equations, analyzing two- and three-dimensional space and figure using distance, angle, similarity an congruence, linear functions and an introduction to exponential functions.

Pre-Algebra and Mathematics 1

Grade 9
Course Number 332
Full Year Course - 2 credits (1 math, 1 elective)
Prerequisite: Recommendation
Estimated Fee: None
Recommended For: College Bound or Technical Education with Supplemental Support
Career: CORE

This course is a class that covers all the same objectives as Mathematics 1, but also reserves time to remediate Pre-Algebra skills. This course meets for 2 periods every day to accomplish this goal. Students earn 1 mathematics credit and 1 elective credit upon completion of this course. A graphing calculator is required for this course.

Mathematics 2

Grade 10
Course Number 341
Full Year Course - 1 credit
Prerequisite: Mathematics 1
Estimated Fee: None
Recommended For: College Bound or Technical Education
Career: CORE

The focus of Mathematics 2 is on quadratic expressions, equations, and function; comparing their characteristics and behavior to those of linear and exponential relationships from Mathematics 1. The need for extending the set of rational numbers arises and real and complex numbers are introduced so that all quadratic equations can be solved. The link between probability and data is explored through conditional probability and counting methods. The study of similarity leads to an understanding of right triangle trigonometry. A graphing calculator is required for this course.

Mathematics 2 Honors

Grade 9
Course Number 339
Full Year Course - 1 credit
Prerequisite: Mathematics 1 Accelerated and Recommendation
Estimated Fee: None
Recommended For: College Bound
Career: CORE

This course is the second course in the honors program sequence. All topics covered in the Mathematics 2 course are included, but covered in greater depth and with increased rigor. A graphing calculator is required for this course.

Advantage Mathematics 2

Grade 10
Course Number 344
Full Year course: No Credit
Co-requisite: Mathematics 2 and Recommendation
Estimated Fee: None
Recommended For: Supplemental Support
Career: CORE

This course is used as a support for students who need extra help with the skills needed to succeed in Mathematics 2. The class is aligned with the concepts that are taught in Mathematics 2. In addition, this class is structured so that students will have more in-depth practice and more one-on-one time. This is a half-period class and taken opposite lunch.

Mathematics 3

Grade 11
Course Number 351
Full Year Course - 1 credit
Prerequisite: Mathematics 2
Estimated Fee: None
Recommended For: College Bound or Technical Education
Career: CORE

It is in Mathematics 3 that students pull together and apply the accumulation of learning that they have from their previous courses. They apply methods from probability and statistics to draw inferences and conclusions from data. Students expand their repertoire of functions to include polynomial, rational, and radical functions. They expand their study of right triangle trigonometry to include general triangles. And, finally, students bring together all of their experience with functions and geometry to create models and solve contextual problems. A graphing calculator is required for this course.

Mathematics 3 CP

Grade 11
Course Number 352
Full Year Course - 1 credit
Prerequisite: Mathematics 2 and Recommendation
Estimated Fee: None
Recommended For: College Bound or Technical Education
Career: B,E,F,H

It is in Mathematics III that students pull together and apply the accumulation of learning that they have from their previous courses. They apply methods from probability and statistics to draw inferences and conclusions from data. Students expand their repertoire of functions to include polynomial, rational, and radical functions. They expand their study of right triangle trigonometry to include general triangles. And, finally, students bring together all of their experience with functions and geometry to create models and solve contextual problems. This course is meant for students that struggled in Math II and need additional support. A graphing calculator is required for this course.

Mathematics 3 Honors

Grade 10
Course Number 349
Full Year Course - 1 credit
Prerequisite: Mathematics 2 Honors and Recommendation
Estimated Fee: None
Recommended For: College Bound
Career: CORE

This course is the third course in the honors program sequence. All topics covered in the Mathematics 3 course are included, but covered in greater depth and with increased rigor. A graphing calculator is required for this course.

Mathematics 4

Grade 12
Course Number 361
Full Year Course - 1 credit
Prerequisite: Mathematics 3
Estimated Fee: None
Recommended For: College Bound or Technical Education
Career: B,E,F,H

Mathematics 4 builds off of the concepts of Mathematics 3 but extends further by studying rates of change, logarithmic functions, polynomial and rational functions, and various forms of problem solving. This course includes an introduction to number theory and calculus. A graphing calculator is required for this course.

Mathematics 4 Honors

Grade 11
Course Number 359
Full Year Course - 1 credit
Prerequisite: Mathematics 3 Honors and Recommendation
Estimated Fee: None
Recommended For: College Bound
Career: B,E,F,H

Mathematics 4 Honors is the fourth course in the honors program sequence. All topics covered in the Mathematics 4 course are included in this course plus parametric equations and additional work with derivatives and integrals as a preparation for the AP Calculus BC course. A graphing calculator is required for this course.

Financial Algebra CP

Grade 12
Course Number 362
Full Year Course - 1 credit
Prerequisite: Mathematics 2
Estimated Fee: None
Recommended For: Technical Education or College Bound
Career: A,B,F,P

This course explores linear, quadratic, and exponential equations, as well as probability, geometry and other math topics through the realities of the stock market, banking and credit, employment, taxes, retirement, and budgeting. The course may

be taken as a senior level college preparatory class to fulfill the fourth year graduation requirement or as an additional mathematics course during a student's senior year. A graphing calculator is required for this course.

AP Calculus AB

Grade 12
Course Number 364
Full Year Course - 1 credit
Prerequisite: Mathematics 4
Estimated Fee: A.P. Test Registration
Recommended For: College Bound
Career: B,E,F,H

With recommendations from and the approval of the College Board, the Advanced Placement Calculus AB course work models a college course in Mathematics.

AP Calculus AB is a course designed to accommodate those students who have completed Mathematics 4 before their senior year and have a desire to continue their mathematics education. The course offers an intuitive approach to limit theory along with differential and integral calculus. With much of the emphasis placed on problem solving and applications (business, engineering, etc.), the students will be prepared to take the Calculus AP exam (AB Form) in May. A graphing calculator is required for this course. Students enrolled in this course are required to take the A.P. exam in May.

AP Calculus BC

Grade 12
Course Number 369
Full Year Course - 1 credit
Prerequisite: Mathematics 4 Honors and Recommendation
Estimated Fee: A.P. Test Registration
Recommended For: College Bound Education
Career: B,E,F,H

With recommendations from and the approval of the College Board, the Advanced Placement Calculus BC course work models a college course in Calculus.

The student will be prepared to take the Advanced Placement Calculus exam (AB or BC) in May. This course follows guidelines set by the Advanced Placement Program of the College Entrance Examination Board. Both differential and integral calculus are studied with a major emphasis on problem solving and analytical applications. Other topics covered include sequences and series, differential equations, and polar coordinates. A graphing calculator is required for this course. Students enrolled in this course are required to take the A.P. exam in May.

AP Statistics

Grade 11-12
Course Number 370
Full Year Course - 1 credit
Prerequisite: Recommendation
Estimated Fee: A.P. Test Registration
Recommended For: College Bound
Career: B,E,F,H,P

With recommendations from and the approval of the College Board, the Advanced Placement Statistics course work models a college course in Statistics.
The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes:
Exploring Data: Observing patterns and departures from patterns
Planning Study: Deciding what and how to measure
Anticipating Patterns: Producing models using probability theory and simulation
Statistical Inference: Confirming models.

A graphic calculator is required for this course. Students enrolled in this course are required to take the A.P. exam in May.

SCIENCE

Science at Mayfield High School

The science curriculum is designed to meet the needs of every student. Students must earn three credits in science. One credit must be in a physical science and a second credit must be in a biological science. The third credit can be in any advanced study for high school graduation, although the college-bound CORE recommends the sequence of chemistry and physics for college preparation. Science electives are identified on the next page.

Main Sequence of Science Courses

9th Grade	10th Grade	11th Grade	12th Grade
9 Physical Science	10 Biology	Chemistry	Physics
9 Physical Science Honors	10 Biology Honors	AP Chemistry [Year 1]	AP Physics B I
9 Biology Honors (select criteria)	AP Chemistry [Year 1]	AP Chemistry [Year 2]	AP Physics B II
		AP Physics B I	AP Chemistry [Year 2]

Excel TECC Required Science Courses

9th Grade	10th Grade	11th Grade	12th Grade
		Anatomy Chemistry	
		Human Anatomy and Physiology	

Elective Science courses on next page

Elective Science Courses

9th Grade	10th Grade	11th Grade	12th Grade
Biomedical STEM2M	Astronomy*	Astronomy*	Astronomy*
Pre-Engineering STEM2M		AP Biology	AP Biology
		AP Environmental Science	AP Environmental Science
		Energy and the Environment	Energy and the Environment
		Explorations in Engineering*	Explorations in Engineering*
		Human Anatomy and Physiology	Human Anatomy and Physiology
		Zoology*	Zoology*

*semester course

Main Sequence of Science Courses

9 Physical Science

Grade 9
Course Number 431
Full Year Course - 1 credit
Prerequisite: None
Estimated Fee: $17.00
Recommended For: College Bound/Technical Education
Career: CORE

The course provides a foundation in basic chemistry and physics by which scientific knowledge is acquired. Students acquire useful lab skills, math applications and reasoning skills that help students to better develop their ability to communicate. The course begins with a look at accuracy, precision and uncertainty. The course then delves into the basic chemistry topics including the explorations in matter, atoms in the Periodic Table, chemical reactions, solutions, acids and bases, as well as nuclear change. Physics fundamentals include the overview of motion, forces, work, energy, heat, temperature, waves, sound, light, electricity and magnetism. The course meets all of the physical science requirements for the Ohio Graduation Test.

9 Physical Science Honors

Grade 9
Course Number 439
Full Year Course - 1 credit
Prerequisite: Teacher Recommendation
Estimated Fee: $17.00
Recommended For: College Bound
Career: CORE

This course provides a solid foundation in basic chemistry and physics, heavily emphasizing the use of mathematics as a tool to aid in acquiring scientific knowledge and solidifies understanding of concepts. The lab skills, mathematical analysis and reasoning skills promote growth in communication skills. The emphasis on accuracy and precision in reporting results sets up basic chemistry studies in areas such as matter, states of matter, atoms in the Periodic Table, chemical reactions, balancing equations, solutions, acids, bases, salts and nuclear change. The fundamental principles of physics explored include motion, forces, work, energy, heat, temperature, waves, sound, light, electricity and magnetism. The depth of material, additional mathematics analysis and insertions of scientific history and interdisciplinary connections separate the honors from the traditional course. This course meets all of the physical science requirements for the Ohio Graduation Test.

10 Biology

Grade 10
Course Number 441
Full Year Course - 1 credit
Prerequisite: 9 Physical Science
Estimated Fee: $25.00
Recommended For: All Students
Career: CORE

10 Biology is a broad-based survey of the study of life. The course emphasizes the seven themes in Biology: cellular structure and function, reproduction, metabolism, homeostasis, heredity, evolution and interdependence. Inquiry learning, laboratory and field experiences, as well as the use of technology are utilized to teach Biology concepts. This course satisfies the high school requirement for a life science.

10 Biology Honors

Grade 10
Course Number 449
Full Year Course - 1 credit
Prerequisite: 9 Physical Science Honors and teacher recommendation
Estimated Fee: $25.00
Recommended For: College Bound
(May be taken concurrently with AP Chemistry [Year 1])
Career: CORE

10 Biology Honors, the study of life, is also a survey course emphasizing the seven themes of Biology: cellular structure and function, reproduction, metabolism, homeostasis, heredity, evolution and interdependence. Students will be expected to work at the level of application and analysis of information. Independent projects will be done during which time the student will be expected to explore information beyond the textbook.

Chemistry

Grades 11-12
Course Number 451
Full Year Course - 1 credit
Prerequisite: 9 Physical Science, 10 Biology, Taking/Completed Mathematics 3
Estimated Fee: $20.00
Recommended For: College Bound
Career: CORE

Chemistry deals with all of the substances that make up our environment and the changes that take place in these substances. Students are introduced to chemistry as a science and discuss matter and its changes. Once these basic concepts are understood, a more detailed study is begun with topics such as atomic structure, classification of elements, the periodic table, chemical bonding, and chemical formulas. The interaction of substances is further expanded to include chemical equations and mass relationships in chemical reactions. Course study also includes the phases of matter, including topics of the gas laws, molecular composition of gases, and a study of liquids, solids and water. Note: A non-programmable, scientific calculator is necessary for the many mathematical calculations that are required.

AP Chemistry [Year 1]

Grades10-11
Course Number 447
Full Year Course - 1 credit
Prerequisite: 9 Physical Science taken concurrently with or after completion of 10 Biology, and Teacher Recommendation
Estimated Fee: $20.00
Recommended For: College Bound
Career: A,B,E,F,H,P

With recommendations from and the approval of the College Board, the Advanced Placement Chemistry course work models a first semester first year college course in Chemistry.

This is the first of a two-year sequence for Advanced Placement Chemistry. It helps prepare the student for the Advanced Placement exam to be taken upon completion of the AP Chemistry [Year 2] class during his/her junior or senior year. The course is designed to approximate the first semester of a first-year college chemistry course. Topics to be covered include: introduction to matter and measurements; atoms, molecules, and ions; chemical stoichiometry, formulas, and equations; aqueous reactions and solution stoichiometry; thermo chemistry; electronic structure of atoms; the periodic table; chemical bonding; molecular geometry; gases; intermolecular forces, liquids, solids; and properties of solutions. Appropriate lab experiments are incorporated into the course. Students should have a strong commitment to completing the two-year sequence.

AP Chemistry [Year 2]

Grades 11-12
Course Number 459
Full Year Course - 1 credit
Prerequisite: AP Chemistry [Year 1] and Teacher Recommendation
Estimated Fee: $20.00 and A.P. Test Registration
Recommended For: College Bound
Career: A,B,E,F,H,P

With recommendations from and the approval of the College Board, the Advanced Placement Chemistry course work models a second semester first year college course in Chemistry.
Topics to be covered include: chemical equilibrium; chemical kinetics; chemical thermodynamics; electrochemistry; oxidation-reduction reactions; nuclear chemistry; and methods of qualitative and quantitative analysis. Appropriate lab work is incorporated into the course. Students enrolled in this course are required to take the A.P. exam in May.

Physics

Grade 12
Course Number 461
Full Year Course - 1 credit
Prerequisite: 9 Physical Science, 10 Biology, and concurrent with Mathematics 4
Estimated Fee: $10.00
Recommended For: College Bound
Career: CORE

The regular course in Physics is basically a survey course. Many aspects of physics are explored. The course begins with a review of trigonometry and the metric system. The student will move on to the topic of mechanics, which includes the study of forces and motion. Other topics to be studied include kinetic theory, waves, sound, light, and electricity. Note: A scientific calculator is necessary for the many mathematical calculations that are required.

AP Physics B I

Grade 12
Course Number 469
Full Year Course - 1 credit
Prerequisite: Teacher Recommendation and Mathematics 4 or above
Estimated Fee: $10.00 and A.P. Test Registration
Recommended For: College Bound
Career: A,B,E,F,H,P

With recommendations from and the approval of the College Board, the Advanced Placement Physics B I course work models a first semester college course in algebra-based mechanics.

The course provides a systematic introduction to the main principles of mechanics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It will also introduce electric circuits. An understanding of the basic principles involved and the ability to apply these principles to a variety of problems, especially in the laboratory environment, are the major goals of the course. To this end a significant portion of the course (approximately 35-40%) will be devoted to laboratory work with a focus on inquiry based labs. Knowledge of algebra and trigonometry is required although the basic ideas of calculus may be introduced in connection with some physical concepts. Students enrolled in this course are required to take the A.P. exam in May.

AP Physics B II

Grade 12
Course Number 470
Full Year Course - 1 credit
Prerequisite: AP Physics B I
Estimated Fee: $10.00 and A.P. Test Registration
Recommended For: College Bound
Career: A,B,E,F,H,P

With recommendations from and the approval of the College Board, the Advanced Placement Physics B II course work models a second semester college course in algebra-based physics.

The course uses Newtonian mechanics, work, energy, and power to expand on the topics of fluid mechanics; thermodynamics; electricity and magnetism; electrical circuits; optics as well as atomic and nuclear physics. An understanding of the basic principles involved and the ability to apply these principles to a variety of problems, especially in the laboratory environment, are the major goals of the course. To this end a significant portion of the course (approximately 35-40%) will be devoted to laboratory work with a focus on inquiry based labs. Knowledge of algebra and trigonometry is required although the basic ideas of calculus may be introduced in connection with some physical concepts. Students enrolled in this course are required to take the A.P. exam in May

Excel TECC Required Science Courses

Anatomy/Chemistry for Excel TECC Programs

Grade 11
Course Number 495
Full Year Course - 1 credit
Prerequisite: Only for students enrolled in Cosmetology
Estimated Fee: $42.00
Recommended For: Cosmetology Students
Career: E,F,H,P

Subjects covered are Bacteriology, Sanitation and Sterilization, Histology of Hair, Skin, and Nails, Chemistry, Anatomy, Color Theory, Electricity and Light Therapy. Students study bacteriology applications and communicable diseases, acceptable sanitation and sterilization procedures, the structure of hair, skin, and nails, chemical principles applicable to cosmetology practices, body systems related to massage techniques, as well as the remaining body systems, color theory as it relates to hair color, basic electrical concepts for implements and equipment, and the relationship of light rays and the spectrum to facial and scalp treatments. The focus of Bacteriology is to define, describe and classify bacteria and related diseases with a minimum 75% accuracy to meet requirements of the State Board of Cosmetology. Sanitation and Sterilization focuses on describing effective, practical and acceptable methods for the prevention of bacteria and disease through proper sanitation and sterilization techniques with a minimum 100% accuracy to meet State Board of Cosmetology requirements. The focus of Histology of Hair, Skin and Nails is identification, description, and definition of hair, skin and nail requirements for the State Board of Cosmetology. Chemistry focuses on basic chemistry terms, formulas, and concepts that relate to the chemistry of substances used on hair, skin, and nails with a minimum 75% accuracy to meet State Board of Cosmetology requirements. The focus of Anatomy is the identification using both technical and common names of all bones, muscles, nerves and blood vessels of the face, neck, shoulder, upper chest, hand, arm and upper back with a minimum of 75% accuracy to meet the requirements of the State Board of Cosmetology. Color theory focuses on color identification, balance, use of the color wheel, and terminology with a minimum 75% accuracy to meet the State Board of Cosmetology requirements. The focus of Electricity is to list and tell the purposes and effects of various electrical equipment and the currents produced by each with a minimum of 75% accuracy to meet the requirements of the State Board of Cosmetology. Light Therapy focuses on the relations of basic concepts of light to light therapy equipment for facial and scalp treatments with a minimum of 75% accuracy to meet the State Board of Cosmetology requirements.

Human Anatomy/Physiology for Excel TECC Programs

Grades 11-12
Course 493
Full Year Course - 1 credit
Prerequisite: Concurrent with Medical Technology/Physiology –only for students in the Med Tech Program
Estimated Fee: $35.00
Recommended For: Medical Technology Students
Career: B,E,F,H,P

This course is designed to meet the college prep science requirements and also to reinforce and enhance Medical Terminology classes. The course will examine the structure and function of major body systems including the skeletal, muscular, nervous, endocrine, circulatory, lymphatic, integumentary, digestive, respiratory, urinary and reproductive systems. Disease, medical technology, and current research will be highlighted throughout the year. Dissections are an integral part of the course.

Elective Science Courses

Astronomy

Grades 10-12
Course Number 443
Semester Course - 0.5 credit
Prerequisite: 9 Physical Science
Estimated Fee: $10.00
Recommended For: College Bound/Technical Education
Career: E,F

Astronomy is a course that will explore the universe around us. We will start from the basics of our solar system and its beginning to unravel the mysteries of our universe and beyond. Star formation, constellations, planetary impact, space travel, and the multitudes of theories surrounding this infinitely unfolding subject make this an excellent course for the scientifically curious.

AP Biology

Grades 11-12
Course Number 468
Full Year Course - 1 credit
Prerequisite: 10 Biology and Chemistry (B or better in both)
Estimated Fee: $25.00 and A.P. Test Registration
Recommended For: College Bound Students majoring in the sciences
Career: A,B,E,F,H,P

With recommendations from and the approval of the College Board, the Advanced Placement Biology course work models a first year college course in Biology.

As a general survey course, topics covered included the cell, biochemistry, molecular biology, classification, evolution and ecology. Laboratory experiments reinforce and approximate college lab curriculum. Students enrolled in this course are required to take the A.P. exam in May.

AP Environmental Science

Grades 11-12
Course Number 467
Full Year Course - 1 credit
Prerequisite: Completed 10 Biology with a grade B or above, and successful completion of 9 Physical Science
Estimated Fee: $15.00 and A.P. Test Registration
Recommended For: College Bound
Career: E,F,H,P

With recommendations from and the approval of the College Board, the Advanced Placement Environmental Science course work models a one semester, non-science major college course.

The course explores the scientific principles involved in environmental issues. The course is issue based, making it more appealing to those students who do not plan a major in science at the college level. The course does delve into the scientific reasons behind environmental problems making it of interest to those students planning a career in the sciences. Emphasis is placed on data manipulation, science report writing, and debating issues based on scientific fact rather than myth. The students are expected to produce college-level work during the class. Students enrolled in this course are required to take the A.P. exam in May.

Energy and the Environment

Grades 11-12
Course Number 452
Full Year Course - 1 credit
Prerequisite: 9 Physical Science, 10 Biology, Mathematics 1 or higher
Estimated Fee: $15.00
Recommended For: College Bound/Technical Education
Career: A,B,E,F,H,P

Energy is the life-blood of our communities. There is increasing concern about the influence of human activities, particularly energy use, on our environment. This has an impact on global business aspects. Students will be introduced to the basic concepts of energy and its use to better understand the positions of policymakers, scientists, and industry over the interrelationship between greenhouse gas emissions, global climate change, sustainability and many other debated topics. The students will acquire knowledge, which will enable them to critically evaluate any energy-related concerns of the society. This is important for responsible citizenship and stewardship.

The course is designed to investigate the ideas and applications of energy in both a theoretical and practical way. The curriculum of the course is largely project-driven and investigates work, energy, efficiency, and energy production. Due to the project-based learning in this course, each individual will be able to challenge themselves to grow at an appropriate pace.

Explorations in Engineering

Grades 11-12
Course Number 444
Semester Course - 0.5 credit
Prerequisite: 9 Physical Science, 10 Biology, and Mathematics 2
Estimated Fee: $20.00
Recommended For: College Bound/Technical Education
Career: B,E,F

This course will intensely explore a variety of engineering topics using a project-based approach. The extensive theory and analysis will include the mathematical and physical properties that explain the nature of the design. In addition, the course will emphasize that engineering design fills a customer need and has constraints. Project constraints will include limitations in design requirements, manufacturability, cost analysis, and more.

This course is intended to be taken concurrently with another science course.

Human Anatomy and Physiology

Grades 11-12
Course Number 453
Full Year Course - 1 credit
Prerequisite: C or better in 10 Biology Lab
Estimated Fee: $35.00
Recommended For: College Bound/Medical Field
Career: B,E,F,H,P

The human body is truly incredible. To deepen student understanding of the human body Anatomy and Physiology is a year-long course that investigates the human body's structure and its functions. The course will examine the structure and function of major body systems including the skeletal, muscular, nervous, endocrine, circulatory, lymphatic, integumentary, digestive, respiratory, urinary and reproductive systems. Disease, medical technology, and current research will be highlighted throughout the year. Dissections are an integral part of the course.
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Zoology

Grades 11-12
Course Number 456
Semester Course - 0.5 credit
Prerequisite: 10 Biology or 10 Biology Honors
Estimated Fee: $25.00
Recommended For: College Bound
Career: E,F,H,P

We will explore the intricacies of vertebrate classes in the animal kingdom. The student will study the anatomy, physiology, and behavior of the diverse members of the vertebrate classes. The evolutionary relationships will also be discussed along with the problems in classification of the organisms now that DNA fingerprinting and protein comparisons are being used to study the relationships with and among the animal groups. We will study mechanisms of protection including aposematic and cryptic coloration and adaptive behaviors. Breeding behaviors will also be highlighted. A variety of laboratory techniques and studies will be used during this semester to emphasize the similarities and differences among the classes.

STEM2M Programs

STEM2M at Mayfield High School

The **STEM2M** courses offered at Mayfield High School bring together the disciplines of Science, Technology, Engineering, Mathematics and Medicine. Through these courses students will develop critical skills through an interdisciplinary approach which are relevant for any coursework or career. Mayfield offers two strands, **Biomedical Science** and **Pre-Engineering**.

Biomedical Science is a high school program divided into four sections, each section building upon the previous. Students interested in math, science, and the human body will find the biomedical sciences program a great introduction to the numerous medical fields. It will also teach them how the skills they learn are used in the biomedical sciences.

The biomedical sciences program offers high school students a dynamic curriculum that uses real world experience and hands on learning. Students with interest in exploring the variety that medicine offers will find this program a fantastic doorway to the future of the industry. The program uses a combination of activity-based, project-based and problem-based (APPB) learning styles to engage students.

Pre-Engineering is a four year sequence of courses which, when combined with traditional mathematics and science courses in high school, introduces students to the scope, rigor and discipline of engineering prior to entering college. However, those not intending to pursue further formal education will benefit greatly from the knowledge and logical thought processes that result from taking some or all of the courses provided in the curriculum.

STEM2M Pathways

	Biomedical	**Pre-Engineering**
9th Grade	Principles of Biomedical Science	Introduction to Engineering Design
10th Grade	Human Body Systems *(Offered in 2016-2017)*	Principles of Engineering *(Offered in 2016-2017)*
11th Grade	Medical Interventions *(Offered in 2017-2018)*	Specialization Course (TBD) *(Offered in 2017-2018)*
12th Grade	Biomedical Innovation *(Offered in 2018-2019)*	Specialization Course (TBD) *(Offered in 2018-2019)*

STEM2M Courses

Principles of the Biomedical Sciences

Biomedical Science Pathway
Grade 9
Course Number 435
Full Year Course - 1credit
Prerequisite: None
Estimated Fee: TBD
Recommended For: B, E, F, H, P

This is the introductory course to our biomedical program. Students will investigate concepts of biology and medicine as they explore health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases.

They will determine the factors that led to the death of a fictional person as they sequentially piece together evidence found in her medical history and her autopsy report. Students will investigate lifestyle choices and medical treatments that might have prolonged the person's life and demonstrate how the development of disease is related to changes in the human body systems.

The activities and projects introduce students to human physiology, basic biology, medicine, and research processes and allow students to design experiments to solve problems.

Human Body Systems

(Not offered until 2016-2017)
Biomedical Science Pathway
Grade 10
Course Number 445
Full Year Course – 1 credit
Prerequisite: Principles of the Biomedical Sciences
Estimated Fee: TBD
Recommended For: B, E, F, H, P

This is the second course in our biomedical program. Students examine the processes, structures, and interactions of the human body systems to learn how they work together to maintain homeostasis (internal balance) and good health.

Using real-world cases, students take the role of biomedical professionals and work together to solve medical mysteries. Hands-on projects include designing experiments, investigating the structures and functions of body systems, and using data acquisition software to monitor body functions such as muscle movement, reflex and voluntary actions, and respiratory operation.

Important concepts covered in the course are communication, transport of substances, locomotion, metabolic processes, defense, and protection.

Medical Interventions

(Not offered until 2017-2018)
Biomedical Science Pathway
Grade 11 or 12
Course Number 455
Full Year Course – 1 credit
Prerequisite: Human Body Systems
Estimated Fee: TBD
Recommended For: B, E, F, H, P

This is the third class in the biomedical program. Student projects investigate various medical interventions that extend and improve quality of life, including gene therapy, pharmacology, surgery, prosthetics, rehabilitation, and supportive care.

The course explores the design and development of various medical interventions, including vascular stents, cochlear implants, and prosthetic limbs. In addition, students review the history of organ transplants and gene therapy, and stay updated on cutting-edge developments via current scientific literature.

Using 3D imaging, data acquisition software, and current scientific research, students design a product that can be used as a medical intervention.

Biomedical Innovation

(Not offered until 2018-2019)
Biomedical Science Pathway
Grade 12
Course Number 465
Full Year Course - 1credit
Prerequisite: Medical Interventions
Estimated Fee: TBD
Recommended For: B, E, F, H, P

In the final course of the biomedical science sequence, this capstone course gives student teams the opportunity to work with a mentor, identify a scientific research topic, conduct research, write a scientific paper, and defend team conclusions and recommendations to a panel of outside reviewers.

Each student team has one or more mentors from the scientific or medical community guiding its scientific research. This course may be combined with the capstone course from the engineering pathway, allowing students from the pathways to work together to engineer a new health care-related product or process innovation.

Introduction to Engineering Design

Pre-Engineering Pathway
Grade 9
Course Number 438
Full Year Course - 1 credit
Prerequisite: Concurrent enrollment or completion of Mathematics 1
Estimated Fee: TBD
Recommended For: B, E, F

This is the introductory course in our engineering program. The major focus of the course is to expose students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. Students will use 3D solid modeling design software to help them design solutions to solve proposed problems, to learn how to document their work, and to communicate their solutions.

Principles of Engineering

(Not offered until 2016-2017)
Pre-Engineering Pathway
Grade 10
Course Number 448
Full Year Course – 1 credit
Prerequisite: Introduction to Engineering Design, Concurrent enrollment or completion of Mathematics 2
Estimated Fee: TBD
Recommended For: B, E, F

This is the second course in our engineering program. This course helps students understand the field of engineering and engineering technology. Students will explore various technology systems and manufacturing processes that will help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people.

The course also includes concerns about social and political consequences of technological change.

SOCIAL STUDIES

Social Studies at Mayfield High School

Students are required to take Social Studies courses during their 9th, 10th, and 12th grade years. There is a wide variety of elective courses available for students to take in their 10th, 11th, and 12th grade years.

Required Social Studies Courses

9th Grade	10th Grade	11th Grade	12th Grade
U.S. History in the 20th Century	World History		American Government
U.S. History in the 20th Century Honors	AP World History		AP. United States Government and Politics

Elective Social Studies Courses

9th Grade	10th Grade	11th Grade	12th Grade
	Current World Issues*	American History Through Film*	American History Through Film*
	Sociology 1*	AP Economics	AP Economics
	Sociology 2*	AP European History	AP European History
	AP Economics	AP U.S. History	AP U.S. History
		AP Psychology	AP Psychology
		Current World Issues*	Current World Issues*
		Psychology*	Psychology*
		Sociology 1*	Sociology 1*
*semester course		Sociology 2*	Sociology 2*

Required Social Studies Courses

United States History in the 20th Century

Grade 9
Course Number 231
Full Year Course - 1 credit
Prerequisite: None
Estimated Fee: $9.50
Recommended For: College Bound/Technical Education
Career: CORE

United States History is a selective in-depth study of the United States' social, cultural, intellectual, political, and economic development which will lead the student to a better understanding of his/her society. A combination of a chronological and topical approach is used to analyze the following aspects of American culture with the major focus on post-Civil War America: (1) democracy and the Constitution of the United States, (2) politics and political change, (3) urban-industrial America, (4) the labor movement in the U.S., (5) minority groups in a pluralistic society, (6) foreign relations, and (7) facing the future. Emphasis on the skills and knowledge needed to pass the end of course exam will be a major focus of the course.

United States History in the 20th Century Honors

Grade 9
Course Number 239
Full Year Course - 1 credit
Prerequisite: Recommendation
Estimated Fee: $9.50
Recommended For: College Bound
Career: CORE

U.S. History in the 20th Century Honors is a more rigorous and in-depth study of the material covered in the regular U.S. History class. Emphasis will be placed on improvement in essay composition, analysis and interpretation of original source materials, as well as assessing the relevance, reliability, and importance of other types of historical evidence. This course is recommended for all students planning to enroll in future Social Studies Advanced Placement offerings. Emphasis on the skills and knowledge needed to pass the end of course exam will also be a major focus of the course.

World History

Grade 10
Course Number 241
Full Year Course - 1 credit
Prerequisite: None
Estimated Fee: 18.50
Recommended For: College Bound/Technical Education
Career: CORE

This course is a general survey of world history from 1600 to the present and is the second component in preparation for the Social Studies Ohio Graduation Test. Focus is placed on Western civilization with an emphasis on cultural, philosophical, artistic, economic social and political growth. The last nine weeks detail the world since 1945, the role of the U.S., the end of the USSR, and the North-South economic confrontations. Emphasis on the skills and knowledge needed to pass the Ohio Graduation Test will also be a major focus of the course.

AP World History

Grade 10
Course Number 249
Full Year Course - 1 credit
Prerequisite: Recommendation
Estimated Fee: $18.50 and A.P. Test Registration
Recommended For: College Bound
Career: CORE

With recommendations from and the approval of the College Board, the Advanced Placement World History course work models a semester college course in World History.
It is a course that fulfills the World History credit requirement required by the State of Ohio for graduation. The purpose of the AP World History course is to develop greater understanding of the evolution of global processes and contacts in different types of human societies. This understanding is advanced through a combination of factual knowledge and analytical skills. The course highlights the nature of changes in global frameworks and their causes and consequences, as well as comparisons among major societies. It emphasizes relevant factual knowledge, leading interpretive issues, and skills in analyzing types of historical evidence. Specific themes provide further organization to the course, along with consistent attention to contacts among societies that form the core of world history as a field of study. Students enrolled in this course are required to take the A.P. exam in May.

This course is recommended for students planning on taking AP United States History, AP European History, and AP United States Government and Politics.

American Government

Grades 12
Course Number 261
Full Year Course - 1 credit
Prerequisite: None
Estimated Fee: $9.50
Recommended For: College Bound/Technical Education
Career: CORE

American Government is a comprehensive course required of all seniors. The course utilizes the foundations established by previous social studies courses and builds from these a more thorough understanding of current affairs and problems of our society and the world. The first semester is devoted to an examination of political theory, political parties, elective machinery, the political structure, and how it works. It also looks at the individual rights and civil rights of Americans long with the court system. Emphasis is placed on current political issues, elections, and problems facing America. Skills and knowledge to pass the end of course exam will also be a focus.

The second semester studies the economic system of the United States, basic economic concepts, and personal financial literacy.

AP United States Government and Politics

Grade 12
Course Number 269
Full Year Course - 1 credit
Prerequisite: Recommendation, AP U.S. History recommended
Estimated Fee: $18.50 and A.P. Test Registration
Recommended For: College Bound
Career: CORE

With recommendations from and the approval of the College Board, the Advanced Placement Government and Politics course work models a semester college course in Economics.

The Advanced Placement American Government course is designed to give students a critical perspective on politics and government in the United States. This course involves both the study of general concepts used to interpret American politics and the analysis of specific case studies. It also requires familiarity with various institutions, groups, beliefs, and ideas that make up the American political reality. In addition, this course is designed to help advanced students take the advanced placement college exam in May to help obtain college credit.
Students enrolled in this course are required to take the A.P. exam in May.

Elective Social Studies Courses

American History through Film

Grade 11-12
Course Number 276
Semester Course - 0.5 credit
Prerequisite: United States History and World History
Estimated Fee: None
Recommended For: College Bound/Technical Education
Career: A,P

Students will examine Hollywood feature films and historical dramas as historical evidence. Students will view movies on various American history topics and compare film evidence to information from more traditional sources, such as news articles, texts, primary sources, and critical commentaries.

The intent is to give students more practical critical analysis experience. Film will be used to motivate students to study important American history themes and topics with more depth and detail than in core history courses.

AP Economics

Grades 10-12
Course Number 289
Full Year Course - 1 credit
Prerequisite: Recommendation
Estimated Fee: $18.50 and A.P. Test Registrations
Recommended For: College Bound
Career: A,B,E

With recommendations from and the approval of the College Board, the Advanced Placement Economics course work models a semester college course in Economics. AP Macroeconomics and AP Microeconomics are elective courses designed to give students a thorough understanding of the principles of economics that apply to an economic system as a whole and at the individual firm level. The course places emphasis on the study of product and factor markets, while analyzing the government's role in preventing market failure. Focus is also placed on calculation of national income and price along with a concentration on developing a familiarity with economic performance measures, economic growth, and international economics. The course will also include units of study on the role of money and banking, fiscal, and monetary policies, as well as supply and demand in a market economy. Students will take two AP Tests in May, Microeconomics and Macroeconomics, which can be accepted as college credits. Students enrolled in this course are required to take the A.P. exam in May.

AP European History

Grades 11-12
Course Number 279
Full Year Course - 1 credit
Prerequisite: Recommendation
Estimated Fee: $18.50 and A.P. Test Registration
Recommended For: College Bound
Career: A,P

With recommendations from and the approval of the College Board, the Advanced Placement European History course work models a semester college course in European History.
As the name implies, this course centers on European history and concentrates on the time period from 1450 to the present. Emphasis is placed on different interpretations of European history and development of skills in working with statistical data, charts, graphs, maps, documents, and pictorial evidence of historical events. Students will improve skills in essay composition assessment of historical materials—their relevance, reliability and importance—as well as develop an awareness of the interrelationship between social, economic, political and international events in European history. Students enrolled in this course are required to take the A.P. exam in May.

AP United States History

Grades 11-12
Course Number 259
Full Year Course - 1 credit
Prerequisite: Recommendation
Estimated Fee: $18.50 and A.P. Test Registration
Recommended For: College Bound
Career: A,P

With recommendations from and the approval of the College Board, the Advanced Placement Unites States History course work models a first semester college course in US History.
The Advanced Placement United States History course prepares students for the Advanced Placement examination offered in May. This course is designed to acquaint the students with an in-depth account of United States History from colonial time through the administration of Richard Nixon. Emphasis is placed on different interpretations of American history and development of skills in working with statistical data, charts, graphs, maps, documents, and pictorial evidence of historical events. Students will improve skills in essay composition, assessment of historical materials—their relevance, reliability, and importance—as well as develop an awareness of the interrelationship between social, economic, political, and international events in American history. Students enrolled in this course are required to take the A.P. exam in May.

Current World Issues

Grades 10-12
Course Number 274
Semester Course - 0.5 credit
Prerequisite: None
Estimated Fee: $10.00
Recommended For: College Bound/Technical Education
Career: B,E,H,P

The purpose of Current World Issues is to provide a framework for students to study and understand the ongoing political problems the world community is experiencing today. It is an attempt to show the study of international relations as an introduction to the art and science of the survival of mankind. Current World Issues will expose the students to the global condition of the world in the later twentieth century. It will first attempt to get a "handle" on how world diplomacy developed before World War II and the radical changes that have taken place in world diplomacy in the post-World War II era. Secondly, all the regional areas will be studied with a look at present problems and the role the super power plays in them. Finally, the course will look to the future and possible solutions.

Psychology

Grades 11-12
Course Number 277
Semester Course - 0.5 credit
Prerequisite: None
Estimated Fee: None
Recommended For: College Bound/Technical Education
Career: A,B,H,P

In psychology, emphasis is placed on personality and the factors involved in the development of personality. This course allows the student to develop his/her own personality and human behavior in several ways. First, the student discovers how and why humans respond to their environment by exploring perception, memory and thought, the central nervous system, drives, and emotions. Next, students pursue a unit of study in learning. Basic conditioning concepts are dealt with, as well as factors that affect learning, such as motivation, feedback, and transfer.

AP Psychology

Grades 11-12
Course Number
Full Year Course – 1 credit
Prerequisite: Recommendation
Estimated Fee: $18.50 and AP Test Registration
Recommended For: College Bound
Career: A, B, H, P

With recommendations from and the approval of the College Board, the Advanced Placement Psychology course work models a first semester college course in Psychology. This course follows guidelines set by the The AP Psychology course is designed to introduce 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 of the major subfields within psychology. Topics include the biological basis of behavior, sensation and perception, altered states of consciousness, learning and memory, testing and intelligence, motivation and emotions, developmental psychology, personality theories, abnormal behavior and social psychology.

Sociology 1

Grades 10-12
Course Number 271
Semester Course - 0.5 credit
Prerequisite: Recommendation
Estimated Fee: None
Recommended For: College Bound/Technical Education
Career: A,B,H,P

Sociology 1 is intended to offer students an academic and scientific approach to the study of human interaction. Emphasis is placed on fundamental sociological concepts and principles. Numerous student activities are included in the program so that learning is enhanced through actual involvement. The course provides students with an understanding of the organization of cultures and societies. In addition, special attention is paid to the problem of social stability in society and the role of the individual as a member of social institutions.

Sociology 2

Grades: 10-12 Course Number 272
Semester Course - 0.5 credit
Prerequisite: Sociology 1
Estimated Fee: None
Recommended For: College Bound/Technical Education
Career: A,B,H,P

This course is intended to offer students an academic, scientific, and experimental approach to the study of social issues. Numerous student activities are included in the program that explores equal rights, poverty, ecology, population, and aging

SPECIAL EDUCATION

Special Education at Mayfield High School

The Special Education department serves students in four different programs:

- Cognitively Disabled Students
- Hearing Impaired Students
- Learning Disabilities Students
- Multi-Handicapped Students

These programs serve disabled students in grades 9 through 12. Eligibility for the program is determined by the standards set by the Ohio Division of Special Education. Individual needs and learning styles dictate each student's program. Students are provided viable alternatives within an integrated high school setting in either general education classes and/or intervention/resource classes taught by special education teachers. Students in these classes are taught the subjects required for graduation in a small group setting.

Special Education Courses

Cognitively Disabled

English SCC

Mathematics SCC

Science SCC

Social Studies SCC

Hearing Impaired

Career Focus*

Consumer Mathematics Intervention

English Resource

Health Resource*

Information Technology Intervention*

Learning Center

Mathematics Intervention

Mathematics Resource

Science Resource

Hearing Impaired (Continued)

Social Skills Communication 1*

Social Skills Communication 2*

Social Studies Resource

Study Skills*

Reading and Writing Fundamentals

*semester course

Learning Disabilities	**Multi-Handicapped**	**Adapted Courses**
Fundamentals of Reading and Writing	English SCM	Adapted Art **
Math Fundamentals	Health SCM*	Adapted Home Economics**
Learning Center	Independent Living Skills SCM*	Adapted Information Technology*
Social Skills Communication 1*	Mathematics SCM	Adapted Music**
Social Skills Communication 2	Pre-Vocational SCM	Adapted Physical Education*
	Science SCM	Adapted Photography *
	Social Studies SCM	

*semester course
**quarter course

Courses for Cognitively Disabled Students

English SCC

Grades 9-12
Course Number 841
Full Year Course - 1 credit
Prerequisite: Program Admission
Estimated Fee: None

English SCC is based on an individual's ability level and all activities are geared toward polishing the skills already known while adding to his/her body of knowledge. Students work on handwriting, grammar, spelling, listening, reading, and comprehension of materials read independently and those read by the teacher. All skills are aimed toward functional application, as well as reading for information and enjoyment.

Mathematics SCC

Grades 9-12
Course Number 845
Full Year Course - 1 credit
Prerequisite: Program Admission
Estimated Fee: None

Emphasis is placed on practical application of skills to the world of work and consumerism. Basic computation, counting of money and making change, measurement and time are continually developed as per each student's capabilities.

Science SCC

Grades 9-12
Course Number 844
Full Year Course - 1 credit
Prerequisite: Program Admission
Estimated Fee: $15.00

Students will be introduced to and/or will build on areas concerning land, animals, plants, water life, and environment, which includes conservation and recycling, basic mechanical awareness and the earth.

Social Studies SCC

Grades 9-12
Course Number 843
Full Year Course - 1 credit
Prerequisite: Program Admission
Estimated Fee: None

Social Studies is the practical application of being a responsible member of a family, community, and country. Activities include learning about current events, history, geography, and a general knowledge of how local, state, and the United States governments operate.

Courses for Hearing Impaired Students

Career Focus

Grades 9-12
Course Number 787
Semester Course - 0.5 credit
Prerequisite: Program Admission
Estimated Fee: None

Students are introduced to a variety of careers and the skills needed for these careers. Career games, OCIS (Ohio Career Information Systems), employability skills, transition behaviors, job applications, interviewing techniques and social skills on the job are some activities and areas that may be addressed in this course. Each student will have the opportunity to participate in a job shadowing experience.

Consumer Mathematics Intervention

Grades 11-12
Course Number 875
Full Year Course - 1 credit
Prerequisite: Program Admission
Estimated Fee: None

The primary goal of the consumer mathematics course is to prepare students to live and function independently in society. Taught by a special education teacher, instruction may include such areas as banking, financing, budgeting, taxes, insurances and wages. Practical application, as well as theory, will be addressed.

English Resource

Grades 9-12
Course Number 772
Full Year Course - 1 credit
Prerequisite: Program Admission
Estimated Fee: None

This course is designed to teach and reinforce oral and written language with objectives and goals covering all aspects of language: semantic (vocabulary), syntactic (grammatical), and pragmatic (functional use) skills. An appreciation of literature will be encouraged through a variety of resources.

Health Resource

Grades 9-12
Course Number 786
Semester Course - 0.5 credit
Prerequisite: Program Admission
Estimated Fee: None

This course is designed to promote health awareness, and to enable students to make healthy lifestyle choices. The health program includes the physical, mental and social development which may include the topics of stress, nutrition, sexuality, body systems, alcohol, tobacco and drug abuse, AIDS and other sexuality transmitted disease, first aid, accidents and aging.

Information Technology Intervention

Grades 9-12
Course Number 631
Semester Course - 0.5 credit
Prerequisite: Program Admission
Estimated Fee: None

Information Technology Intervention is designed to teach special education students the skills necessary to use the computer. Utilizing the Windows operating system, students may create documents incorporating Microsoft Word, Access, Excel, PowerPoint, Publisher and Internet programs. To meet the unique needs of special education students, this course incorporates necessary adjustments for students with disabilities in a cross-categorical manner by providing the least restrictive environment.

Learning Center

Grades 9-12
Course Number 896
Full Year Course – No credit
Prerequisite: Program Admission
Estimated Fee: None

Learning Center provides an opportunity for students to receive supportive services in academic classes. The goal is to help students experience success at the high school and benefit more fully from the classroom experience. The acquisition of study skills and acceptance of responsibility for learning are emphasized. Remedial instruction and strategies to compensate for deficit skill areas are taught through the use of content and/or supplemental materials. Supportive services include individual and small group instruction, and assistance in preparing for and taking tests. The Learning Center teachers maintain communication with classroom teachers and keep students informed of their progress. Students work to achieve individual IEP goals

Mathematics Resource

Grades 9-12
Course Number 780
Full Year Course - 1 credit
Prerequisite: Program Admission
Estimated Fee: None

Emphasis for this course is placed on basic mathematical skills. Students develop reasoning and application skills while reinforcing computation skills.

Mathematics Intervention

Grades 9-12
Course Number 876
Full Year Course - 1 credit
Prerequisite: Program Admission
Estimated Fee: None

This course gives students the foundation which will allow them to be successful with an algebra curriculum. Its content includes number sense fractions, decimals, percentages, integers, patterns, proportional reasoning, and percents. Mathematics Intervention works to prepare the students to move to the Mathematics 1 course. Topics covered include patterns, proportional reasoning, direct variation, linear equations, functions and inequalities. A scientific calculator is required for this course.

Science Resource

Grades 9-12
Course Number 782
Full Year Course - 1 credit
Prerequisite: Program Admission
Estimated Fee: None

Science classes are adapted to the language levels of the students. Content and skills are based on Mayfield's basic science curriculum which includes the areas of biology, physical science and chemistry. Class work incorporates hands-on practical activities. Language development, based on the concepts and activities of science is an important component.

Social Skills Communication 1

Grades 9-10
Course Number 775
Semester Course - 0.5 credit
Prerequisite: Program Admission
Estimated Fee: None

Students will be introduced to a variety of social skills through role-play, peer observation, group discussion, and exposure to social skills-based literature. This will be an interactive class where students will demonstrate the skills that are taught.

Social Skills Communication 2

Grades 9-11
Course Number 776
Semester Course - 0.5 credit
Prerequisite: Program Admission & Social Skills 1
Estimated Fee: None

This course will be a continuation of Social Skills 1. The goal is for the student to become more confident in their ability to communicate and be able to self-advocate.

Social Studies Resource

Grades 9-12
Course Number 774
Full Year Course - 1 credit
Prerequisite: Program Admission
Estimated Fee: None

Social Studies is designed to expose students to world, national, and local events, both past and present. Each student is encouraged to become a responsible and productive citizen with a basic understanding of his/her community and world. Course content is focused on one of the following areas: American and world history, geography, citizenship and government.

Study Skills

Grade 9-10
Course Number 895
Semester Course - 0.5 credit
Prerequisite: Program Admission
Estimated Fee: None

This course is designed for students who exhibit a lack of study/test preparation skills. The activities taught in this class would help students become successful in their academic coursework as well as prepare the student for state testing. This course will help students become independent learners. This course is primarily for ninth grade students.

Courses for Learning Disabled Students

English Intervention 11-12

Grades 11-12
Course Number 871
Full Year Course - 1 credit
Prerequisite: Program Admission
Estimated Fee: $8.95

This course is a combination of study and appreciation of American and British literature and will focus on the development of skills in reading comprehension, composition, grammar and vocabulary. The writing program will focus on research, literary analysis, and persuasive, narrative, and expository forms. A review of grammar, usage and mechanics will be incorporated through their application to the writing process. There will be an emphasis on vocabulary through the use of literature and a variety of exercises that allow students to utilize new words in reading, writing, and speaking. Admission to this class is by teacher recommendation.

Learning Center

Grades 9-12
Course Number 896
Full Year Course – No credit
Prerequisite: Program Admission
Estimated Fee: None

Learning Center provides an opportunity for students to receive supportive services in academic classes. The goal is to help students experience success at the high school and benefit more fully from the classroom experience. The acquisition of study skills and acceptance of responsibility for learning are emphasized. Remedial instruction and strategies to compensate for deficit skill areas are taught through the use of content and/or supplemental materials. Supportive services include individual and small group instruction, and assistance in preparing for and taking tests. The Learning Center teachers maintain communication with classroom teachers and keep students informed of their progress. Students work to achieve individual IEP goals.

Social Skills Communication 1

Grades 9-10
Course Number 775
Semester Course - 0.5 credit
Prerequisite: Program Admission
Estimated Fee: None

Students will be introduced to a variety of social skills through role-play, peer observation, group discussion, and exposure to social skills-based literature. This will be an interactive class where students will demonstrate the skills that are taught.

Social Skills Communication 2

Grades 9 - 11
Course Number 776
Semester Course - 0.5 credit
Prerequisite: Program Admission
Estimated Fee: None

This course will be a continuation of Social Skills 1. The goal is for the student to become more confident in their ability to communicate and be able to self-advocate.

Study Skills

Grade 9 - 10
Course Number 895
Semester Course - 0.5 credit
Prerequisite: Program Admission
Estimated Fee: None

This course is designed for students who exhibit a lack of study/test preparation skills. The activities taught in this class would help students become successful in their academic coursework as well as prepare students for state testing. This course will help students become independent learners. This course is primarily for ninth grade students.

Math Fundamentals

Grade 9
Course Number 876
Full Year Course: No Credit
Co-requisite: Mathematics 1 and Recommendation
Estimated Fee: None
Recommended For: Supplemental Support
Career: CORE

This course is for 9th grade students that need one more year of development before entering Math 1. This course will both strengthen understanding of major concept and topics from previous math courses an preview major content from future courses. Topics and content covered include number sense, formulating and reasoning about expressions and equations, analyzing two- and three-dimensional space and figure using distance, angle, similarity an congruence, linear functions and an introduction to exponential functions.

Reading and Writing Fundamentals

Grades 9-10
Course Number 789
Semester Course - 0.5 credit-1 credit
Prerequisite: Program Admission
Estimated Fee: None

This course is designed to provide remediation to identified students who are simultaneously enrolled in English 9 (English 10). Students will receive instruction in decoding skills, vocabulary development, and comprehension strategies that is aligned with the English 9 (English 10) curriculum. In addition the course will provide a strong foundation for written communication. Students will learn to plan, organize and compose multi-paragraph essays with sufficient supporting details. Revision strategies will be taught as part of the writing process. Instruction in written communication will also be aligned with the English 9 (English 10) curriculum.

Courses for Multi-Handicapped Students

English SCM

Grades 9-12
Course Number 811
Full Year Course - 1 credit
Prerequisite: Program Admission
Estimated Fee: None

English is individualized by ability level, and all activities are geared toward practical application to the world of work. Following directions, listening, a functional vocabulary, relating information, and being able to express needs/wants are the primary focuses.

Health SCM

Grades 9-12
Course Number 818
Semester Course - 0.5 credit
Prerequisite: Program Admission
Estimated Fee: None

Emphasis is placed on understanding facts about the human body; health measures and prevention of diseases; nutrition; personal hygiene, abuse and misuse of tobacco, alcohol and drugs; basic first aid and safety practices in the home, school, work and community.

Independent Living Skills SCM

Grades 9-12
Course Number 816
Semester Course - 0.5 credit
Prerequisite: Program Admission
Estimated Fee: None

Students develop skills needed to function as independently as possible through practical experiences gained in the kitchen, the community, and the school.

Mathematics SCM

Grades 9-12
Course Number 815
Full Year Course - 1 credit
Prerequisite: Program Admission
Estimated Fee: None

Mathematics is based on an individual's ability level. All activities are directed toward handling of money; use of coupons; the concepts of counting, sorting, and matching; and one-to-one correspondence.

Science SCM

Grades 9-12
Course Number 817
Full Year Course - 1 credit
Prerequisite: Program Admission
Estimated Fee: None

Science is the practical application of how to dress for the weather, basic first aid, recycling, and conservation. Students spend time in the community where they apply the concepts.

Social Studies SCM

Grades 9-12
Course Number 813
Full Year Course - 1 credit
Prerequisite: Program Admission
Estimated Fee: None

Social Studies involves gaining knowledge and practical application about the laws of the community, school, state, and federal governments.

Pre-Vocational SCM

Grades 9-12
Course Number 819
Full Year Course - 1 credit
Prerequisite: Program Admission
Estimated Fee: None

Students are introduced to, and continue to build on, a variety of jobs, which require following directions, cooperating with a supervisor and co-workers, and setting up and putting away needed materials while increasing speed, accuracy, and endurance.

Adapted Courses

Adapted Art

Grades 9-12
Course Number 705
Quarter Course - 0.25 credit
Prerequisite: None
Estimated Fee: $20.00
Recommended For: Special Education
Career: A,B,C

Adapted Art is a course designed for special education students. Art projects are based on the elements of art: line, shape, color, value, texture and space. Students learn a variety of art techniques using different media. Manipulation of various materials, improvement of motor skills and eye hand coordination, and proper use of materials are stressed for physical and cognitive development.

Adapted Home Economics

Grades 9-12
Course Number 648
Quarter Course - 0.25 credit
Prerequisite: Program Admission
Estimated Fee: $40.00

This basic cooking class focuses on recipe reading, socializing at the table, table manners, measurement, tools, equipment, and safety in the kitchen. The students will have an opportunity to use the microwave oven and stove, as well as many small appliances.

Adapted Information Technology

Grades 9-12
Course Number 628
Quarter or Semester Course - 0.5 credit
Prerequisite: Program Admission
Estimated Fee: none

The Adapted Information Technology class is designed to provide the students with basic skills in using the computer. The projects used in the class are designed to meet the individual needs and abilities of the students.

Adapted Photography

Grades 9-12
Course Number 698
Quarter Course or Semester - 0.5 credit
Prerequisite: Program Admission
Estimated Fee: none

Learn the basics of digital photography. How to care for your camera and equipment, how to care for and maintain the equipment. How to take pictures, load them on to a computer and what to do with them once they are on the computer. We will also learn what the symbols on your camera mean and when to use them.

Explore manual settings for more artistic control, by learning how to set your own film speed, aperture and shutter speed. We will also learn when to use a flash and explore taking shots, landscape and portraits.

This class will enable you to practice and apply what you learn using your own camera.

Adapted Music

Grades 9-12
Course Number 574
Quarter Course or Semester - 0.25 credit
Prerequisite: Program Admission
Estimated Fee: none

The Adapted Music class is designed to focus on individual abilities by providing a sense of security and success in music making, whether it be "hands-on" playing of instruments, body movement, or singing.

Adapted Physical Education

Grades 9-12
Course Number 748
Semester Course - 0.25 credit
Prerequisite: None
Estimated Fee: $2.50
Recommended For: Special Education
Career: CORE

The Adapted Physical Education program is designed to accommodate students by using the least restrictive environment. The behavior objectives are written to be challenging yet attainable by each individual student. The activities and sports are those found in the regular curriculum: leisure-time activities, team sports, individual activities, and a host of fitness activities. Because of the nature of the students, the team sports are quite modified and often reduced to one-on-one or two-on-two experiences.

SPECIAL PROGRAMS

Senior Search

Grade 12
Course Number G031
4th quarter course – 0.0 credit
Prerequisite: Must have enough credits to meet graduation requirement, at least a 70% or higher in all classes by the end of the third quarter, carry a 2.0 GPA for first semester, no more than 10 absences for the school year (without medical excuse), no more than seven unexcused tardies per quarter, and no out of school suspensions.
Estimated Fee: None
Recommended For: College Bound/Technical Education
Career: A,B,E,F,H,P

The senior search program is designed to provide seniors with the opportunity to intern on meaningful projects of their own selection and design. The program operates during the final four weeks of the senior year, starting after progress reports are issued, and ending on Honors Day. Students will drop all classes and work on the project a minimum of six hours per day. Students enrolled in AP courses will begin the project after their respective exams.

Project Design

Acceptable projects generally fall into three categories:

1. An empirical study relevant to career technical objectives, which involves an evaluation of the student's work experience.

2. An internship, which entails shadowing, training, and the completion of various tasks or projects directly related to career objectives.

3. An involvement in a community problem, which encompasses defining the problem and its importance to the community's well-being. This involvement needs to include a case study of the problem, a service project with a goal of remediation of the problem, and an evaluation of the value of the project with implications for further study.

Special details about the senior search program will be provided to interested seniors after the start of second semester. A student cannot be paid during the work experience, nor can he/she participate in the Senior Search program with a business or organization in which a relative is an owner, manager or employee.

Wildcat Focus

Grade 9
Course Number 994 or 995
Full Year Course – 0.0 credit
Prerequisite: none
Recommended For: College Bound/Technical Education
Estimated Fee: $15.00
Career: Core

Wildcat Focus is a comprehensive program which provides the freshmen students with a supportive, friendly, environment, provided under the guidance of upperclassmen peers that eases the transition from middle school to high school. Special emphasis is placed on aiding students with the social and academic components of adjusting to high school life. The program is required and is a full year class. Freshmen students take this class during half of their lunch period and will have opportunities with their mentors to explore what Mayfield has to offer and take advantage of the opportunity to get acclimated to the environment of Mayfield High School.

Wildcat Focus Mentor

Grades 11-12
Course Number G041
Full Year Course – 1.0 credit
Prerequisite: Application and acceptance into the mentor program
Recommended For: College Bound
Estimated Fee: None
Career: A,B,P

Wildcat Focus is designed to cover a myriad of topics that a ninth grade student needs to know for social and academic success at Mayfield High School. Lessons include stressing the importance of school spirit, using the libraries, learning effective note taking and study skills, getting along with others, and much more. A key component of the Wildcat Focus program is mentorship. Built into Wildcat Focus is the opportunity for new ninth grade students to learn from and model the behavior of respected upper-class students.

A group of student leaders and a teacher will be assigned to every group of new ninth grade students. Developing a close guiding relationship with the new ninth grade students is the ultimate goal of a mentor. A Wildcat Focus mentor will serve as a model for the entire school body.

The responsibilities of mentor will be to:

- Assist faculty advisors
- Meet with approximately five new ninth grade students on a daily basis during the Wildcat Focus period
- Tutor struggling ninth grade students in areas of concern
- Teach mini-lessons that are part of the curriculum
- Lead small group discussions
- Update students and review information about school events, procedures and rules
- Meet on Wednesday mornings with the Wildcat Focus coordinators or counselors
- Attend two mentoring training sessions during the summer
- Help at the Ninth Grade Orientation in August
- Attend Wildcat Focus sponsored activities

TECHNICAL EDUCATION

Excel TECC Programs

Auto Mechanics I & II

Business Academy I & II

CADD Engineering Technology I & II

Construction Trades I & II

Cosmetology I & II

Culinary Arts I & II

Digital Arts & Technology I & II

Early Childhood Education I & II

Fire/EMS Training Academy I & II

Information Technology & Programming I & II

Interactive Media I & II

Marketing Communications (Seniors Only)

Medical Technologies I & II

Performing Arts Academy I & II

Studio Art & Design I & II

Environmental Education Programs

- Cleveland Botanical Garden
- Floriculture and Gardening Operations
- Landscape and Turf Operations

Intervention Programs

- Agriculture Career Exploration I & II
- Career Based Intervention
- Job Training

The course fees listed reflect an ESTIMATE that is subject to further review, evaluation and Board approval. Its intended purpose is to illustrate the potential cost to the course enrollee and should not be considered FINAL.

Technical Education Courses

Auto Mechanics I

(Brush High School)
College Tech Prep
Grade 11 (Course Numbers 931/932)
3 credits (2 Lab, 1 Related)
Prerequisite: Interview by the Instructor. By program start date student must have completed coursework required for junior status at their home school including seven (7) credits with a mandatory two (2) credits each earned in English and Mathematics.
Estimated Fee: TBD
Recommended For: College Bound/Technical Education
Be sure to read all requirements of the Auto II program before committing to this program.

The Auto Technology program is a NATEF (National Automotive Technical Education Foundation) and an ASE (Automotive Service Excellence) Certified Master two-year intensified program designed to prepare the student entering into the automotive world on an apprenticeship level. Areas studied include: Brakes, Steering & Suspension, Electrical, Engine Performance, Air Conditioning, Engine Rebuild, Manual and Automatic Transmissions. Emphasis is also placed on the career options available in the automotive world, including parts manager, sales manager. Brush High School's provision of equipment supplies and instructional materials is the same as or better than that found in professional work facilities. The content of this technical program realistically reflects the requirements of the labor market. Each day the program will entail one period of related class, where book learning will enhance the practical experience in the lab, followed by two periods of lab, where theory lessons are applied.
Students can earn college credit through Tri-C for successfully completing the program.

Auto Mechanics II

(Brush High School)
8 semesters of college credit through CT2
Grade 12 (Course Numbers 950/951)
3 credits (2 Lab, 1 Related)
Prerequisite: Auto Mechanics I
Estimated Fee: TBD
Recommended For: College Bound/Technical Education

Theory and lab continues in the senior year with trouble shooting contests and Early Placement as year-end goals. Students may be placed into the automotive field during their (second semester) senior year, providing on-the-job experience while still in high school. Early job placement is dependent upon the student's readiness as determined by the instructor. All students will be required to take the NATEF end of course test. Students can earn college credit through Tri-C, as well as CT2 college credit for successfully completing the program.

Business Academy I & II

(Mayfield High School)
College Tech Prep
Grade 11 (Course Numbers 905/906)
Grade 12 (Course Numbers 909/910)
3 credits each year (2 Lab, 1 Related)
A maximum of 14 college credits are available through Cuyahoga Community College.
Prerequisite: Interview by Instructor. By program start date student must have completed coursework required for junior status at their home school including seven (7) credits with a mandatory two (2) credits each earned in English and Mathematics.
Estimated Fee: $175
Recommended For: College Bound/Technical Education

The Business Academy is a dynamic, comprehensive program which will introduce students to the exciting professional world of Business. Students will explore several diverse career areas

including Entrepreneurship, Marketing, eCommerce, Management, Personal Finance, Project Management, International Business, Business Law, Finance, Operations and Management.
The objectives of the Business Academy are to prepare students for transition to college, technical school or employment and to connect, collaborate and compete in a global economy. An emphasis on communication, critical thinking, strong work ethic, goal setting, productivity, leadership and teamwork will provide students with a solid foundation for success. Students will be encouraged to participate in an Internship experience during their senior year.
Course content will include creating a viable Business Plan, Personal Financial Literacy, Marketing, Ethics, Finance, Social Responsibility, developing Business Relationships, Leadership, Customer Relations, and Professional Development. The latest technology will be fully integrated to facilitate and foster collaboration and Teamwork in a professional environment.

CADD Engineering Technology I (Computer-Aided Design/Drafting)

(Mayfield Innovation Center)
College Tech Prep
Grade 11 (Course Number 921)
3 credits (2 Lab, 1 Related)
Prerequisite: Interview by Instructor. By program start date student must have completed coursework required for junior status at their home school including seven (7) credits with a mandatory two (2) credits each earned in English and Mathematics.
Estimated Fee: $200
Recommended For: College Bound students.

High school students interested in any engineering or Architectural field, with strong mathematics & science skills, an interest in how things are made and work and an interest in design and product invention, are ideal candidates for the CADD Engineering Technology course. Students who complete the program have the opportunity to earn up to sixteen semester hours of college credit.

CADD I, the first year of a two-year program located at Mayfield Innovation Center meets daily for lab and lecture activities. The program gives high school juniors interested in Science, Technology, Engineering, & Mathematics (STEM) careers a head start on mastering core concepts and techniques critical to success in these areas. CADD, a College Tech Prep program, stresses academic/scholastic achievement, problem-based technical skill development, and work ethics principles critical to success beyond high school. Foundational knowledge such as engineering vocabulary, principles, practices, and techniques form the basis for interactive daily lessons. Competencies include mechanical, manufacturing, electronic and fluid topics such as 2D & 3D design, assembly drawings, product simulation, stress analysis, computer numerical control, rapid prototyping/3d printing, electricity and manufacturing operations. Students use cutting-edge software and tools in daily class activities and competitions for key exposure to engineering fields for the future. Specific software program selections may vary, but will include AutoCAD and Solidworks applications. Students may also have the opportunity to intern with outside businesses.

CADD Engineering Technology II (Computer-Aided Design/Drafting)

(Mayfield Innovation Center)
College Tech Prep
3 semester college credits through CT2
13 credits through Lakeland Community College
Grade 12 (Course Number 922)
3 credits (2 Lab, 1 Related)
Prerequisite: CADD I
Estimated Fee: $200
Recommended For: College Bound/Technical Education

CADD II, a continuation of the CADD I program, builds on previously learned concepts and principles. Competencies focus on Architectural design, including site/foundation planning, plan development and electrical, mechanical and structural concepts. Later in the year, emphasis is placed on developing specialization(s) within Engineering or Architectural areas of interest. The instructor will assume more of a facilitating role working one on one with each student. Students will be involved in collaborative and independent learning activities based on individual interest and competitions. Students may also have the opportunity to intern with outside businesses. New concepts and techniques will be exposed based on student interest, pace of CADD I, and outside involvement and/or need(s) of corporations, colleges, and the community.

Construction Trades I & II

(Mayfield High School)
Grade 11(Course Numbers 940/941)
Grade 12 (Course Numbers 914/915)
3 credits each year (2 Lab, 1 Related)
3 credits through Cuyahoga Community College
6 credits through Lakeland Community College
Prerequisite: Interview by Instructor. By program start date student must have completed coursework required for junior status at their home school including seven (7) credits with a mandatory two (2) credits each earned in English and Mathematics.
Recommendations: Good attendance and discipline records.
Estimated Fee: $230
Recommended For: Technical Education

The Construction Trades program will prepare students to enter the workforce or to continue education at the post-secondary level. Students will learn basic skills in construction management, safety and in the following trade areas: house framing, masonry, gutters, siding, roofing, plumbing, electrical, painting, carpentry, deck building, dry wall, floor coverings, wall-papering and simple home repairs by building homes in the classroom. Students will also experience onsite work learning, how to estimate jobs along with reading blueprints. Students will get the chance to get real life job experience by providing home improvements in the community. In the second year of Construction Trades students will have the opportunity to maintain a construction related job during the day. Students would work a minimum of 15 hours per week, and must provide their own transportation. Students will be required to take an end of course test.

Cosmetology I

(Mayfield High School)
Grade 11 Course Numbers (916/942/55/495)
5 credits (1 Theory, 2 Lab, 1 English 3, 1 Anatomy/Chemistry)
Prerequisite: Interview by Instructor. By program start date student must have completed coursework required for junior status at their home school including seven (7) credits with a mandatory two (2) credits each earned in English and Mathematics.
Be sure to read all requirements of the Cosmetology II program before committing to this program.
Recommendations: Good disciplinary and attendance record– 90% attendance record is required to take State test.
Estimated Fee: $470 Fee includes student kit/books
Recommended For: Technical Education/College Bound or strong interest in massotherapy, fashion design.

Students must be on track for graduation credit-wise. If the student fails the English 3 or Chemistry class, the students must take and pass the class in summer school to continue in the Cosmetology II program. If the student fails the Cosmetology I Lab or Theory, they will not be able to advance to the Cosmetology II program.

The lab training consists of learning manipulative skills such as hair cutting, hair styling, hair tinting, permanent waving, blower styling, hot iron styling, manicuring, and facials. Early in the program, students practice on mannequins. As they progress in skills and hours of instruction, they may practice on customers. Students take Anatomy/Chemistry and English to provide the information required to understand the concepts from such a wide range of fields. These include the theory of anatomy; physiology; histology of the skin, scalp, hair, and nails; cosmetic chemistry; bacteriology; sterilization and sanitation safety; salesmanship; salon management and communication skills. In addition, students study disorders of the skin, scalp, hair and nails. All areas covered in English, Anatomy/Chemistry, Theory and Lab will be part of the State Board of Cosmetology Exam. These courses must be passed to be eligible to take the State Exam.

Cosmetology II

(Mayfield High School)
Grade 12 (Course Numbers 943/944/952/165)
5 credits (1 Theory, 2 Lab, 1 English 4, 150 Internship hours required to meet State Board Criteria)
Students must be able to provide their own transportation to and from the Internship
3 college credits available through Lakeland
Prerequisite: Successful completion of Cosmetology I
Attendance – 90% is required to take State Board Test
Estimated Fee: $330.00
Recommended For: Technical Education/College Bound or strong interest in massotherapy, fashion design, and medical skin care

The Cosmetology II course is designed to assist the student in developing specific skills and scientific knowledge to become a cosmetologist. The major part of the cosmetologist's education is devoted to developing and mastering essential specific manipulative skills.

These competencies include applying chemical preparations to beautify the skin, hair and nails, as well as the principles of hair design and the techniques of altering the hair structure to create various styling effects. The students operate a professional customer clinic. Business management provides the student with the principles needed to plan and operate a salon as a successful business. The course is also designed for the student to develop such qualities as responsibility, courtesy, leadership, quality workmanship, and the development of desirable personality traits. A mathematics course must be taken during either the junior and senior year at the home school. In order to be eligible to take the State exam, students must pass junior and

senior English, junior chemistry, and both years of lab and theory, and participate in 150 hours of Internship after school under the supervision of a managing cosmetology licensee. The internship is one managing cosmetology licensee per student placement. All appropriate forms must be completed prior to the start of the Internship. The student must be in good standing in the cosmetology program before they are given permission by the cosmetology instructor to participate in the Internship program. Students must also meet the attendance requirements.

Upon successfully passing the State Board of Cosmetology exam, the student will be licensed to work in a salon. Students can also earn 20-30 hours towards an Associate Technical Study degree.

Culinary Arts I

(Beachwood High School)
Career Technical Credit Transfer Program (CT2)
Grade 11 (Course Numbers 946/947/499)
4 credits (2 Lab, 1 Related, 1 Culinary Science)
Prerequisite: Interview by Instructor. By program start date student must have completed coursework required for junior status at their home school including seven (7) credits with a mandatory two (2) credits each earned in English and Mathematics.
Estimated Fee: $295
Recommended For: College Bound/Culinary Art Schools

The purpose of the Culinary Arts I program is to offer on-site training in our public restaurant to high school juniors showing interest and aptitude for the food service industry. The first year of this two-year sequence consists of a supervised in-school restaurant experience and related instruction. Using the nationally recognized ProStart curriculum, students will develop basic skills in food preparation, service and sanitation. They will learn the basic skills of large quantity food preparation, proper use and care of materials and equipment, compliance with state and local sanitary codes, organizational structure, job descriptions, planning, production, food ornamentation, catering and dining service. Culinary Arts I also focuses on Serve Safe Training and Certification. Successful completion of this training may be applied toward college requirements. This certification program is an industry standard. The Culinary Arts I program meets for 3 ¾ hours daily. (10:00 a.m. – 1:45 p.m.) Students drive or take a bus directly to Beachwood after completing required classes at their home schools in the morning.

Culinary Arts II

(Beachwood High School)
Career Technical Credit Transfer Program (CT2)
6 semester credits through CT2
Grade 12 (Course Numbers 948/949/388)
5 credits (1 Culinary II Related, 1 Culinary Math, 3 Paid Internship)
Prerequisite: Culinary Arts I
Estimated Fee: $120
Recommended For: College Bound/Culinary Art Schools

This program meets for 1-1/2 hours daily. (7:45 a.m. – 9:15a.m.) Students drive or take a bus directly to Beachwood in the morning and return to their home school for the remainder of the school day. The internship component allows the students to work in the food industry after school and weekends a minimum of 12.5 hours per week to receive credit and earnings. Students must provide their own transportation.

The Culinary Arts II ProStart curriculum is endorsed by the National Restaurant Association Educational Foundation and provides each student earning a certificate of achievement with articulated college credit. ProStart teaches culinary mathematics, restaurant business management and marketing techniques and industry career information. Topics such as: employability skills, menu planning & design, cost

extension/markup, restaurant design and equipment analysis are also addressed.

Digital Arts and Technology I & II

(Aurora High School)
College Tech Prep
College credits available through Cuyahoga Community College
3 credits each year
Grade 11 2 Lab, 1 Related (974/977)
Grade 12 2 Internship, 1 Related (987/988)
Prerequisite: Interview by the Instructor. By program start date student must have completed coursework required for junior status at their home school including seven (7) credits with a mandatory two (2) credits each earned in English and Mathematics.
Recommended GPA: 2.5 or better
Estimated Fee: $170
Recommended For: College Bound/Technical Education
Be sure to read all requirements before committing to this program.

The Digital Arts & Technology program is geared towards the students who are interested in digital photography, videography, and audio engineering. Students will receive training on how to market the aforementioned skills and advance their careers or post secondary education. Basic photography and camera skills are taught using our array of DSLR cameras, studio lighting, strobes, and software such as Adobe Lightroom and Photoshop. The videographer component of the program involves music videos, short films, documentaries, presentations and special effects. Students utilize high-end cameras and software to professionally edit video. A third tier of Digital Arts & Technology is audio engineering. We use industry standard audio recording and mixing software and Avid Pro Tools. Students will learn the basics of audio by means of recording techniques, microphone placement, and mixing. First year students meet every day in the morning where all aspects are taught to a basic level. Students will be encouraged to gravitate towards their desired area of specialization.

Throughout the two years, students will learn 21st century skills in digital arts, professional networking, and technology. Students will create their own portfolios that they will take with them into the job market. Most importantly, everything is taught from a business standpoint so these skills can be utilized in the business world. **Three days a week students must obtain and maintain an internship to which they must provide their own transportation.** Students are able to work for, and alongside professionals in the related field. This internship opportunity will provide unparalleled real life experience, help develop respect and understanding for the field and provide a foundation for professional network.

Early Childhood Education I

(Fairmount Early Childhood Center at Beachwood)
College Tech Prep
Grade 11 (Course Number 937)
3 credits (2 Lab, 1 Related)
Prerequisite: Interview by Instructor. By program start date student must have completed coursework required for junior status at their home school including seven (7) credits with a mandatory two (2) credits each earned in English and Mathematics.
Estimated Fee: $140
Recommended For: Students who want to pursue a degree in education or related field
Be sure to read all requirements of the Early Childhood II program before committing to this program.

The Early Childhood Education program prepares students to fill a vital role in the education of young children. This program teaches content knowledge in child development, preschool and elementary curriculum, preschool early content standards and early childhood theory. High school students receive the opportunity to teach and care for young children in many

different early learning environments, pre-schools and elementary school settings. The first year stresses basic skills needed to work with children of all ages. Students travel with the instructor to four different lab schools to develop the concepts and skills needed to work with children. Music, art, storytelling, along with health, safety, and classroom management and guidance skills are included in the curriculum. Completion of the first year earns 3 high school credits (2 lab, 1 related) and leads into the second year of the program where students are working in internships with young children.

Early Childhood Education II

(Fairmount Early Childhood Center at Beachwood)
College Tech Prep
3 college credits through Cuyahoga Community College
Grade 12 (Course Number 938)
3 credits (2 Lab, 1 Related)
Prerequisite: Successful completion of Early Childhood Education I.
Estimated Fee: $140
Recommended For: Students who want to pursue a degree in education or related field

The second year of the Early Childhood Education program further develops content knowledge and essential teaching skills and strategies necessary to become a professional or teacher ready to work with children of all ages. The students apply knowledge of child development and best practices while working in internships with young children for the entire school year. Successful completion of the second year, earns students another 3 high school credits (2 lab, 1 related).Students who meet both attendance and academic requirements set by area colleges will be awarded credits towards a two or four year degree in Early Childhood Education, Elementary Education or another field related to Child Development.

Fire/EMS Training Academy I & II

Partnered with Cuyahoga Community College
22 semester credits available through CT2
EMT Basic (Tri- C East Campus)
Firefighting Level I &II (Tri-C West Campus)
College Tech Prep
Grade 11 (Course Number 981)
Grade 12 (Course Number 982)
3 credits each year (2 Lab, 1 Related)
Estimated fee: $150/year
Pre-requisite: Interview by the instructor. By program start date student must have completed coursework required for junior status at their home school including seven (7) credits with a mandatory two (2) credits each earned in English and Mathematics. **To enter the EMT/Fire Academy all students are required to have a physical on file by the start of their senior year.**
Recommendations: Good disciplinary record
Recommended For: College Bound/Technical Education
Be sure to read all requirements before committing to this program.

Would you rather fight fires and cut up cars, or push papers? Do you prefer working in a fast paced environment or sitting behind a desk? Do you have passion, discipline, drive, courage, self motivation, and most importantly, the concern for the well being of others and the desire to give back to the community? If you have what it takes to become a Firefighter and EMT and you are in good physical condition, look no further!

The Fire/EMS Training Academy is partnered with Cuyahoga Community College and is a two year commitment. Students have the potential (provided you meet all requirements of the program) to take the State of Ohio Emergency Medical Technician and Professional Firefighter Exam. Upon completion, students will be immediately employable after graduation.

The first year students learn the foundations of the Firefighting and EMS field, featuring a wide variety of practical learning

experiences and related academic classes. Students will be exposed to and become proficient in foundational skills necessary in the Fire and EMS career, including:

- Communications
- Leadership and teamwork
- Problem solving skills
- Safety and wellness
- Ethical and legal responsibilities
- Employability Skills

In addition, students will receive CPR and First Aid training.

The second year, students will spend the first semester taking their EMT at Tri C Eastern Campus and the second semester is spent at Tri C Western Campus attending the Fire Academy. It should be stressed that the EMT and Firefighting programs are at a college level and students must achieve and maintain an 80% grade average and meet the attendance requirements in order to be eligible to sit for the State examination.

Information Technology and Programming I & II

(Mayfield High School)
College Tech Prep
Grade 11 (Course Numbers 927/939)
Grade 12 (Course Numbers 945/930)
10 college credits through Lakeland Community College
9 semester credits through CT2
3 credits each year (2 Lab, 1 Related)
Prerequisite: Interview by Instructor. By program start date student must have completed coursework required for junior status at their home school including seven (7) credits with a mandatory two (2) credits each earned in English and Mathematics.
Recommendations: Good attendance and disciplinary record
Estimated Fee: Year 1$175; Year 2 $195
Recommended For: College Bound Students Pursuing High Tech Careers

Information Technology and Programming (ITP) is highly recommended for students with interests in any area of computer technology including programming, software and web development, game development, mobile applications development, database, information systems and computer maintenance and repair. ITP provides the opportunity for students to continue their education following high school at university, community college or technical school, prepared to earn an Associates' or Bachelors' Degree. Students have the potential to earn up to 16 semester hours of college credit through Ohio College Tech Prep and Ohio Board of Regents University System of Ohio.

ITP is highly regarded as one of the top Information Technology programs in Ohio. Since 2002, ITP students have earned numerous major team and individual-student awards on the regional, state and national levels of competition including four consecutive Skills USA National Championships for Tech Prep Information Technology. Since 2001 over 95% of ITP graduates have enrolled in post-secondary education including two and four- year colleges and universities as well as technical programs and elite military training programs.

Over the two years of ITP the following topics are learned: programming logic & modular design, principles of web design, operating systems technology, programming languages, website development, networking, database and computer applications; problem solving techniques and methodology; teamwork, leadership and professionalism skills; communication, technical writing, public speaking and employability skills. In the first year, all core-competency areas are covered providing a solid foundation on which our students can choose to build their future. In

the second year, ITP students have the opportunity to choose their concentration area from a selection of Programming with C#, Programming with Java, Java Games Development, Mobile Applications Development, Web Design with Adobe Creative Suite or A+ Certification for Computer Hardware/Software Maintenance and Repair. The second year is further enhanced by collaboration with organizations such as Toastmasters International, Progressive Insurance Company's Enterprise Technology Group, and many other business and industry partners that provide Experiential Learning Opportunities for the ITP students. Competitive events give ITP students a realistic feeling for the high stakes nature of business and industry in our global economy. Through professional organizations such as Skills USA and Ohio College Tech Prep, ITP students have the opportunity to compete on the local, regional, state and national level as individuals or teams.

Interactive Media I & II

(Mayfield High School)
College Tech Prep
Grade 11 (Course Numbers 923/924)
Grade 12 (Course Numbers 907/908)
3 credits each year (2 Lab, 1 Related)
Students can earn 12-15 college credits for Lakeland Community College, Tri-C and the Art Institute of Pittsburgh after successfully completing the IM program.
Satisfies Mayfield Technology requirement
Prerequisite: Interview by instructor, with portfolio samples of hand drawn or digitally created artwork. By program start date student must have completed coursework required for junior status at their home school including seven (7) credits with a mandatory two (2) credits each earned in English and Mathematics.
Recommendations: Good attendance record.
Estimated Fees: 11th grade - $150; 12th grade - $130
Recommended For: College Bound/Technical Education

Interactive Media (IM) is highly recommended for students with interests in the area of art combined with digital technology such as digital art and design, digital photography, graphic design, animation, web authoring, special effects video, 3D design, and emerging interactive multimedia technologies.

The computer hardware found in the classroom matches the professional graphic arts work environment. Students utilize digital drawing tablets, scanners, digital photo and video cameras, lighting and sound equipment, and computers with dual display monitors. Interactive Media students learn to use professional level computer software for design, image editing, drawing and animation, special effects video, web authoring, 3D design, vector graphics and desktop publishing.

Students become confident communicating effectively and professionally with adult clientele by working with local non-profit organizations and small business clients in the classroom. Interactive Media students have done award winning projects for clients that include the Lake County Metroparks and the Hungarian Society of Cleveland. Students will have high probability for employment in a 21st century career in the arts because computers are the standard tools for many jobs in the art industry today. Interactive Media provides the opportunity for students to continue their education following high school at university, community college or technical. Also included in the student's learning will be Business, Economics and customer service concepts as well as leadership, teambuilding, communication and problem solving skills.

Marketing Communications

(Beachwood High School)
College Tech Prep
Grade 12 (only) (Course Numbers 979/980)
3 Credits (2 Related, 1 Work)
9 college credits through Lakeland Community College
Prerequisite: This program is designed for students entering their senior year. Prerequisites include an interview by instructor and by program start date student must have completed coursework required for senior status at their home school.
Recommendations: Followed a college preparatory course of study, good attendance and discipline records.
Estimated Fee: $120
Recommended For: College Bound/Technical Education

Marketing Communications is a college-preparatory course intended for students desiring to study business, marketing or a related field in college, start a business after graduation, or work immediately. Students will explore business topics through class instruction marketing research engagement in small group debates, development of interpersonal communication and leadership skills, creative or effective persuasive presentations and discussion involving classroom to work world experiences. All students are employed in diverse fields of choice and are evaluated at their work sites.

Students participate in DECA, the marketing leadership association for students to develop marketing skills outside of the classroom and to collaborate and be involved with other students across the country. Some DECA activities include volunteering, fundraising and business competitions that offer advancement to the state, national and international level. Students also belong to Junior Achievement.

Up to 9 college credits are available through Tech Prep Articulation Agreement with Lakeland Community College.

Medical Technologies I

(Mayfield High School)
College Tech Prep
Grade 11 (Course Number 960/961/493)
3 credits (1 Lab, 1 Related, 1 Human Anatomy and Physiology)
Prerequisite: Interview by Instructor. By program start date student must have completed coursework required for junior status at their home school including seven (7) credits with a mandatory two (2) credits each earned in English and Mathematics.
Estimated Fee: $ 200
Recommended For: College Bound/Technical Education
Be sure to read all requirements of Medical Tech II before committing to this program.

This program prepares students with an interest in the medical professions to develop the attitudes, practices and technical skills to obtain employment in medical, dental and diagnostic treatment facilities and to continue their education in a post-secondary institution in the medical/dental or diagnostic sciences. The students will participate in instructional, laboratory and clinical experiences designed to prepare individuals in direct patient care, diagnostic, therapeutic and treatment options. The course is intended for those students who are serious about an educational future in the medical/dental sciences. It is a Tech Prep program that articulates with colleges allowing some students to receive college credit in high school. Students will receive 2 college credits for successful completion of the HLTH 1100 Introduction to Health Care Science through Lakeland Community College.

Medical Technologies II

(Mayfield High School)
College Tech Prep
Grade 12 (Course Numbers 962/963/168/491)
4 credits (1 Related, 1 Internship, 1 Bio/Chemistry, 1 English 4

Prerequisite: Pass Medical Technologies I. Proof of current vaccinations
Estimated Fee: $220
Recommended For: College Bound/Technical Education

The Medical Technologies II program is designed to give senior students an integrated approach to the study of the medical health care industry. Students will participate in a clinical experience that will include an in-depth look at local medical/dental facilities. Students must be able to provide their own transportation to the clinical lab experience. Related subjects include Human Growth and Development, AHA Healthcare Provider C certification, OSHA certification, Infection Control and Risk Management, Human Relations, disease pathology/treatment and Medical Terminology. The program includes one credit of Physics/Chemistry which is integrated with the Medical Technologies lab, and one credit for clinical lab experience. Medical Terminology, the study of medical terms used in health care setting, is articulated with Lakeland Community College to earn three college credits. Students will also earn two college credits for Electrocardiography. A total of eight college credits may be earned upon graduation from this two-year program

Performing Arts Academy I & II

(Chagrin Falls High School)
College Tech Prep
Grade 11 (Course Numbers 953/955)
Grade 12 (Course Numbers 919/983)
3 credits each year (2 Lab, 1 Related)
3 college credits through Cuyahoga Community College
Completion of the program satisfies the communication graduation requirement

Prerequisite: Audition consisting of two contrasting monologues or one monologue and one song, no more than 90 second each. Monologue texts and a list of recommended song selections will be posted on the Academy Web-site. Students must be prepared to sing a cappella. By program start date student must have completed coursework required for junior status at their home school including seven (7) credits with a mandatory two (2) credits each earned in English and Mathematics.
Recommendations: Good attendance and discipline record.
Estimated Fee: $200
Recommended For: College Bound/Acting, Singing, Performing, Designing and Technical Theatre Education

During the interview process a resume and a headshot or school photo, a letter of recommendation from a theatre, drama or music program student has attended and a character reference should be provided.

The Chagrin Falls Performing Arts Academy is a college preparatory program for high school juniors and seniors. Juniors are encouraged to attend in the morning but accommodations may be made for juniors to attend in the afternoon; seniors are required to be in the afternoon session. The Academy is an accredited, half-day high school program which takes place during school hours. The program will consist of acting, theatre, voice, voice for the stage and tech theatre training and performance education. This will include daily acting classes, plus classes in voice, movement, musical theatre, technical theatre, stage combat, makeup, history, vocal training, and audition labs. The acting class will consist of sessions of improvisation, scene study, Shakespeare, Styles physical technique, acting for the camera and two years studying Stanislavski technique. The voice class will include vocal exercises, dialects and monologues.

There will be fully mounted productions and student plays along with special workshops led by guest artist from the professional theatre. The Academy produces eight productions a year. Students need only participate in one show a year. Students may audition for as many as fit their schedule. Students auditioning must clear their schedule to accommodate rehearsals and productions. Students must provide their

own transportation to after school and evening events.

Studio Art & Design I & II

(Orange High School)
College Tech Prep
Grade 11 (Course Number 933)
Prerequisite: Studio art packet, portfolio, reference letter and interview.
3 credits (2 Lab, 1 Related)
Grade 12 (Course Number 934)
Prerequisite: Successful completion of Studio Art and Design 1
3 credits (2 Lab, 1 Related)
Estimated Fee: $175
College credits available
Recommended For: College Bound/Technical Education

Do you **engage, invent, create…because we do.**

The expectation in Studio Art & Design is to prepare self-motivated, creative students for careers in the visual arts by developing a comprehensive portfolio for college acceptance.

The goals of the studio are:

- To embrace creative problem solving and visual communications while developing individual expressions within content, image and message.
- To develop a personal philosophy of art based on aesthetic theories, personal development and cultural influences.
- To design authentic learning related to multiple careers in art.

The student will review techniques and creative processes from the historical art masters. They will become proficient in the fundamental components of design elements and principles and become active in using the computer as a resource to personal vision and self promotion through the use of mixed media. Students will accumulate studio skills from the visual treasures in antiquity coupled with conceptual understanding reflected in contemporary artist trends/styles. We review yearly college of art presentations, professional artists' demonstrations and the study of public art during annual field trips.

This program is geared toward the student with an interest in a career opportunity in Painting, Art Education, Fashion Design, Architecture, Interior Design, Display Design, Graphic Design, Advertising, Illustration, Animation, Photography, Fine Arts, Product Design and more.

The Studio Art & Design program has created a networking consortium of professional artists presently employed in multiple careers in art. This consortium was designed to be a professional contact and resource to help guide parents and inspire students in their college choices and career information from a professional contact within the networking group including former alumni from area high schools. Each student's portfolio work will be created and prepared for college acceptance along with expectations to compete for merit portfolio scholarships.

These alumni represent several universities and art institutes including:

Columbus College of Arts and Design
Cleveland Institute of Art
Rhode Island School of Design
Pratt Institute
Parsons School of Design
Maryland Institute College of Art
School of the Art Institute of Chicago
Syracuse University

ENVIRONMENTAL EDUCATION PROGRAMS

Cleveland Botanical Garden, Floriculture and Gardening Operations, Landscape and Turf Operations

This group of programs is designed to educate the student in the area of care, cultivation and utilization of plants from a commercial, consumer and academic perspective. Plants provide the basis for our ecosystems and our economies. The curriculum is designed to prepare students for a wide array of careers in horticulture by blending academics and the technical subject areas of turf & ornamentals, greenhouse production, floral design, and equipment operations. All programs are considered Tech Prep in which students have the opportunity to earn up to 6 Semester College Credits through an articulation agreement with Cuyahoga Community College. Students will be required to complete a Senior Capstone project. Students will have the opportunity to explore post secondary training in the area of agriculture by visiting Cuyahoga Community College, and the Agricultural Technical Institute in Wooster. Students enrolling in the program also become members of FFA, and have the opportunity to join the Ohio Nurserymen and Landscapers Association, and PLANET. If a student wants to cultivate the gardener side of their career then they can choose from any of the following areas:

Environmental Education Programs

Grades 10-12
EE 1 (Course Numbers 967/978)
EE 2 (Course Numbers 968/969)
College Tech Prep
3 credits each year (1-Related, 2-Lab or 1-Related, 1-Lab, 1-Virtual Learning)
6 College credits through Cuyahoga Community College
Estimated Fee: $150
Prerequisite: Interview by Instructor
Recommendations: Good attendance and discipline record
Recommended For: College Bound/Technical Education

Agriculture Career Exploration (A.C.E.)

(Environmental Education Center)
ACE1 Course Numbers 966/965
ACE2 Course Numbers 976/975
8 Credits each year dependent upon individual student performance. (2 Lab, 1 Related, 5 Virtual Learning.)
Prerequisite: Interview by Instructor and recommended by Counselor and/or Administrator.
Recommended For: Technical Education
Estimated Fee: $150

This program offers 10th-12th grade students an exploration of the various Agriculture occupations with emphasis on entry level job skills. This work-study program is designed for selected students to explore agriculture-related careers while getting firsthand experience in the world of work. Students successfully completing various job shadow sites throughout the school year will have the opportunity to gain paid employment. While learning job skills, students will also gain knowledge in the areas of: employability skills, positive work habits, communication and interpersonal skills, basic floral design, landscape techniques, plant propagation and care, and general horticulture skills. Students will have the opportunity to explore post secondary training in the area of agriculture by visiting Cuyahoga Community College,

and the Agricultural Technical Institute in Wooster. Students enrolling in the program become members of FFA, and have the opportunity to join the Ohio Nurserymen and Landscapers Association and PLANET.

Cleveland Botanical Garden

(Cleveland Botanical Garden)

Cleveland Botanical Garden Program is for students that desire a career in landscape maintenance and public gardening. The garden houses 10 landscaped acres of permanent, award-winning displays and themed gardens which the students use for their classroom. The students are engaged by hands-on horticultural experiences as they work alongside their teachers and the knowledgeable CBG staff members in areas of interest. This program is designed for those students who wish to develop their landscaping skills, work habits, and knowledge to ultimately become successful workers in the horticulture industry and productive members of society. Entry employment opportunities are available and continuation of higher education is encouraged after completion of the program.

Floriculture and Gardening Operations

(Gates Mills Environmental Education Center)

The Floriculture and Gardening Operations program is for students who wish to explore several areas in the green industry before entering post secondary training or the work force. The program offers the basics in landscape and golf course maintenance, gardening, greenhouse, floral, garden center and nursery operations. The program includes hands-on training by growing, maintaining, selling and designing with trees, shrubs, perennials, annuals, vegetables, houseplants and cut flowers. Students are encouraged to participate in a paid internship program to enhance the learning experience in specialized areas of horticulture. Opportunities are available for students to participate in community events, field trips, volunteer experiences, National Technical Honor Society, industry certifications, local and state competitions and FFA. Students will also have the opportunity to make connection with industry professionals.

Landscape and Turf Operations

(Gates Mills Environmental Education Center)

The Landscape and Turf Operations course is an intensive program designed for students who are serious about employment in the landscape industry and/or to prepare themselves for further education in a college, university, or trade school. The course provides students with instruction and hands-on work both on the horticulture campus and off, in local horticulture related businesses and residential properties. Topics include landscape equipment use and maintenance, construction and installation with stone, wood, and brick, landscape design and landscape maintenance. Employment opportunities are very high for those that are serious about their careers.

INTERVENTION PROGRAMS

Agriculture Career Exploration (A.C.E.)
Career Based Intervention @ Gates Mills
Career Based Intervention @Tri-C
Job Training

All students have the ability to learn, to establish a career plan and carry out their career path to gain success in their lives. The intervention programs are designed to assist students who possess barriers to career and academic success to establish a career path by using work based learning experiences and gaining competencies to achieve a successful path to career options. The intervention instruction is designed to help students recover credits, get back on track academically and establish career goals. Based on student's age, potential career desires and academic credits they will be referred to the appropriate intervention program by the student's guidance counselor and/or principal.

Agriculture Career Exploration (A.C.E.)
(Environmental Education Center)

Grades 10-12
ACE1 Course Numbers 966/965
ACE2 Course Numbers 976/975
7 Credits each year (2 Lab, 1 Related, 4 Virtual Learning)
1/4 credit for completion of summer program (optional)
Prerequisite: Interview by Instructor and recommended by Counselor and/or Administrator.
Recommended For: Technical Education
Estimated Fee: 1st year $145; 2+ years $110

This program offers 10th-12th grade students an exploration of the various Agriculture occupations with emphasis on entry level job skills. This work-study program is designed for selected students to explore agriculture-related careers while getting firsthand experience in the world of work. Students successfully completing various job shadow sites throughout the school year will have the opportunity to gain paid employment. While learning job skills, students will also gain knowledge in the areas of: employability skills, positive work habits, communication and interpersonal skills, basic floral design, landscape techniques, plant propagation and care, and general horticulture skills. Students will have the opportunity to explore post secondary training in the area of agriculture by visiting Cuyahoga Community College, and the Agricultural Technical Institute in Wooster. Students enrolling in the program become members of FFA, and have the opportunity to join the Ohio Nurserymen and Landscapers Association and PLANET.

Career Based Intervention
(Environmental Education Center)

Grades 9-10
Course Numbers 901/904
7 Credits each year possible depending on the performance of the individual student (2 Lab, 1 Related, up to 4 Virtual Learning)
Prerequisite: Interview by Instructor and recommended by Counselor and/or Administrator.
Recommended For: Technical Education
Estimated Fee: 1st year $145; 2+ years $110

Career -Based Intervention (CBI) is a Career Technical Education Program designed for students in grades 9-10 who have barriers to achieving academic and career success. The program is designed to help students recover credits and improve academics.

Career Based Intervention
(Cuyahoga Community College)

Grades 9 and 10
Course Numbers 902/903
7 credits each year (1 CBI Related, 2 Lab, 4 Virtual Learning dependent on individual student's performance.)
Prerequisite: Interview by Instructor, students must be at least 15 years of age before school year begins, pass at least 8th grade basic math, must attend class and work experience every day of school year, follow the guidelines of Mayfield City Schools and Cuyahoga Community College – parent and student will sign a contract.
Recommendation: Counselor and/or Administrator
Recommended For: Technical Education
Estimated Fee: $30.00

The Career Based Intervention (CBI) program offered at Cuyahoga Community College through Excel TECC, is designed to serve youths fifteen years of age and older. This program is aimed specifically at helping students become motivated toward education and exploring careers through work experience. The Career Based Intervention Program is designed to assist students who possess barriers to career and academic success. The program uses work-based learning experiences and competencies to achieve a successful path to career options. CBI is based on the key principles of higher student expectations, studying the common curriculum of the school, providing authentic learning opportunities, having supportive structures, and establishing a sense of belonging. In this program, the student receives unpaid work experience at Tri-C for 120 minutes per day. Each student also receives job related instruction in class. The ultimate objective of the CBI program is graduation from high school with marketable skills and a career path. Students will receive one credit for CBI related, two credits for work experience and up to 4 credits in Virtual Learning based on student initiative and performance. Credit recovery course is an option for students if they are progressing through virtual learning satisfactorily.

Career Based Intervention
(Cuyahoga Community College)

Grades 11 and 12
Course Numbers 912/913
8 credits each year (1-CBI Related, 2 Work (1 credit of work = 180 hours), 5 Virtual Learning. Students will have their school counselors forward their schedules to Mayfield Excel TECC office. Students are responsible to meet their home school graduation requirements.
Prerequisite: Interview by Instructor and recommended by Counselor and/or Administrator. Students must be 16 year old before the start of the school year, must attend class every day, and follow all the guidelines of the Mayfield City Schools while earning high school credit.
Recommendation: Counselor and/or Administrator
Recommended For: Technical Education
Estimated Fee $30.00

Career-Based Intervention (CBI) is a career technical education program designed for students in grades 11-12 who are identified as disadvantaged (either academically or economically or both) and who have barriers to achieving academic and career success. The program is aimed specifically at helping students become motivated toward education exploring work experience. The CBI program is designed to help students recover credits, improve academic competencies, graduate from high school, develop employability skills, implement a career plan and participate in a career pathway in preparing for careers.

CBI is based on the key principles of higher student expectations, studying the common curriculum of the school, providing authentic learning opportunities, having supportive structures and establishing a sense of belonging. In this program, the student can also work outside the school day and earn money as well as credit for graduation. Each student also receives job

related instruction in class. The ultimate objective of the CBI program is graduation from high school with marketable skills and a career path.

The main goal of CBI students in grades 11-12 is to be able to graduate and be able to learn employability skills to implement a career plan.

Job Training

(Off-Site)
Grades 10-12
Course Number 920
Up to 3 credits per year
Prerequisite: Interview by instructor; students must be at least 16 years of age; recommendation of IEP team, counselor, or VOSE.
Recommended For: Technical Education
Estimated fees: $30- $50

The Job Training program is an option for students who want an individualized program that enables them to gain relevant work experience and on-the-job training (based on individual interests) while completing their academic requirements for graduation. Working with the student, a progression toward competitive employment is determined. The majority of the training provided is through community-based placements with on-the-job mentoring and employer provided supports. Paid or unpaid placements are determined individually based on a student's prior experiences and job readiness.

Job placements are developed with considerations for proximity to the student's residence, and transportation-related requirements. Students meet for small group instruction weekly at their home schools. Job Training should be on the student's schedule for several instructional periods at the end of the academic day. To earn the maximum of 3 credits per year, a student must be engaged fifteen hours per week in a combination of paid or unpaid work experience, job search, and group instruction.

The flexibility of the Job Training sessions enables students to complete their academic requirements while earning elective credit from the job training experience. The outcomes of the program are: job search skills, employability skills, and paid work experience.

Parental involvement is essential for accomplishing the goals of this program and facilitating the student's participation in the job placement. It is the responsibility of the student and family to arrange transportation to paid or unpaid work sites. However, training and supports in using public transportation are provided by the Job Training staff as needed.

A student typically enrolls in the program for two years; however a one year enrollment option is offered for seniors.

Technology

Technology Courses

9th Grade

Computer Programming with Visual BASIC*

Computer Programming with Java*

Digital Media Production 1*

Digital Media Production 2*

Information Technology 1*

Information Technology 2*

Technology 1*

10th , 11th, and 12th Grades

Advanced Digital Media Production

Computer Programming with Visual BASIC*

Computer Programming with Java*

Digital Art and Design 1*

Digital Art and Design 2*

Digital Media Production 1*

Digital Media Production 2*

Drafting 1

Drafting 2

Information Technology 1*

Information Technology 2*

News Writing for Digital Media*

Photography 1*

Technology 1*

Web Site Design for Personal and Business Use*

*semester course

Technology Courses

Courses to meet the technology graduation requirement are offered by a variety of different departments. Their course descriptions are duplicates of the descriptions published earlier in this book. They are repeated here for your convenience.

Advanced Digital Media Production

Grades 10-12
Course Number 620
Full Year Course - 1 credit
Prerequisite: Digital Media Production 2
Estimated Fee: $26.00
Recommended For: College Bound/Technical Education
Career: A,B,E,F,H,P

The students who sign up for this year-long class must have successfully completed Digital Media Production 1 and 2. Students will spend the year creating media that can be posted to the Mayfield Web site, seen on Channel 22, or sent out for the cyber world to see. This course will allow students to use the fundamental skills they have developed and dazzle people with their creative style.

Computer Programming with Visual BASIC

Course Number 635
Semester Course - 0.5 credit
Prerequisite: Mathematics 1
Estimated Fee: $10.00
Recommended For: College Bound/Technical Education
Career: A,B,E,F,H,P

This course provides the student with an opportunity to utilize the micro-computer in the solution of both mathematical and non-mathematical problems. The student is introduced to the computer language called Visual BASIC and is taught how to program in this object-oriented language in order to communicate with a micro-computer. The prerequisite, Mathematics 1, may be taken concurrently.

Computer Programming with Java

Grades 9-12
Course 636
Semester Course - 0.5 credit
Estimated Fee: $10.00
Prerequisite: Computer Programming with Visual BASIC
Recommended For: College Bound/Technical Education
Career: A,B,E,F,H,P

In Computer Programming with Java students learn the Java programming language. This is a hands-on course in which students write computer programs in one of the most popular programming languages in the world.

Digital Art and Design 1

Grades 10-12
Course Number 715
Semester Course - 0.5 credit
Prerequisite: Art Foundations
Estimated Fee: $30.00
Recommended For: College Bound/Technical Education
Career: A,B,E

The Digital Art and Design 1 course introduces students to illustration techniques, associated terms, and vocabulary. Students will create illustrations and designs using the elements and principles of art. Students will experience industry standard software (Adobe Illustrator and Photoshop) and peripheral hardware to produce both fine and applied art products. *Students may complete their technology credit by taking Digital Art and Design 1.*

Digital Art and Design 2

Grades 10-12
Course Number 716
Semester Course - 0.5 credit
Prerequisite: Digital Art and Design 1
Estimated Fee: $30.00
Recommended For: College Bound/Technical Education
Career: A,B,E

Digital Art and Design 2 is for students who wish to further develop their talent, interest, knowledge and skills in the world of photography, graphics and technology.

Interaction with various software, emphasis on developing the photographic eye, and expanding individual portfolios with high quality graphics are some of the curriculum objectives. Students will be required to maintain a journal binder showing samples of all the lessons for this course.

Digital Media Production 1

Grades 9-12
Course Number 618
Semester Course - 0.5 credit
Prerequisite: None
Estimated Fee: $21.00
Recommended For: College Bound/Technical Education
Career: A,B,E,F,H,P

YouTube was one of the most visited Web sites in 2010, but Vimeo made *Time Magazine's* list of top ten sites. Creating video is an essential 21st century skill, and Digital Media Production 1 is the class where students will learn what it takes to make creative and professional-looking videos. Students will use video cameras to learn basic camera shots, audio and green screen techniques.

Digital Media Production 2

Grades 9-12
Course Number 619
Semester Course - 0.5 credit
Prerequisite: Digital Media Production 1
Estimated Fee: $21.00
Recommended For: College Bound/Technical Education
Career: A,B,E,F,H,P

The students who sign up for this course must have successfully completed Digital Media Production 1. The Digital Media Production 1 course gave students just a small glimpse into the world of video making. In this course, students will have the opportunity to use their media skills and creativity to create professional quality media.

Drafting 1

Grades 10-12
Course Number 685
Full Year Course - 1 credit
Prerequisite: None
Estimated Fee: $16.75
Recommended For: College Bound/Technical Education
Career: A,B,E,F

This is an introductory course in drafting principles and practices. It is designed to provide an overview of engineering and architectural drawing fields. Furthermore, it will emphasize skills in applied geometry, use of precision instruments and drafting standards and techniques. A variety of drawings will be made during the lab sessions. Students will be introduced to making drawings on the computer with the AutoCAD program. (1/4 lecture – 3/4 lab.)

Drafting 2

Grades 11-12
Course Number 686
Full Year Course - 1 credit
Prerequisite: Drafting 1
Estimated Fee: $15.25
Recommended For: College Bound/Technical Education
Career: A,B,E,F

This course should be of particular interest to students planning a career in areas related to engineering, architecture, design, art advertising or the industrial and building trades. Refinement and development of drafting skills as related to making various types of Technical Education drawings are continued. Emphasis is placed on Technical Education illustrations, design methods, architectural drawings, and blueprint interpretation. This course will present a more extensive use of our AutoCAD software (1/4 lecture – 3/4 lab.)

Information Technology 1

Grades 9-12
Course Number 632
Semester Course - 0.5 credit
Prerequisite: None
Estimated Fee: $21.00
Recommended For: College Bound/Technical Education
Career: CORE

Information Technology 1 students will be introduced to Microsoft Office 2007. This course is designed to teach students how to use Word, Excel, Access, PowerPoint, and Publisher. New technologies will be introduced including podcasting, sound, and video editing. Students who have taken Productivity Tools are not eligible for this course, but are eligible for Information Technology 2.

Information Technology 2

Grades 9-12
Course Number 633
Semester Course - 0.5 credit
Prerequisite: Productivity Tools or Information Technology
Estimated Fee: $21.00
Recommended For: College Bound/Technical Education
Career: A,B,E,F,P

Information Technology 2 students will explore the advanced features of multiple software packages including Microsoft Office 2007 and other Window applications. Graphic design, web publishing, sound, video, and podcasting are included. Students will integrate all the latest technologies in a project-based environment.

News Writing for Digital Media

Grades 10-12
Course Number 183
Semester Course - 0.5 credit
Prerequisite: None
Estimated Fee: None
Recommended For: College Bound/Technical Education
Career: CORE

This course simulates a professional news writing experience. Students will learn about writing for a specific purpose and be involved in real-world production situations, requiring them to display leadership, time management, and collaboration. The course will explore the writing process and the impact of text features on written communication. Students will learn how to produce an electronic publication that includes pictures, links, articles, and event coverage related to current national and local news, school activities, media reviews, and current topics. Enrollment in this course will require students to work on teams and to meet production deadlines. Students must commit time outside of the school day to complete projects and assignments. This course satisfies the communication (formerly speech) graduation requirement and is open to students in grades 10 through 12.

Photography 1: A Digital Approach

Grades 10-12
Course Number 696
Semester Course - 0.5 credit
Prerequisite: None
Estimated Fee: $34.70
Recommended For: College Bound/Technical Education
Career: A,B,E,F,H,P

Starting with the history of photography, students will read and learn about the invention of the camera. Students will use a digital camera and be introduced to Photoshop tools which will be used to adjust, edit and enhance photos based on the compositional elements of photography (i.e., rule of thirds, short depth of field and panning). Potential projects included in the course are Photo series, Portrait Study and a unit involving panoramic techniques. Students will research a modern photographer and present findings to the class.

Technology 1

Grades 9-12
Course Number 678
Semester Course - 0.5 credit
Prerequisite: None
Estimated Fee: $27.50
Recommended For: College Bound/Technical Education
Career: A,B,E,F,H,P

Technology 1 is a course which allows students to sample a variety of high tech areas for a period of two weeks using a multimedia-driven program. Students will work in pairs in the following modules: Animation, Flight Simulation, Computer-Aided Machining (Lathe), Website Development, Electricity/Electronics, Fluid power, Computer-Aided Machining (Mill), AutoCad, Stress Analysis, Space and Rocketry, Robotics, House Wiring and Video presentation. This class is an excellent way for students to determine both their interests and strengths in different technical fields for making a wise career choice. (Satisfies Technology Requirements).

Web Site Design for Personal and Business Use

Grades 10-12
Course Number 638
Semester Course - 0.5 credit
Prerequisite: Productivity Tools or Information Technologies 1
Estimated Fee: $10.00
Recommended For: College Bound
Career: A,B,E,F,P

This is a course designed to teach students how to write, design, maintain, and update a Web page. Students will create Web pages using Word, Publisher, Dream Weaver, and HTML. The use of scanners, video cameras, and digital cameras will be utilized in this Web page writing class.

WORLD LANGUAGE

Foreign Language study at Mayfield High School

Knowing more than one language is a great asset in our "global village." French, German, Italian, and Spanish courses are designed to meet the needs of college preparatory students and are offered at levels one through five. Students who have strong composition and spelling skills usually do well in a foreign language. Although a foreign language is not required for graduation, many colleges recommend that students take a minimum of two or three years of the same foreign language for college admissions.

World Language Courses

French Courses	German Courses	Italian Courses	Spanish Courses
French 1	German 3	Italian 1	Spanish 1
French 2	German 4 Honors With AP German Language &Culture	Italian 2	Spanish 2
French 3		Italian 3	Spanish 3
French 4 Honors		Italian 4 Honors	Spanish 4 Honors
AP French Language & Culture		AP Italian Language & Culture	AP Spanish Language & Culture

World Language Courses

French 1

Grades 9-12
Course Number 513
Full Year Course - 1 credit
Prerequisite: None
Estimated Fee: $26.00
Recommended For: College Bound
Career: A,B,E,F,H,P

French 1 begins the study to understand and speak French as well as to read and write the target language. Basic grammatical structures are taught. Activities include the drilling of French sound, the learning of vocabulary, verb tenses, and grammatical structures leading to free conversation, oral, and written drills, and an introduction to French civilization and culture. Successful study of foreign languages can lead to varied career opportunities, especially in

business fields. It is suggested that a student taking foreign language should be doing satisfactory work in English classes.

French 2

Grades 9-12
Course Number 514
Full Year Course - 1 credit
Prerequisite: French 1 or 8 French
Estimated Fee: $17.00
Recommended For: College Bound
Career: A,B,E,F,H,P

French 2 builds on and continues the development of the four basic skills introduced in French 1: listening, speaking, reading, and writing. The student learns new vocabulary words, new tenses, and other basic grammatical structures. This knowledge is applied in written and oral work such as essays, skits, short speeches, and daily classroom conversation. Each unit discusses a phase of French culture.

French 3

Grades 10-12
Course Number 515
Full Year Course - 1 credit
Prerequisite: French 2
Estimated Fee: $17.00
Recommended For: College Bound
Career: A,B,E,F,H,P

French 3 continues to emphasize all four phases of language study. By the end of the year, the students will have completed the study of most of the major points of grammar of the language. There is still great emphasis on building vocabulary. More emphasis is placed on writing as well as on speaking (planned and extemporaneous) on a wide number of subjects pertaining to the lives of the students. The class reads its first complete book.

French 4 Honors

Grades 11-12
Course Number 519
Full Year Course - 1 credit
Prerequisite: French 3 and Recommendation
Estimated Fee: $55.00
Recommended For: College Bound
Career: A,B,E,F,H,P

This course is designed to give the students an introduction to French history and literature, to review grammar, to enable them to read with understanding, and to express themselves. In their text, the students study French history. They then study literature in relation to the period of history in which the works were written. There is a successive review of structure, especially of verbs. The students are encouraged to discuss the material studied as well as any other matters which interest them in order to facilitate their use of the language.

AP French Language and Culture

Grade 12
Course Number 520
Full Year Course - 1 credit
Prerequisite: French 4 Honors and Recommendation
Estimated Fee: $64.00 and A.P. Test Registration
Recommended For: College Bound
Career: A,B,E,F,H,P

With recommendations from and the approval of the College Board, the Advanced Placement French Language and Culture course work models a college world language class.
This course is designed to prepare students for the Advanced Placement Language Test. There is a review of grammar using the last half of the grammar text started in French 4 Honors. Short stories are read. Weekly extemporaneous oral presentations and several resumes of articles from current magazines are required during each grading

period. The students give a longer oral report to the class, read French language books for book reports and do structured as well as creative writing. Listening comprehension is developed through constant work with audio recordings made by French speakers. . Students enrolled in this course are required to take the A.P. exam in May

German 3

Grades 10-12
Course Number 545
Full Year Course - 1 credit
Prerequisite: German 2
Estimated Fee: $22.00
Recommended For: College Bound
Career: A,B,E,F,H,P

German 3 begins with an overall review of grammar studied earlier. The goal is to achieve a definitive understanding of the language. The emphasis is on speaking, which is practiced in prepared or impromptu speeches. Speaking is practiced daily. The students have frequent reading assignments either in the text or their readers. Writing assignments are given weekly during or outside of class. Listening skills are emphasized daily through teacher-directed discussions or audio recordings.

German 4 Honors

Grades 11-12
Course Number 549
Full Year Course - 1 credit
Prerequisite: German 3 and Recommendation
Estimated Fee: $26.00
Recommended For: College Bound
Career: A,B,E,F,H,P

This course provides intensive study of the German language. Students work on increasing vocabulary and improving writing, speaking and listening skills. Authentic sources are used for reading and listening activities. Work is done in the German language. The cultures of the German-speaking countries and the United States are compared and contrasted.

AP German Language and Culture

Grade 12
Course Number 550
Full Year Course - 1 credit
Prerequisite: German 4 Honors and Recommendation
Estimate Fee: $9.00 and A.P. Test Registration
Recommended For: College Bound
Career: A,B,E,F,H,P

With recommendations from and the approval of the College Board, the Advanced Placement German Language an Culture course work models a college world language class.
This course provides intensive study in preparation for the Advanced Placement Test. The class is focused on the six AP themes: Global Challenges, Beauty and Aesthetics, Science and Technology, Contemporary Life, Personal and Public Identities, and Families and Communities. Students work on increasing vocabulary, and improving speaking, listening and writing skills using authentic resources. Students enrolled in this course are required to take the A.P. exam in May

Italian 1

Grades 9-12
Course Number 533
Full Year Course - 1 credit
Prerequisite: None
Estimated Fee: 36.00
Recommended For: College Bound
Career: A,B,E,F,H,P
Italian 1 is an introductory course designed to provide students with a basis for learning the spoken and written language. Practice in listening, speaking, reading, and writing are given and students are provided opportunities to express themselves in everyday situations. Students develop speaking skills by constant repetition of core materials. Each lesson is built around a cultural theme and all oral and written exercises center upon this theme. Reading

skills are developed from short dialogues and modifications of the core material. Numerous situational dialogues are written to increase writing skills and provide for originality. Basic grammatical structures are taught and reinforced with exercises. Successful study of foreign language can lead to varied career opportunities, especially in business fields. It is suggested that students taking foreign language should be doing satisfactory work in English classes.

Italian 2

Grades 9-12
Course Number 534
Full Year Course - 1 credit
Prerequisite: Italian 1 or 8 Italian
Estimated Fee: 36.00
Recommended For: College Bound
Career: A,B,E,F,H,P

Italian 2 continues to develop the listening, speaking, reading, and writing skills present in Italian 1. Through oral exercises students are provided opportunities for self-expression in concrete situations. Students are encouraged to use the language in a new context with each new lesson. They are able to handle an active vocabulary of approximately 2,000 words, as well as to recognize many more in speech or writing. The students are introduced to contemporary non-touristic life and culture through themes, readings, and cultural notes.

Italian 3

Grades 10-12
Course Number 535
Full Year Course - 1 credit
Prerequisite: Italian 2
Estimated Fee: $36.00
Recommended For: College Bound
Career: A,B,E,F,H,P

Italian 3 offers the students an opportunity to form more complex expressions by the further study of grammar. It broadens the students' understanding of the language by the reading of true-to-life articles. Students learn about the culture and political geography of Italy and are presented with much new vocabulary. Most discussions are done in the language to increase language usage. The students write original compositions.

Italian 4 Honors

Grades 11-12
Course Number 539
Full Year Course - 1 credit
Prerequisite: Italian 3 and Recommendation
Estimated Fee: $41.00 (No fee if book was purchased during Italian 3)
Recommended For: College Bound
Career: A,B,E,F,H,P

Italian 4 broadens the students' understanding of the Italian language and culture by presenting graded reading materials. Readings acquaint students with aspects of Italian life and culture. In order to understand modern phrases and idioms, the works of current Italian authors are studied. All discussions are in the language, as is all written work.

AP Italian Language and Culture

Grade 12
Course Number 540
Full Year Course - 1 credit
Prerequisite: Italian 4 Honors and Recommendation
Estimated Fee: $50.00 and A.P. Test Registration
Recommended For: College Bound
Career: A,B,E,F,H,P

This course is designed to provide intensive study in preparation for college placement tests. During the year, students will complete units of history, literature and review of major points of the grammar learned in the preceding courses. Students enrolled in this course are required to take the A.P. exam in May

Spanish 1

Grades 9-12
Course Number 523
Full Year Course - 1 credit
Prerequisite: None
Estimated Fee: $17.00
Recommended For: College Bound
Career: A,B,E,F,H,P

Spanish 1 is a study of the basic structures of Spanish which contribute to the development of listening, speaking, reading, and writing abilities. Basic material is presented and designed to develop the student's ability to understand the spoken word. Speaking skills are developed by imitating the teacher and through patterned and free response drills in the text. Reading skills are developed through dialogues and narratives. Specific reading lessons concentrate on grammar points and introduce new vocabulary. Successful study of foreign language can lead to varied career opportunities, especially in business fields. It is suggested that students taking foreign language should be doing satisfactorily in English classes.

Spanish 2

Grades 9-12
Course Number 524
Full Year Course - 1 credit
Prerequisite: Spanish 1 or 8 Spanish
Estimated Fee: $17.00
Recommended For: College Bound
Career: A,B,E,F,H,P

In the second year, emphasis is placed on increasing competence in the four basic language skills: listening, speaking, reading, and writing. Each unit teaches vocabulary, grammar, and cultural material on the Spanish-speaking countries. Second-year students should have successfully fulfilled first-year requirements.

Spanish 3

Grades 10-12
Course Number 525
Full Year Course - 1 credit
Prerequisite: Spanish 2
Estimated Fee: $59.00
Recommended For: College Bound
Career: A,B,E,F,H,P

Spanish 3 is designed to review and expand grammatical elements and to develop conversation and self-expression through written and oral exercises. Students continue to study culture and civilization with special emphasis on the history and geography of Spain. Additional opportunities for reading comprehension, self-expression, and cultural appreciation are provided through readings, discussion, and oral and written assignments.

Spanish 4 Honors

Grades 11-12
Course Number 529
Full Year Course - 1 credit
Prerequisite: Spanish 3 and Recommendation
Estimated Fee: $29.00 (No fee if book was purchased during Spanish 3)
Recommended For: College Bound
Career: A,B,E,F,H,P

At this level, students have already learned the basics of Spanish grammar. Therefore, it is necessary only to review major problematic areas. The four skills – reading, writing, speaking, and listening – are now practiced through extended literary readings, discussions, essays, oral presentations, and listening activity exercises. Conversation and composition are emphasized. All classroom discussion is in the target language.

AP Spanish Language and Culture

Grade 12
Course Number 530
Full Year Course - 1 credit
Prerequisite: Spanish 4 Honors and Recommendation
Estimated Fee: $55.00 and A.P. Test Registration
Recommended For: College Bound
Career: A,B,E,F,H,P

AP Spanish Language and Culture provides intensive study in preparation for the Advanced Placement Examination. The class is focused on grammar, fluency, through speaking, listening, reading and writing. Cultural themes are studied and discussed throughout the course.
Students enrolled in this course are required to take the A.P. exam in May

Course Planner

Ninth Grade

Department	Semester 1	Semester 2	Credit
English	9 Intro. to Lit. & Comp.	9 Intro. to Lit. & Comp.	1.0
Social Studies	U.S. History	U.S. History	1.0
Mathematics	Mathematics	Mathematics	1.0
Science	9 Physical Science	9 Physical Science	1.0
For. Lang. or Elective			__.__
Fine Arts / Elective			__.__
Phys Ed./Elective	Physical Education(0.25)		__.__
Lunch/Study Hall	Lunch/Wildcat Focus	Lunch/Wildcat Focus	0.0
Total Credits			**__.__**

Tenth Grade

Department	Semester 1	Semester 2	Credit
English	10 World Lit. & Comp.	10 World Lit. & Comp.	1.0
Social Studies	World History	World. History	1.0
Mathematics	Mathematics	Mathematics	1.0
Science	10 Biology	10 Biology	1.0
For. Lang. or Elective			__.__
Communications / Elective	Communications (0.50)		__.__
Phys Ed./Health	Physical Education	Health	0.75
Lunch/Study Hall	Lunch/Study Hall	Lunch/Study Hall	0.0
Total Credits			**__.__**

Eleventh Grade

Department	Semester 1	Semester 2	Credit
English	11 American Lit. & Comp.	11 Intro. to Lit. & Comp.	1.0
Social Studies Elective			__.__
Mathematics	Mathematics	Mathematics	1.0
Science (Chem. or Sci. Elect)			__.__
For. Lang. or Elective			__.__
Elective			__.__
Elective			__.__
Lunch/Study Hall	Lunch/Study Hall	Lunch/Study Hall	0.0
Total Credits			**__.__**

Twelfth Grade

Department	Semester 1	Semester 2	Credit
English	12 British Lit. & Comp.	12 British Lit. & Comp.	1.0
Social Studies	Government	Government	1.0
Mathematics	Mathematics	Mathematics	1.0
Science Elective			__.__
For. Lang. or Elective			__.__
Elective			__.__
Elective			__.__
Lunch	Lunch	Lunch	0.0
Total Credits			**__.__**