

FAIRVIEW HIGH SCHOOL
PROGRAM OF STUDIES
2018/2019



Dear Parents and Students:

This Program of Studies for the students of Fairview High School exists to prepare students for life-long learning. In order to be college and career ready, our society demands that students possess the fundamental abilities to read, write, compute and process information. The ability to think critically and seek solutions through a variety of methods of problem-solving can only be attained through a rigorous high school program. This booklet contains the course offerings of Fairview High School for the 2018/2019 school year. Specific information regarding course descriptions, credit and graduation requirements and sample programs can be found in this booklet. These sample “Programs of Studies” are provided to help students in developing a four year program.

The faculty and administration of Fairview High School strongly recommend a program of development that includes additional credits beyond the minimum required for graduation. In addition, it is imperative that college bound students challenge themselves with four years of the core classes (English, math, science and social studies) in preparation for post-secondary education.

Our school counselors are available to meet with students and parents to help in preparing the appropriate academic program and in selecting courses. Please call the Counseling Office at 440.356.3500, ext. 4147, for an appointment.

The entire Fairview High School staff stands ready to assist you with decisions regarding your program of development. Please do not hesitate to ask for help and advice. We hope that you will take advantage of the many opportunities available to gain an excellent education in an environment designed to help you succeed.

Sincerely,

Chris Vicha
Principal

GENERAL INFORMATION FOR GRADES 9 THROUGH 12 ... The curriculum program at Fairview High School is based on a nine period schedule with a half hour for lunch . It is strongly recommended that students carry a full schedule. In some cases, it is advantageous for students to have one (1) study hall period for study and/or tutoring services.

PROMOTION/FAILURE ... Our program of development is based on four (4) years of study and hard work. Students who fail courses and fall behind may seriously jeopardize completing their academic program in four (4) years. Failure of required courses necessitates make-up through rescheduling, online courses, night school or summer school at **student's/parent's expense**. Some courses are not available in night or summer school. Students will be promoted to the next grade level at the end of each year.

STUDENT COURSE LOAD ... A normal, yearly load for a student is considered to be five (5) to seven (7) subjects plus physical education (with an average minimum credit value of 5.5) to graduate on time. Students may not take two (2) years of a **sequential** course in the same year. No student may carry less than five (5) credits in a school year. Students must also carry a minimum of two and one half (2.5) credits per semester.

GRADUATION REQUIREMENTS ... **MINIMUM** Requirements for Graduation from Fairview High School are:

1. **ATTENDANCE** ... A student must have eight (8) semesters of secondary school attendance following completion of the eighth grade.
2. **CREDIT REQUIREMENTS** ... For graduation, a student must earn a **MINIMUM** of twenty-one (21) credits. This is a minimum. Students generally accumulate, and are encouraged, to earn a number of credits beyond twenty-one (21) credits.

<u>DEPARTMENT</u>	<u>CREDITS</u>
English	4.00 credits
Mathematics	4.00 credits (with a (min. of 1 cr. in Alg. 2)
Science	3.00 credits Physical Science (1.0) Biological/Life Science (1.0)
Social Studies	3.00 credits World History (1.0) U.S. History (1.0) Gov't (1.0)
Physical Education	.50
Health Education	.50
Fine Arts	1.00
Required Total	16.00 credits
Elective Total	<u>5.00 credits</u>
TOTAL	21.00 CREDITS

3. OHIO STATE TESTS/END OF COURSE EXAMS--Students are required to take 7 End of Course exams throughout high school including: Algebra, Geometry, English/Language Arts 1, English/Language Arts 2, Biology, US History, and Government. Students **MUST** score at least 18 points on all of the tests and must also score a minimum of 4 points among the two math tests, 4 points among the two English tests and six points among the science and social studies tests. An alternative to scoring 18 points on the End of Course exams would be for students to take the ACT and/or SAT and receive a college-ready score.

HONORS DIPLOMA ... The State of Ohio offers an Honors Diploma. Students are required to meet seven (7) out of eight (8) of the following criteria for the College Preparatory Curriculum or seven (7) out of eight (8) of the following criteria for the Career-Technical Curriculum.

COLLEGE PREPARATORY CURRICULUM:

- 1) earn four (4) units of English
- 2) earn four (4) units of math including Algebra I, Geometry, Algebra II or equivalent and another higher level course or a four-year sequence of courses that contain equivalent content
- 3) earn four (4) of science including physics and chemistry
- 4) earn four (4) units of social studies
- 5) earn three (3) units of a world language including at least two (2) units in each language studies
- 6) earn one (1) unit of fine arts
- 7) earn 3.5 on a 4.0 scale
- 8) earn 27 ACT/1210 SAT

CAREER-TECHNICAL CURRICULUM

- 1) earn four (4) units of English
- 2) earn four (4) units of math including Algebra 1, Geometry, Algebra 2 or equivalent and another higher level course or a four-year sequence of courses that contain equivalent content
- 3) earn four (4) units of science including physics and chemistry
- 4) earn four (4) units of social studies
- 5) earn four (4) units of Career-Technical minimum Program must lead to an industry recognized credential apprenticeship or be part of an articulated career pathway which can lead to post-secondary credit.
- 6) earn a 3.5 on a 4.0 scale
- 7) earn a 27 ACT/1210 Sat
- 8) achieve proficiency benchmark established for appropriate Ohio Career-Technical Competency Assessment or equivalent

ADVANCED CREDIT FOR STUDENTS BELOW 9th GRADE ... Students below the ninth grade who are approved to take advanced work in the high school will receive credit on their transcripts for the courses taken and passed. Courses taken and completed before the ninth grade will be calculated in the student's grade point average, in calculating class rankings and used in meeting Honors Diploma requirements.

TRANSFER STUDENTS ... The placement and classification of a new student depends upon the evaluation of his/her academic record from his/her former school. The record will be evaluated on the basis of the Ohio High School Standards.

CLASS RANK ... A student is ranked in his/her class on a numerical scale according to the total number of quality points earned based upon semester grades. The following point values are assigned to letter grades:

A = 4.00	B- = 2.75	D+ = 1.25
A- = 3.75	C+ = 2.25	D = 1.00
B+ = 3.25	C = 2.00	D- = .75
B = 3.00	C- = 1.75	F = .00

WEIGHTED GRADES ... All Advanced Placement courses are weighted. They receive one (1) additional quality point. Those courses are AP Language & Composition, AP Literature & Composition, AP Biology, AP Physics, AP U.S. History, AP Government, AP French, AP Spanish, AP Computer Software/Engineering, AP Seminar, AP Research, AP Calculus, and AP Probability and Statistics. Advanced courses receive .5 quality points and are as follows: Advanced English 9, Advanced English 10, Advanced U.S. History, Advanced French IV, Advanced Spanish IV, Advanced Geometry, Advanced Algebra, Advanced Alg. 2/Trig., Advanced Pre-Calc, Advanced Biology, and Advanced Chemistry. College Credit Plus courses are also weighted when the course is determined to be the equivalent of a weighted high school Advanced Placement or Advanced course. **A grade of "D+" or below in any A.P. or Honors course will not be weighted.**

SCHEDULE CHANGES/DROP POLICY ... Choosing courses that fit your program of development is an extremely important process. Students and parents must work together in selecting those courses that help meet graduation requirements and the student's post-secondary plans. There will be no academic changes to core classes after June 1st. The Add/Drop period for electives occurs during the first week of each semester. All course changes require Administrative approval.

No changes will be made to accommodate class periods, instructors, or lunch periods.

EARLY GRADUATION POLICY ...See Student Handbook for details of the policy of the Board of Education.

COURSE CANCELLATION ... Any course may be canceled because of insufficient enrollment or limited staffing. In such cases, students who signed up for a canceled course will be notified and alternative choices will be made.

AUDITING OF CLASSES ... Auditing a class involves, for the student and the teacher, all of the responsibilities of conventional enrollment. Specifically, this requires class attendance, responsibility for all assignments, writing all examinations and class participation. Permission for an audit must be approved by the principal. No credit may be earned. Dropping an audited course after the second full week of the semester will result in an "F".

FEES ... All fees are subject to change as directed and approved by the Board of Education. Courses with consumable items will incur a fee.

TRANSCRIPTS ... Transcripts are available upon request in the Counseling Center. Transcripts are mailed from the center to the schools you designate.

ATHLETIC ELIGIBILITY ... An athlete must be passing five (5) units of credit towards graduation each nine (9) weeks and have a GPA of at least 2.0 that grading period to be eligible for the next nine week grading period. This is noncumulative and covers the entire grading period.

CREDIT FLEXIBILITY ... Credit Flexibility is any alternative coursework, assessment or performance that demonstrates proficiency so that graduation credit can be awarded with approval of the school district. Approved credit awarded through this policy will be posted on the student’s transcript and counted as required graduation credit in the related subject area or as an elective. For more information, visit the credit flexibility information page on our district, building and/or Ohio Dept. of Education web sites.

ADVANCED PLACEMENT COURSES ... These courses are designed according to the curriculum of The College Board. They are extremely challenging and students should expect to encounter heavy homework assignments, extra writing, and intensified study. These college level courses will be a challenge to the student. Only those who are willing to work hard and make a strong commitment to studying should apply. **STUDENTS IN ADVANCED PLACEMENT CLASSES ARE REQUIRED TO TAKE THE COLLEGE BOARD A.P. - EXAM FOR WHICH A FEE IS CHARGED. STUDENTS WILL NOT BE ABLE TO DROP AP COURSES AFTER JUNE 1ST.**

COLLEGE CREDIT PLUS ... Students may attend college classes for high school credit and college credit. Courses must apply towards a degree or certification program and no remedial courses will be allowed as part of this program. Course grades will be computed in the G.P.A. at the end of each semester. Students must talk to their school counselor and sign an *Intent to Participate* form by March 30th each year. Examples of pathways from Cuyahoga Community College are as follows:

**ASSOCIATE OF ARTS
15/30 HOUR BLOCKS**

Course Number	Course Name	Semester Hours	TAG Course
ENG 1010	College Comp I	3	Yes
HIST 1010	History of Civilization I	3	Yes
MATH 1250	Contemporary Math	4	No
PHIL 1010	Intro to Philosophy	3	Yes
PSYC 1010	General Psychology	3	Yes
	Total	16	
ENG 1020	College Comp II	3	Yes

HIST 1020	History of Civilization II	3	Yes
SPCH 1010	Speech Communication	3	Yes
SOC 1010	Intro to Sociology	3	Yes
Laboratory Science		4	Depends on Course
	Total	16	

**ASSOCIATE OF ARTS BUSINESS FOCUS
15/30 HOUR BLOCKS**

Course Number	Course Name	Semester Hours	TAG Course
ENG 1010	College Comp I	3	Yes
ECON 2610	Macroeconomics	3	Yes
MATH 1470	Math for Business I	4	No
PSYC 1010	General Psychology	3	Yes
BADM 2010	Business Communications	3	Yes
	Total	16	
ENG 1020	College Comp II	3	Yes
ECON 2620	Microeconomics	3	Yes
MATH 1480	Math for Business II	4	No
PHIL 2020	Ethics	3	Yes
SPCH 1010	Speech Communication	3	Yes
	Total	16	

PHYSICAL EDUCATION CREDIT ... In accordance with Board Policy 6.16, students who participate in interscholastic athletics, marching band, cheerleading, drill team or synchronettes for at least two (2) full seasons are not required to complete the physical education one-half unit to graduate, although the student must complete one-half (1/2) unit in another course of study.

**SAMPLE PROGRAM OF STUDIES
College Core Curriculum**

The College Core Curriculum* stresses those subjects recommended below.

English	4.00 credits
Social Studies	4.00 credits
Mathematics	4.00 credits
Foreign Language	2.00 credits (many colleges recommend 3)
Science	4.00 credits (many colleges recommend 3 lab courses)
Other Electives (1 credit of Fine Arts)	2.00 credits
Health & Phys. Ed.	<u>1.00 credits</u>
TOTAL	21.00 credits

Career-Technical Education

Polaris Career Center offers two (2) pathways for completion of a career-technical program. One is the traditional, two year program and the other is a tech-prep curriculum that prepares students for high-skill, technical occupations. Students who select a tech-prep program must complete Algebra I and Algebra II by graduation. Polaris Career Center is an excellent option in this area (see end of booklet).

English	4.00 credits
Social Studies	3.00 credits
Mathematics	4.00 credits
Science	3.00 credits
Ind./Voc. Electives	6.00 credits
Health & Phys. Ed.	<u>1.00 credits</u>
	21.00 credits

OHIO BOARD OF REGENTS' RECOMMENDATIONS...In Ohio, admissions officers at four-year colleges are looking for students who have successfully completed the Ohio Core Curriculum. Ohio Core is a solid set of high school courses that cover English, mathematics, science and social studies.

The Ohio Core Curriculum includes:

- 4 years of English
- 4 years of math, including Algebra II or its equivalent
- 3 years of lab-based science, including physical science and biology and one year selected from chemistry, physics, advanced biology, engineering science or biomedical science
- 3 years of social studies including American History and American Government
- ½ unit of health
- ½ unit of physical education
- 6 units to be chosen from foreign language, fine arts, business, technology and career technical

COURSE LISTINGS

ENGLISH

	Freshman Year	Sophomore Year	Junior Year	Senior Year
English	English 9	English 10	English 11	English 12
Advanced Pathway	Advanced English 9	Advanced English 10/ AP Capstone: Seminar	Advanced Placement Language and Composition AP Capstone: Research	Advanced Placement Literature and Composition

AP Literature & Composition

Course Number	000109	Credit	1.0
		Length of Course	Year
Grade	12	Prerequisite	Teacher Recommendation

Description: Designed to be a college level course, rich in higher level thinking, AP English Literature and Composition will challenge, inspire and enrich the eager literature student. Using works that range from the sixteenth through twenty-first century and as well several genres and modes, the reading, writing, listening and speaking experiences will broaden human understandings about the world around us today. Students, therefore, should expect a rigorous undergraduate English experience with intellectual challenges and a considerable workload that culminates with the AP English and Literature Exam in May. The cost of the AP Exam is included in the course fees. Upon earning a 3 or higher, the student will be awarded college credit which is accepted at most colleges and universities.

AP Language & Composition

Course Number	000106	Credit	1.0
		Length of Course	Year
Grade	11	Prerequisite	Teacher Recommendation

Description: Designed to be a college level course, rich in higher level thinking, AP English Language and Composition will challenge, inspire and enrich the eager writing student who has a passion for argument and analysis. Using a variety of materials (novels, fiction/non-fiction, poems, articles, essays, short stories, visuals- art/pop art/photography/media, film, short film, news programs, interviews, audio and video clips, etc.) chosen for their merit in the discussion/analysis of high interest cultural topics (previous topics have included: Education, Food, Beauty Standards, Gender Issues, Race and Religion in America, Politics and Economics and the Environment). Students, therefore, should expect a rigorous undergraduate English experience with intellectual challenges and a considerable workload that culminates with the AP English

Language and Composition Exam in May. The cost of the AP Exam is included in the course fees. Upon earning a 3 or higher, the student will be awarded college credit which is accepted at most colleges and universities.

AP Capstone: Seminar

Course Number	000104	Credit	1.0
		Length of Course	Year
Grade	10	Prerequisite	Recommendation

Description: In this yearlong course, students develop and strengthen analytic and inquiry skills, exploring two to four relevant issues chosen by the student and/or teacher. For example, students might explore the question of whether national security is more important than a citizen’s right to privacy, or whether genetic engineering is a benefit to society. Using an inquiry framework, students practice reading and analyzing articles; research studies; foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to consider an issue from multiple perspectives, evaluate the strength of an argument and make logical, fact-based decisions. Students question, research, explore, pose solutions, develop arguments, collaborate and communicate using various media. After taking AP Seminar, students will have the opportunity to further hone their inquiry and analytical writing skills in AP Research.

AP Capstone Seminar Assessment: AP Seminar students are assessed with two (2) through-course performance tasks and one (1) end-of-course exam. The performance tasks consist of an individual research report and a team project and presentation and an individual research-based essay and presentation. All three assessments are summative and are used to calculate a final AP score of 1 to 5. Only the team presentation is teacher-scored. The end-of-course exam is in May; it takes two (2) hours and consists of three (3) short-answer questions and one (1) essay question.

AP Capstone: Research

Course Number	000107	Credit	1.0
		Length of Course	Year
Grade	11	Prerequisite	Teacher Recommendation

Description: AP Capstone: Research is designed to be a college level course, rich in higher level thinking, allowing students to deeply explore an academic topic, problem or issue of individual interest. Through this exploration, students design, plan, and conduct a year-long research-based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing and synthesizing information as they address a research question. Students explore their skill development, document their processes and curate the artifacts of the development of their scholarly work in a portfolio. Students, therefore, should expect a rigorous undergraduate English experience with intellectual challenges and a considerable workload that culminates with an academic paper of 4,000-5,000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense. The cost of the AP Exam is included in the course fees. Upon earning a 3 or higher, the student will be awarded college credit which is accepted at most colleges and universities.

Film as Literature

Course Number	000110	Credit	.5
		Length of Course	Semester
Grade	9-12	Prerequisite	None

Description: This course is designed to explore literary and film techniques and their impact on communication in both academic and pop culture settings. In addition to reading several forms of literature, students will learn about the role of communication in our lives, the communication model, spatial relationships, delivery styles and the effectiveness of language, gestures, and organization techniques while studying and applying to film and literature. Assignments will give students a critical understanding of the analysis and rhetorical techniques of communication with a focus on text and films. Students will be required to view and read films and literature critically; participate in class discussion; work in small groups; and give and receive criticism. A portfolio of written work and a verbal evaluation and portfolio defense are required for this course.

Study of Short Stories & Creative Writing

Course Number	000111	Credit	.5
		Length of Course	Semester
Grade	9-12	Prerequisite	None

Description: This course offers an introduction to the basic techniques of analyzing prose fiction. Working with short stories, students learn to define questions of narrative construction, voice, characterization, theme and style. Students should expect to read substantial amounts of short stories (including fiction and nonfiction), to actively participate in class discussions and to write several short literary analyses. The skills developed in the study of short stories will ultimately be used to create their own creative pieces. A portfolio of written work (samples of literary analysis and creative pieces) and portfolio defense are required for this course.

Drama in Literature

Course Number	000112	Credit	.5
		Length of Course	Semester
Grade	9-12	Prerequisite	None

Description: This course is designed for students interested in dramatic literature and theater. Through assignments and activities, students will define the elements of dramatic literature, analyze and create characters, and critique dramatic performances and literature. Students will demonstrate skills in minor theater techniques as well as focus on analyzing and showcasing dramatic texts. Students will explore a variety of texts and plays ranging from the ancient Greeks to modern pieces. They will explore and analyze the development of characters, motivations within the text and directorial and acting choices. Students will be expected to deliver, discuss and critique interpretations and speeches in class focusing on speech patterns, inflections and motivations. A portfolio of written work and a verbal evaluation and portfolio defense are required for this course.

FINE ARTS

Through the Lens 1

Course Number	000017	Credit	.50
		Length of Course	Semester
Grade	9-12	Prerequisite	None

Description: This is an introductory course that will explore the elements of Photography and Video. Students will learn the technical aspects of Pre-production, Production and Post-production for Photography and Video. Students will explore the art of telling stories through imagery, editing and publishing their work. Students will use a wide variety of software and equipment such as Final Cut Pro, Photoshop and Lightroom.

Through the Lens 2

Course Number	000018	Credit	1.00
		Length of Course	Semester
Grade	9-12	Prerequisite	Through the Lens I

Description: Students will apply the elements learned in Through the Lens 1 to formulate an individual voice and personal style through the Photography and/or Video medium. This will be a self-paced course where students will propose a personalized learning path, document and reflect on their progress and publish their work for public display.

Innovative Design

Course Number	000022	Credit	.50
		Length of Course	Semester
Grade	9-12 9-12	Prerequisite	None

Description: Students will explore concepts associated with inventing, developing and marketing a product. They will research a topic, brainstorm and develop an innovative concept, design a prototype and create a plan for development and distribution of their invention.

Industrial Design

Course Number	000023	Credit	.50
		Length of Course	Semester
Grade	9-12 9-12	Prerequisite	None

Description: Students will work in a collaborative learning environment where they will research, conceptualize, problem solve and refine ideas in order to develop innovative design solutions. Students will use drawing, modeling and computer-aided tools to design consumer products such as automobiles, toys, furniture, jewelry and footwear as well as individual areas of interest.

Digital Media Arts and Emerging Technologies

Course Number	000021	Credit	.50
		Length of Course	Semester
Grade 9-12	9-12	Prerequisite	None

Description: This will be a self-guided course that allows students to choose a digital media concept and design projects that explore that concept in-depth. Students will be required to provide a weekly log of progress and will produce a final capstone project/presentation. Some media concepts to choose from would be: computer arts, electronic music, digital storytelling, filmmaking, game design, animation, visual effects, mobile media design and audio production.

Intro to Drawing and Painting

Course Number	000024	Credit	.50
		Length of Course	Semester
Grade	9-12 9-12	Prerequisite	None

Description: This introductory course will provide the student with a strong foundation in drawing and painting. With an emphasis on technical and problem-solving skills, students will learn observational drawing techniques and processes and will be introduced to the materials and approaches to painting as a means of expression and communication.

Intermediate Drawing and Painting

Course Number	000025	Credit	.50
		Length of Course	Semester
Grade	9-12	Prerequisite	Intro. To Drawing & Painting

Description: This course offers a continued study in drawing and painting concepts and techniques. Students begin building a personal artistic style through the exploration of a variety of subjects, strategies and experimental processes. The investigation and discussion of contemporary art and artists will aid the students in this process.

Accelerated Drawing and Painting

Course Number	000026	Credit	.50
		Length of Course	Semester
Grade	9-12	Prerequisite	Intermediate Drawing & Painting

Description: Designed as a self-directed course, students are responsible for developing and presenting a body of self-initiated work that expresses a personal vision and style. Students will receive personalized guidance and feedback through discussions, critiques and collaboration. With teacher recommendation, this course may be repeated for credit.

Foundations of Art and Design

Course Number	000027	Credit	.50
		Length of Course	Semester
Grade	9-12	Prerequisite	None

Description: This course examines the elements and principles of design as they relate both two-dimensionally and three-dimensionally in the visual arts. Using a broad variety of media including drawing, painting, printing and sculpture an emphasis will be on learning design concepts and creation of artwork. Personal expression, innovation, creative problem-solving and real-world applications will be provided in this course.

Sculpture and Expanded Media 1

Course Number	000029	Credit	.50
		Length of Course	Semester
Grade	9-12	Prerequisite	None

Description: This interdisciplinary course allows students to have the opportunity to work 3-Dimensionally in a variety of media, including clay. Craftsmanship, design and aesthetics will be emphasized as students create utilitarian and non-utilitarian forms. Students will explore various building and assembling processes and how things can be put together to give it context and meaning.

Sculpture and Expanded Media 2

Course Number	000028	Credit	.50
		Length of Course	Semester
Grade	9-12	Prerequisite	Sculpture & Expanded Media I

Description: Through guided instruction, students have the opportunity for a more intensive study of the sculpture process. In this course, students will begin developing a personal style and vision using media of their choice. An emphasis will be placed on craftsmanship, design, aesthetics and creativity. With teacher recommendation, this course may be repeated for credit.

Intro to Illustration and Graphic Design

Course Number	000031	Credit	.50
		Length of Course	Semester
Grade	9-12	Prerequisite	Intro to Drawing & Painting

Description: This course introduces students to fields of art that inspire and inform the consumers. Students will conceptualize, communicate and create visual interpretations using both traditional and digital media. With a focus of visual problem-solving, the students will gain experience in storyboarding, creating sequential art, logos, game and interior/exterior design.

Band

Course Number	512	Credit	1.0
		Length of Course	Year
Grade	9-12	Prerequisite	None

Description: The band program consists of the Symphonic Band and the "Pride of Fairview" Marching Band. Students are expected to be a part of both the Symphonic Band and the Marching Band. Emphasis is placed upon the performance of quality literature at the highest level possible. Exclusions from marching band require a doctor's certificate or participation in a fall sport that directly conflicts with marching band. Performance attendance is mandatory for all enrolled.

String Orchestra

Course Number	511	Credit	1.0
		Length of Course	Year
Grade	9-12	Prerequisite	None

Description: The String Orchestra performs at regular school concerts throughout the year. Repertoire performed is appropriate with the abilities of the members and covers a wide range of musical styles. All students currently enrolled in an orchestra class are eligible for the String Orchestra. Other interested students with prior experience must contact the director to schedule an audition.

Chamber Orchestra

Course Number	518	Credit	1.0
		Length of Course	Year
Grade	9-12	Prerequisite	Audition

Description: The Chamber Orchestra is geared toward the more advanced string players. Students in the Chamber Orchestra perform at regular school concerts as well as additional performances throughout the greater Cleveland area. The repertoire performed is advanced and covers a wide range of musical styles. Auditions for this group will occur in April and are open to all 8th-11th grade strings players. Please contact the director to schedule an audition.

Chorale

Course Number	514	Credit	1.0
		Length of Course	Year
Grade	9-12	Prerequisite	None

Description: Any student interested in singing and performing would enjoy this class. All types and styles of quality vocal literature are performed. There are four (4) major concerts for the Chorale, one each grading period and attendance is mandatory. Other performances are possible for community events. Students will also be introduced to music theory and sight reading skills.

Show Choir

Course Number	510	Credit	1.0
		Length of Course	Year
Grade	10-12 may audition; Gr. 9 audition by invitation only	Prerequisite	Audition

Description: Show Choir is a select ensemble that provides a special opportunity to combine vocal skills with movement and rhythmic skills in a high-energy performing group. Special performances will include luncheons, festivals and community events, as well as four (4) scheduled school concerts per year. Attendance at concerts is mandatory. Membership will be limited to students with a high school background in music and will be determined by audition. All students are encouraged to also take Chorale unless there is a scheduling conflict.

HEALTH/PHYSICAL EDUCATION

In accordance with Board Policy 6.16, students who participate in interscholastic athletics, marching band, cheerleading, drill team or synchronettes for at least two (2) full seasons are not required to complete the physical education one-half (½) unit to graduate, although the student must complete one-half (½) unit in another course of study.

HS Physical Education

Course Number	550	Credit	.50
		Length of Course	Year
Grade	9 - 12	Prerequisite	None

Description: Freshman Physical Education is a structured, co-educational program which provides a variety of learning experiences in team sports, individual and dual sports, aquatics (6 wk. requirement) and lifetime sports. There is a strong emphasis on physical fitness and testing. This course is designed for students who will not be participating in interscholastic athletics, marching band or cheerleading for their physical education requirement.

Team Sports

Course Number	548	Credit	.50
		Length of Course	Semester
Grade	10 - 12	Prerequisite	None

Description: Team sports will include softball, volleyball, football, basketball, and soccer. This class will also involve activities that would be considered a team sport through “relays” and “doubles” play. Examples of “relays” would include track, swimming and racquet sports. Examples of “doubles” play would include badminton and racquet ball. Freshman P.E. requirements must be satisfied in order to select this elective.

Personal Fitness & Weight Training

Course Number	578	Credit	.50
		Length of Course	Semester
Grade	11 - 12	Prerequisite	None

Description: This course addresses individual fitness levels through testing, evaluation and personal program planning. Included is daily cardiovascular work as well as an intense weight-training program. A swimming component for cardiovascular fitness and personal safety is also included. This course is an elective for upperclassmen. Note: There are components of the “Bigger, Faster, Stronger” program in this course. All students are expected to keep a fitness program on their computer for evaluation and credit. The class will also participate in bowling, soccer, golf and water polo.

Health

Course Number	555	Credit	.50
		Length of Course	Semester
Grade	9-12	Prerequisite	None

Description: This course introduces the student to the contemporary meaning of health and responsibilities of a wellness lifestyle. Emphasis is on exploring the "self" as it relates to a variety of timely topics. These topics include personality, suicide, cancer, tobacco and smoking, drugs/opiates prevention & abuse and addiction, human sexuality, dating, relationships, contraceptives, Sexually Transmitted Diseases, nutrition and exercise, 2-year CPR certification (HeartSaver through AHA) and final assessment & project. A student may be removed from any component through written communication with the teacher.

MATHEMATICS

	9th Grade	10 th Grade	11 th Grade	12 th Grade
Math	Algebra/Geometry	Geometry/Algebra II/Trig	Algebra II/Analysis or Foundations	Foundations/Analysis or Discrete Math
Advanced Pathways	Advanced Geometry or Advanced Algebra II/Trig	Advanced Algebra II/Trig or Advanced Pre-Calculus	Advanced Pre-Calculus or AP Calculus	AP Calculus or AP Statistics

Algebra I

Course Number	408	Credit	1.0
Grade	9	Length of Course Prerequisite	Year None

Description: Algebra I is the first of four (4) math courses designated for the college bound student. Some topics include solving multi-step equations and inequalities, graphing and analyzing functions, solving systems of equations, simplifying exponential expressions and modeling real-world situations through algebraic expressions. This course is a prerequisite for Geometry.

Advanced	Algebra	I
Course Number	Credit	1.0
Grade 9	Length of Course Prerequisite	Year Teacher Recommendation

Description: Advanced Algebra I is designed for students seeking the challenge of moving through the Algebra I curriculum at a quicker pace. Students who elect this level should be self-motivated and prepared to solve more difficult problems at higher levels.

Geometry

Course Number	411	Credit	1.0
Grade	9-10	Length of Course Prerequisite	Year Algebra I

Description: This course emphasizes logical reasoning. Topics include patterns, congruence, similar polygons, parallel and perpendicular lines, circles and right triangle trigonometry. There will be a moderate emphasis on algebra skills. A scientific calculator is required.

Advanced Geometry

Course Number	412	Credit	1.0
Grade	9	Length of Course Prerequisite	Year Algebra I/Recommendation

Description: This course is designated for accelerated math students. Topics are covered in more depth than in geometry and daily requirements are more rigorous. Scientific calculators are required. This course is weighted 0.5 quality point in the GPA.

Algebra II

Course Number	428	Credit	1.0
Grade	10-12	Length of Course Prerequisite	Year Geometry

Description: Alg. II is designed for students who have completed Geometry but will not advance to areas of trigonometry. Topics included in this course will be equations, inequalities, logarithms, polynomials and solving and graphing linear, quadratic and exponential functions. Graphing calculators required.

Algebra II/Trigonometry

Course Number	430	Credit	1.0
		Length of Course	Year
Grade	10-11	Prerequisite	Geometry

Description: This third year course in the college prep sequence studies linear, quadratic functions, polynomials and trigonometry. Real world modeling is emphasized. Graphing calculators are required.

Advanced Algebra II/Trigonometry

Course Number	420	Credit	1.0
		Length of Course	Year
Grade	9-10	Prerequisite	Geometry/Recommendation

Description: This is an accelerated course of Algebra II and Trigonometry. Topics are covered in more depth than in Algebra II/Trigonometry and daily requirements are more rigorous. Matrices, quadratics, functions, trigonometry and real world modeling are emphasized. Graphing calculators are used extensively and are required. This course is weighted 0.5 quality point in the GPA.

Math Analysis

Course Number	441	Credit	1.0
		Length of Course	Year
Grade	11-12	Prerequisite	Algebra II/Trig

Description: Math analysis is the fourth course of a college prep sequence designed to prepare the students for college mathematics. Topics covered are trigonometry, polynomials, logarithmic and exponential functions, probability, matrices and conic sections. Graphing calculators are required.

Honors Pre-Calculus

Course Number	431	Credit	1.0
		Length of Course	Year
Grade	10-11	Prerequisite	Honors Algebra II/Trig

Description: This course is designed to give students a rigorous training for calculus. Topics include analysis of polynomial functions, trigonometry, conic sections, logarithms, probability and introduction to limits. Graphing calculators are required. The grade in this course is weighted 0.5 quality points in the G.P.A.

Contemporary Mathematics

Course Number	449	Credit	1.0
		Length of Course	Year
Grade	11-12	Prerequisite	Algebra II

Description: This course is an introduction to applications of mathematics in contemporary life as well as financial literacy, dimensional analysis as applied to measurement and unit conversions, graph theory, topics in probability and descriptive statistics and applications of mathematics in contemporary life.

Discrete Math

Course Number	447	Credit	1.0
		Length of Course	Year
Grade	11-12	Prerequisite	Math Analysis/Pre-Calculus

Description: This course is designed for students who have completed Math Analysis or an equivalent course. Topics include exponents, logarithms, sequence and series, probability, statistics and conic sections. There will also be an introduction to calculus with topics including continuity, limits and derivatives. Graphing calculator required.

AP Calculus A/B

Course Number	442	Credit	1.0
		Length of Course	Year
Grade	11-12	Prerequisite	Recommendation

Description: Students who performed at a C level or higher in pre-calculus are eligible for AP Calculus. This course is a rigorous study of calculus using the AB syllabus. Students must complete a summer packet before school starts and are expected to spend 1-2 hours on daily homework. Graphing calculators are required. The grade in this course is weighted one (1) full quality point in the G.P.A. Students are required to take the AP Exam in May. The cost of the AP Exam is included in the course fees.

AP Statistics

Course Number	0000212	Credit	1.0
		Length of Course	Year
Grade	11-12	Prerequisite	Recommendation

Description: Students who have successfully completed an Algebra II course are eligible to take AP Statistics. This course is a rigorous study of statistics following the College Board course of study. Topics will include experimental design, exploring data, sampling techniques, probability and inference. Students must complete a summer packet before school starts and are expected to spend 1-2 hours on daily homework. Graphing calculators are required. The grade in this course is weighted one (1) full quality point in the G.P.A. Students are required to take the AP Exam in May. The cost of the AP Exam is included in the course fees.

SCIENCE

LS = Life Science

PS = Physical Science

Choices by Grade Level:

9th Grade	10th Grade	11th Grade	12th Grade
Biology (LS)	Material Science(PS) Chemistry (PS)	Advanced Chemistry(PS) Anatomy & Physiology(LS) Environmental Science(LS) Physics (PS) AP Physics 1 (PS)	Any course not already taken. Materials Science (PS) Anatomy & Physiology (LS) Environmental Science (LS) Physics (PS) AP Physics 1 (PS)
Advanced Biology (LS)	Advanced Chemistry (PS)	AP Physics 1(PS) AP Biology(LS) or Any advanced course not already taken.	Any course not already taken.

Biology

Course Number	620	Credit	1.0
		Length of Course	Year
Grade	10	Prerequisite	None

Description: Biology is a ninth grade course that focuses on inquiry and investigation. This course investigates the composition, diversity, complexity and interconnectedness of life on Earth. Fundamental concepts of heredity and evolution provide a framework through inquiry-based instruction to explore the living world, the physical environment and the interactions within and between them. Students engage in investigations to understand and explain the behavior of living things in a variety of scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications.

Either Biology or Advanced Biology is required to graduate high school.

Advanced Biology

Course Number	625	Credit	1.0
		Length of Course	Year
Grade	9	Prerequisite	Recommendation

Description: Advanced Biology is a laboratory-centered course designed for college-bound students interested in science related fields. The structure, function and evolution of living organisms are explored in detail. Reproduction of organisms and heredity traits of plants, animals and evolution are studied. The previous grades of students enrolling in this course should be above average. This is required as a prior course to A.P. Biology. This course is weighted 0.5 quality point in the GPA. Grades should be B or above. Students should be willing to perform a significant number of independent, out of class assignment.

Materials Science

Course Number	000304	Credit	1.0
		Length of Course	Year
Grade	10-12	Prerequisite	Biology

Description: This course involves the study of solid matter--the properties and basic chemistry of solids, metals, ceramics/glass, polymers and composites. Students will participate in lab investigations, projects, demonstrations and problem solving. A multi-instructional approach is used in the course. This approach focuses on solving problems, creating student projects, working in small groups on open-ended experiments, writing as a means of learning, participating in demonstrations and activities, using experts in materials and using a large variety of written resources and videos. The students will experience many activities that require critical thinking and problem solving skills. This lab-oriented, hands-on class will use a record-keeping method that is referred to as "journaling". The students will use a journal (binder) to keep a daily record of class events. Class events will include: activities, demonstrations, note-taking, extended labs, article summaries, reflections, etc. Students will also receive help in learning to organize their journals.

Chemistry

Course Number	630	Credit	1.0
		Length of Course	Year
Grade	10-12	Prerequisite	Algebra 1 preferred

Description: Chemistry is designed for college-bound students who are not intending to pursue a science degree. The course meets the needs of students who plan technical or allied health careers. Students are taught lab skills applicable to studies in other science courses. Theoretical aspects of chemistry such as atomic structure, atomic theory, stoichiometry, bonding, physical states of matter and energy relationships in chemical reactions are studied. A scientific calculator is required.

Advanced Chemistry

Course Number	635	Credit	1.0
		Length of Course	Year
Grade	10-12	Prerequisite	Advanced Biology/Advanced Algebra Preferred

Description: Advanced Chemistry is designed for college-bound students interested in a science related major or minor in college. Theoretical aspects of chemistry such as atomic structure, atomic theory, stoichiometry, bonding, physical states of matter and energy relationships in chemical reactions are studied. Students must have a competent mathematics background for successful completion of this course. A scientific calculator is required. This course is weighted 0.5 quality point in the GPA.

AP Biology

Course Number	642	Credit	1.0
		Length of Course	Year
Grade	11-12	Prerequisite	Advanced Biology, Chem/Adv Chem

Description: Advanced Placement Biology is a College Board second-year biology program requiring extensive laboratory work in all areas of advanced biology. As an A.P. course, it offers college level work for students interested in biological or medical careers. Approval of the instructor is necessary for enrollment. The grade in this course is weighted one (1) full quality point in the GPA. A summer assignment and extensive homework are required. Students are expected to take the AP Exam in May. The AP exam fee is included in the course fees.

Physics

Course Number	649	Credit	1.0
		Length of Course	Year
Grade	11-12	Prerequisite	Any Chemistry course

Description: Physics is designed to prepare students who may pursue science course(s) in college. Students will develop an understanding of how physics is experienced in their lives and as applied in the “real world”. Students will also improve their critical thinking skills, collaborative problem solving skills and independent problem solving skills. A scientific calculator is required.

Anatomy & Physiology

Course Number	679	Credit	1.0
		Length of Course	Year
Grade	11-12	Prerequisite	Two years of any science

Description: Anatomy & Physiology is a college preparatory lecture and lab based course focused on the application of knowledge to real clinical situations and career development. This course will focus on the study of the human body by examining biochemical processes, structure and function, and the interaction of body systems. These principles will be integrated with many topics including genetics, biotechnology, disease and medicine. The course will include dissection and students should be willing to participate. This course is designed for juniors or seniors who want to attend medical school or pursue a career in the medical field in areas such as nursing, veterinary, physical/occupational therapy and athletic training.

Environmental Science

Course Number	644	Credit	1.0
		Length of Course	Year
Grade	11-12	Prerequisite	Two years of science

Description: Environmental Science is designed for juniors and seniors who are interested in how various environmental issues affect the life around them both now and in the future. This class will focus on the concept of sustainability and explore possible solutions to complex environmental problems. Study of the earth and its systems from various perspectives will be emphasized and students will complete a number of in-depth projects and experiments during the year.

AP Physics I

Course Number	652	Credit	1.0
		Length of Course	Year
Grade	12	Prerequisite	Strong Alg. Skills

Description: The goal of AP Physics I is to provide students with an experience equivalent to an introductory college level physics course. Through the study of Physics, students will develop an

understanding of how physics is experienced in their everyday lives and how physics is applied in the “real world”. Students will develop and reinforce strong independent problem solving and critical thinking skills as well as collaborative problem solving skills. AP Physics I requires a serious commitment from students prepared to devote significant time outside of class to work on class assignments and independent study. The cost of the AP Exam is included in the course fee.

SOCIAL STUDIES

	9th Grade	10 th Grade	11 th Grade	12 th Grade
Social Studies	U.S. History	Government	World History	Electives
Advanced	Advanced U.S. History	AP U.S. History	AP Government	World History

US History

Course Number	730	Credit	1.0
		Length of Course	Year
Grade	9	Prerequisite	None

Description: This course is a survey of U.S. History from post-Civil War (Reconstruction) to the present. The causes and results of the major political, economic and social movements are at the core of the course with emphasis being placed more on the 20th century. The student is expected to improve study habits and develop skills which will promote the understanding of the story of America.

Advanced US History

Course Number	000403	Credit	1.0
		Length of Course	Year
Grade	9	Prerequisite	Recommendation

Description: Advanced U.S. History is a two-semester survey covering post-Civil War (Reconstruction) to the present. The reading and writing demands of the course are substantial, with a focus on preparation for the skills necessary in future AP courses. Subject matter will be presented chronologically with an emphasis on the political, social, economic and cultural development of our nation. Students will develop a better understanding of the great issues in United States history while improving their writing, research and critical thinking skills using both primary and secondary sources. This course is weighted 0.5 quality point in the GPA.

AP US History

Course Number	732	Credit	1.0
		Length of Course	Year
Grade	10	Prerequisite	Recommendation

Description: Advanced Placement United States History is a two-semester survey covering exploration and discovery to the present. The reading and writing demands of the course are substantial and equal to a college level introductory course in United States history. Subject matter will be presented chronologically with an emphasis on the political, social, economic and cultural development of our nation. Students will develop a better understanding of the great issues in United States history while improving their writing, research and critical thinking skills using both primary and secondary sources. In May, all students in this course will take the AP Exam. The cost of the AP Exam is included in the course fees. The grade in this course is weighted one (1) full quality point in the GPA.

World History

Course Number	000408	Credit	1.0
		Length of Course	Year
Grade	11/12	Prerequisite	None

Description: World History is the study of how our modern world has been shaped by political empires, religions and revolutionary events. In this non-linear class, current events of global concern will be examined using significant historical movements as a backdrop. This course aims to bring an old cliché to life: Those who do not know history are doomed to repeat it. This course will be offered starting in the 2019-2020 school year.

Government

Course Number	746	Credit	1.0
		Length of Course	Year
Grade	10	Prerequisite	None

Description: This course provides an analysis of the United States government and our Federal system which includes the workings of state and local governments. It will also provide an introduction to the study of the American Economic system. Students will explore contemporary political and economic issues, including those that guide individuals and nations as they make choices about how to use limited resources to satisfy their wants. More specifically, it examines the ability of individuals to use knowledge and skills to manage limited financial resources effectively for a lifetime of financial security. Further, increased understanding of political socialization throughout the course will help students develop their individual political ideology and identity to help in carrying out future civic duties and voting.

AP Government

Course Number	749	Credit	1.0
		Length of Course	Year
Grade	11	Prerequisite	Recommendation

Description: In AP U.S. Government, the students will be given an analytical perspective on government and politics in the United States. The students will study the general concepts of the Constitution, political beliefs and behaviors, citizen actions, the major institutions of the federal government, public policy and civil rights and liberties. The students will also be required to interpret and analyze the concepts they are learning. Upon completing this course, the students will be able to know and understand important facts, concepts, and processes of the U.S. government, recognize and understand typical patterns and events in politics of the United States and analyze and interpret data in charts and tables pertaining to the U.S. government. In May, all students in this course will take the AP Exam. The

cost of the AP Exam is included in the course fees. The grade in this course is weighted one (1) full quality point in the GPA.

Sociology

Course Number	748	Credit	.5
		Length of Course	Semester
Grade	12	Prerequisite	None

Description: Sociology is the study of how people behave in organizations. This course will emphasize the critical thinking skills needed to apply social norms to everyday relationships like work and family. Topics covered will include Groupthink, Mcdonaldization, Conflict Mediation, Capitalism, Marketing, Racism, Sexism, Criminal Ideation and Career Aptitudes.

Psychology

Course Number	743	Credit	.5
		Length of Course	Semester
Grade	12	Prerequisite	None

Description: Psychology is the study of how people process thoughts and develop personalities within various social constructs. In this class, students will examine how childhood cognitive development can impact mental well-being. Psychology will emphasize the critical thinking skills needed to analyse the personal and social relativity of DSM disorders and the therapy models that could best impact them. Topics covered will include Brain Development, Mental Illness, Dreams, Locus of Control and the Nature vs. Nurture Debate.

SPECIAL PROGRAMMING

Pre-Vocational Workshop

Course Number	000808	Credit	1.0
		Length of Course	Year
Grade	9-12	Prerequisite Recommendation	

Description: In workshop, students participate in a variety of functional tasks designed to build basic work behaviors, attitudes, and responsibilities. Students are presented with opportunities to perform community work experiences and apply functional academics to real world work experiences. Course is available to high school students.

WORLD LANGUAGES

French I

Course Number	211	Credit	1.0
		Length of Course	Year
Grade	9-12	Prerequisite	None

Description: French I class develops basic conversational and written patterns that are reinforced through grammar exercises, auditory language activities and a variety of multimedia materials. French customs and geography are also introduced. Many cultural topics will be explored and a variety of project based assessments using technology will enhance the language learning. A grade of C or better in your English class is highly recommended.

French II

Course Number	212	Credit	1.0
		Length of Course	Year
Grade	9-12	Prerequisite	French I

Description: French II puts equal emphasis on the four language skills (speaking, comprehension, reading and writing). Through varied activities, the student will become more proficient in speaking, reading, writing and comprehension of the spoken French word. Many cultural topics will be explored and a variety of project based assessments using technology will enhance the language learning. A grade of C or better in Level I is highly recommended.

French III

Course Number	213	Credit	1.0
		Length of Course	Year
Grade	10-12	Prerequisite	French II

Description: Increased proficiency in the language will be the number one goal of this course. The student will improve his/her ability to converse and comprehend spoken French, as well as develop and refine reading and writing skills. Some short stories will be read. Cultural study will continue to expand as well as the use of a variety of techniques to enhance the spoken language. A variety of project based assessments using technology will reinforce and enhance the language learning. Student work will be more rigorously assessed. A grade of C or better in Level II is highly recommended.

Advanced French IV

Course Number	214	Credit	1.0
		Length of Course	Year
Grade	11-12	Prerequisite	French III

Description: The student will have a command of French to comfortably and competently speak and understand the spoken language. The student will also be asked to read and write at higher levels of expectancy. Literature studied will include short stories and one novel. Emphasis will be placed on preparing students for college entrance exams and courses.

AP French

Course Number	215	Credit	1.0
		Length of Course	Year
Grade	12	Prerequisite	Honors French IV

Description: In this course, the student will assume the same work as that of a second-year college student. The student will have an added advantage for language success on college placement exams and in college language courses. In-depth study of various cultural topics and related field trips are also a possibility. Students in this course may be scheduled concurrently with those in French IV. The grade in this course is weighted one (1) full quality point in the G.P.A. An average grade of C or higher in French IV is highly recommended. The cost of the AP Exam is included in the course fees.

Spanish I

Course Number	231	Credit	1.0
		Length of Course	Year
Grade	9-12	Prerequisite	None

Description: Spanish I is for students who wish to start the study of Spanish. From the beginning, emphasis is placed on all four language skills - listening, speaking, reading and writing. Basic vocabulary and grammar are developed through conversation, oral and written practice, workbook exercises and CDs and videos with native speakers. A cultural overview of the many parts of the Spanish-speaking world is included. Also, the incorporation of technology will further enrich the course. A grade of C or better in your English class is highly recommended.

Spanish II

Course Number	232	Credit	1.0
		Length of Course	Year
Grade	9-12	Prerequisite	Spanish I

Description: Spanish II builds upon the base established in Spanish I as new material is interwoven with a review of the old. Vocabulary and grammar study continue through conversation, games, workbook exercises, CDs and videos as the student develops an active, conversational usage of Spanish. Cultural study continues to expand students' knowledge of the Spanish-speaking world. Also, the incorporation of technology will further enrich the course. A grade of C or better in Level I is highly recommended.

Spanish III

Course Number	233	Credit	1.0
		Length of Course	Year
Grade	10-12	Prerequisite	Spanish II

Description: In Spanish III, there is continued review of grammar along with a focus on new material including more verb tenses, vocabulary and the Spanish speaking world. Class discussions, interactive activities, informal discussions and writings help develop more effective communication skills useful in our increasingly global society. Students continue and deepen their study of the language, lands and people of the Spanish speaking world. A grade of C or better in Level II is highly recommended.

Advanced Spanish IV

Course Number	234	Credit	1.0
		Length of Course	Year
Grade	11-12	Prerequisite	Spanish III

Description: Advanced Spanish IV continues practice in language production and comprehension incorporating previously learned material with more accuracy, vocabulary and grammatical skill. Writing practice is designed to develop proficiency and creativity. Oral skill is developed through daily discussions on a wide variety of topics and settings. Literature studied includes short stories and articles from a wide variety of authentic sources and more in-depth focus on the cultures and histories of the Spanish speaking countries are explored. Emphasis is on preparing students for college entrance exams and courses. An average grade of C or higher in Spanish III or Spanish III Honors is highly recommended.

AP Spanish

Course Number	235	Credit	1.0
		Length of Course	Year
Grade	12	Prerequisite	Honors Spanish IV

Description: This final course in the Spanish curriculum is designed for those students who would like to strengthen, expand, and “put the finishing touches” on their language skills prior to employment or college entrance. Students conduct one major project per quarter, read numerous authentic materials of various formats, watch/discuss movies produced in the Spanish speaking world, increase native-like ability to synthesize their written and spoken production and comprehension skills. The grade in this course will be weighted one (1) full quality point in the GPA and is conducted as a second year college level class. An average grade of C or higher in Spanish IV Honors is highly recommended. The cost of the AP Exam is included in the course fees.

PROJECT LEAD THE WAY (PLTW)

Courses Provided in Collaboration with Polaris Career Center

Engineering

Introduction to Engineering Design (IED)

Course Number	000913	Credit	1.0
		Length of Course	Year
Grade	9&10	Prerequisite	None

IED is open to students in 9th-10th grade. Students in the 11th and 12th grade need permission from their instructor and guidance counselor.

Description: Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3-D modeling software, and use an engineering notebook to document their work.

Principles of Engineering (POE)

Course Number	00914	Credit	1.0
		Length of Course	Year
Grade	10-12	Prerequisite	see below

POE is open to students in 10th-12th grade. Students in 9th grade need permission from the instructor and guidance counselor. Successful completion of Algebra II recommended.

Description: Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

Digital Electronics (DE)

Course Number	000915	Credit	1.0
		Length of Course	Year
Grade	10-12	Prerequisite	None

DE is open to students in 10-12th grade. Students in 9th grade need permission from the instructor and guidance counselor.

Description: From smartphones to appliances, digital circuits are all around us. This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices.

AP Computer Science Principles (AP-CSP)

Course Number	000916	Credit	1.0
		Length of Course	Year
Grade	11-12	Prerequisite	None

AP-CSP is open to students in 11th – 12th grade. Students must have taken 1 previous PLTW Engineering Course earning a passing grade. Students in grades 10th–12th can be awarded special permission from the instructor and guidance counselor.

Description:

Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. Computer Science Principles helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. PLTW is recognized by the College Board as an endorsed provider of curriculum and professional development for AP® Computer Science Principles (AP CSP). This endorsement affirms that all components of PLTW CSP's offerings are aligned to the AP Curriculum Framework standards and the AP CSP assessment.

Biomedical Science

Principles of Biomedical Sciences (PBS)

Course Number	000900	Credit	1.0
		Length of Course	Year
Grade	9-10	Prerequisite	none

PBS is open to 9-10 grade students. Students in 11th and 12th grade need permission from the instructor and guidance counselor.

Description: In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

Human Body Systems (HBS)

Course Number	000910	Credit	1.0
		Length of Course	Year
Grade	10-12	Prerequisite	Principles of Biomedical

HBS is open to 10th-12th grade students. Students in 9th grade need permission from the instructor and guidance counselor.

Description: Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis in the body. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

Medical Intervention (MI)

Course Number	000911	Credit	1.0
		Length of Course	Year
Grade	10-12	Prerequisite	see below

MI is open to 10th -12th grade students. Students in 9th grade need permission from the instructor and guidance counselor.

Description: Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

Biomedical Innovation (BI)

Course Number	000912	Credit	1.0
Grade	11-12	Length of Course	Year
		Prerequisite	Medical Intervention

BI is open to 11th -12th grade students.

Description: In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent project with a mentor or advisor from a university, medical facility, or research institution.

Computer Networking Academy

IT 1025**Information Technology Concepts for Programmers**

This course is a 16 week online course offered by Polaris Career Center and Tri-C

CCP (Tri-C)

Open to 10th grade students and open to select 9th grade students per counselor recommendation. All other students will need permission from instructor and school counselor. Student must be enrolled as a College Credit Plus Student (CCP) to register for this course. Please see school counselor for additional information.

3 College credits

.5 High School credit

This is a college level course offered in the 10th grade. Introductory class is designed for students pursuing careers in programming, networking and general information technology fields. You will be exposed to computer, networking and programming concepts.

FAIRVIEW PARK CITY SCHOOLS

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