

FLEETWOOD AREA HIGH SCHOOL

PROGRAM OF STUDIES 2023 - 2024



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Dear Parents/Guardians:

To begin the scheduling process for the 2023-2024 school year, the high school prepares a course selection guide. This guide is updated each year to provide your children with the most up to date opportunities in education. To aid in the selection process, the course Guide has a Career Pathway focus.

We feel that working together as parents, students, educators, and business members, we can continue to maintain the strong community that surrounds us.

The Career Pathways approach to education allows your child to focus in on areas of academics that match up with career interests. As your child considers 'life after high school', whether that includes post-secondary education (college, trade school), entering the work force, or joining the military, the career pathway look to the catalog will guide the process. Our hope is that this will help students understand the true value each course has to offer as it relates to the next stage in life.

We encourage you and your child to take the time to review the options presented in this catalog. Our goal is to provide your child with the highest quality education in an effort to help him/her be as successful as possible at the next stage in life. When students leave our walls, we want every opportunity to remain available, every door to remain open, and every challenge met in hopes to give your child the confidence and drive necessary to persevere through life's trials.

We look forward to helping you and your child through this process.

Respectfully,

Fleetwood Area High School Staff

OVERVIEW

The objective of a "Course Selection Guide" is to make available to the students and their parents information concerning the selection of a program of studies throughout the high school years. Consequently, plans based on students' aptitudes and interests must be made. You should take the time to read this booklet thoroughly. The choices you make will greatly influence your life beyond high school.

The information provided herein is intended solely for students and their parents in order to enable them to assume the major responsibility in this planning. In choosing the courses in a program of study, it is extremely important to give serious thought to the student's aptitude, ability, and interests, past academic record and future educational and career goals. Since people often change careers during their life, it is important to make course selections broad enough to keep open a range of options. Students and parents are urged to seek the advice of teachers and counselors for assistance in determining an objective and realistic appraisal of the students' abilities so that they may realistically reach their potential.

In addition, computer programs are available for use by students and parents. We utilize the Naviance program which we feel greatly enhances the college/career search process.

COURSE SCHEDULING

The master schedule is built so as to minimize the number of conflicts and maximize the number of students who are scheduled for all their course requests. The process begins early in the preceding year with a review of curriculum offerings by faculty and administration. Students must maintain a full schedule with a maximum of 1 study hall. **Course Offerings, Staff Assignments, Class Sizes, and Materials are dependent on student requests, which is why it is crucial that requests are made thoughtfully.**

SCHEDULE CHANGES

Once the courses and other learning opportunities have been selected and approved by the parents, **no changes will be made unless approved by a principal.** Courses are offered based on student requests. This often results in courses not being offered due to another course with greater interest. Course selection changes often result in the denial of opportunities for some students and the over enrollment in other courses. Withdrawals from a course requires a principal's approval. The student must provide proof of extenuating circumstances that they cannot complete the course and parental approval before consideration by a principal. Any course that is dropped after the school year begins will be noted on the report card and becomes a permanent part of the student's transcript until the course is repeated and completed. A mark of WF (withdraw-failing) will be recorded.

PREPARATION FOR HIGHER EDUCATION

If a student is planning on furthering education beyond high school, it is strongly recommended that the student and parents begin as early as possible to research specific entrance requirements as stated in individual college catalogs. This responsibility must be shared jointly by both parents and students. There are many college research materials available in the Counseling Office and the counselor will welcome any questions from parents or students in regard to admission policies and requirements of any particular college.

For some students a specific choice of college will not occur until early in the senior year of high school. If you are one of these students, you should be certain that you are able to meet the admission requirements of many of the institutions of higher learning.

You can do this by:

- (1) Selecting a secondary program that will enable you to meet the admission requirements of most colleges and that offers a challenge to you.
- (2) Your secondary school record is the most important factor in gaining admission into college. Good grades acquired in elective subjects are of limited value if they do not pertain to the student's goal or are valued by the college as "fill-in" courses. Which courses are taken and how often these courses are taken are of real concern to the colleges.
- (3) Since it is a human characteristic for one's interests and goals to change, it is advisable in selecting courses to prepare oneself for many colleges-not just one particular institution of higher learning.
- (4) The most important part of the admission process is sending a transcript to the college. Your record is compared with the records of other students from other high schools throughout the United States and some foreign countries. The final decision on admission is based on the type of courses you have taken and your academic achievement in these courses. Other factors considered are participation in extra-curricular activities and teacher recommendation letters.

SCHOOL COUNSELING SERVICES

School Counseling services are available to every student of Fleetwood Area High School. Students who need assistance in educational, vocational and personal problems should make an appointment with the school counselor as soon as they possibly can. This may be done by coming to the School Counseling Office before or after school or during a study period. Parents are encouraged to meet with the school counselor whenever they have questions pertaining to the student's present or future plans.

BERKS CAREER & TECHNOLOGY CENTER

The Berks Career and Technology Center (BCTC) offers over thirty programs in different career areas to students from 16 area school districts. Two campuses serve students in Berks County. The East campus is located in Oley and the West campus is located in Leesport. Students will take required academic courses at their high school while attending the BCTC for their technical program. Programs are designed for three years in length beginning in the 10th grade; however, 11th and 12th grade students may also begin a program. All programs are available to students regardless of district location.

Laboratories equipped with computers, industrial machinery, and other state-of-the-art equipment provide hands-on training for students in addition to the academic component of each course of study. All curriculum is competency based, allowing students to proceed at a rate that is best for them and tailored to meet their own career objectives.

Tuition-free public education is provided to high school students through the tax support of citizens and businesses from each of the sixteen Berks County school districts. Adults are required to pay tuition based on an annually approved tuition rate. Students are required to purchase uniforms, books/workbooks, tools and personal protective equipment. Also, students must pay for certification testing fees.

There are many opportunities available for students enrolled in a BCTC program. All programs prepare students for immediate employment or higher education. Senior students who demonstrate a high level of competency in their program can participate in a supervised work-based learning experience. In addition, articulation agreements with the following post-secondary schools provide advanced credits or advanced placement: Berks Technical Institute, Lehigh Carbon Community College, Lincoln Technical Institute, Northampton Community College, Northwestern College, Ohio Technical Institute, Pennsylvania College of Technology, Pennsylvania School of Art & Design, Reading Area Community College, Schuylkill Institute of Business & Technology, Thaddeus Stevens College of Technology, Thompson Institute, and Universal Technical Institute. Currently, over thirty BCTC programs have articulation agreements to offer students advanced credit at the post-secondary level to pursue a certificate, associate, or baccalaureate degree.

BCTC APPLICATION PROCESS

Students apply for enrollment at BCTC through their school counselor. All student applications are sent to BCTC where candidates from throughout the county are chosen. Each student application is reviewed according to the following criteria:

Student Interest - The thoroughness of the application is viewed as a measure of the interest of the student applicant. Special attention is paid to what research was done to find information about the career area to which a student is applying.

Teacher Evaluation - Students may request evaluations from high school teachers of their choice.

Counselor Recommendation

School Citizenship - Student behavior and attitudes are noted.

Attendance - Students should have strong patterns of school attendance.

Grades - While grades are important, they are not the most critical item.

Aptitude - Does the student possess the potential to be successful in the field?

Health - While not restricting a student's selection, health concerns are a necessary consideration. Conditions such as color blindness, fear of heights, etc. will affect success in certain programs.

www.berkscareer.com

INTERNSHIP PROGRAM

Students in 11th or 12th grade who are in good standing, both academically and behaviorally, may choose to participate in the Student Internship Program. Participation in the program must align with a student's graduation requirements, and the internship must fit accordingly into the student's academic schedule at the high school. Parent consent is also required for participation.

The Student Internship Program at Fleetwood Area High School is an elective course available to juniors and seniors. The purpose of this course is to provide a practical introduction and application of skills to the professional work environment through direct contact with professionals in the community. This program will prepare our students for a career, help them explore their career interests, and develop employability skills through a hands-on experience. The Student Internship Program coincides with the high school's Career Pathways approach to education that allows students to focus on areas of academics that match their career interests.

Internships will be tailored to the student's career interests and/or post-secondary goals. The student can earn the required hours through an adjusted daily academic schedule. An internship site agreement outlines the expectations of all parties: the student, parent, internship coordinator, work site supervisor, and school.

Students choose the length of their internship based on individual goals/time.

- Semester credit – 120 hours
- Year-long credit – 240 hours

In order to meet the necessary hours, it is recommended that students be at their internship approximately seven hours per week.

It is the responsibility of the student to arrange for appropriate transportation to and from the internship site. Transportation will not be provided by the high school.

GRADUATION REQUIREMENTS

Fleetwood Area High School offers a comprehensive scholastic program. Such a program permits the student the opportunity to enter an institution of higher learning, to enter the workforce, military, or to seek immediate employment in a selected occupation after graduation.

In addition to the Keystone Assessments, all students must complete **25 credits** to graduate from Fleetwood Area High School. This is in accordance with the Fleetwood Area School District graduation policy #217.

GRADUATION REQUIREMENTS FOR THE GRADUATING CLASSES OF 2024 & 2025 INCLUDE MINIMUMS IN THE FOLLOWING AREAS:

- 4 Credits of English
- 4 Credits of Math
 - 3.5 (BCTC)
- 4 Credits of Social Studies
 - 3 (BCTC)
- 3 Credits of Science
- 0.5 Credit of Health
- 1.5 Credits of Physical Education
- 1 Credit of Technology Education/Business Education
- 1 Credit of The Arts
- 1 Credit of Humanities
- 5 Credits of Electives

BCTC:
(Adjusted requirements based on program enrollment)

Total Credits: 25

GRADUATION REQUIREMENTS FOR THE GRADUATING CLASSES OF 2026 & BEYOND ARE THE SAME AS ABOVE WITH THE FOLLOWING ADJUSTMENTS:

- 3 Credits of Math*
**All Math Credits MUST be earned while enrolled in grades 9-12*
- 0.5 Credit of Financial literacy
- 5.5 Credits of Electives

Total Credits: 25

PROMOTION REQUIREMENTS

To be considered a sophomore, a student must have earned 6 credits by the end of his/her freshman year.

To be considered a junior, a student must have accumulated 12 credits by the end of his/her sophomore year.

To be considered a senior, a student must have accumulated a total of 18 credits by the end of his/her junior year.

CREDIT RECOVERY

Courses passed through Credit Recovery are graded as Satisfactory/Unsatisfactory and do not receive a percentage score. These courses do not receive a GPA calculation. Also, they do not replace the original failing grade on the transcript.

GRADUATION INFORMATION

The high school principal will determine a student's eligibility for a diploma from Fleetwood Area High School and certify that the student has met all course and credit requirements. Only students who have met all of the graduation requirements will be eligible to participate in the graduation ceremony. Seniors DO NOT walk in graduation in anticipation of completing classes over the summer or on-line.

INDEPENDENT STUDY ELECTIVES

The Independent Study Program is designed for students who have demonstrated a high degree of motivation and have the ability to work independently. To enroll in an independent study program, a student must be in 11th or 12th grade, have the approval of the teacher, the school counselor, and the High School Principal. Applications are available from the school counselors. Teachers are required to develop a full and complete description of each independent study program.

NCAA CLEARINGHOUSE

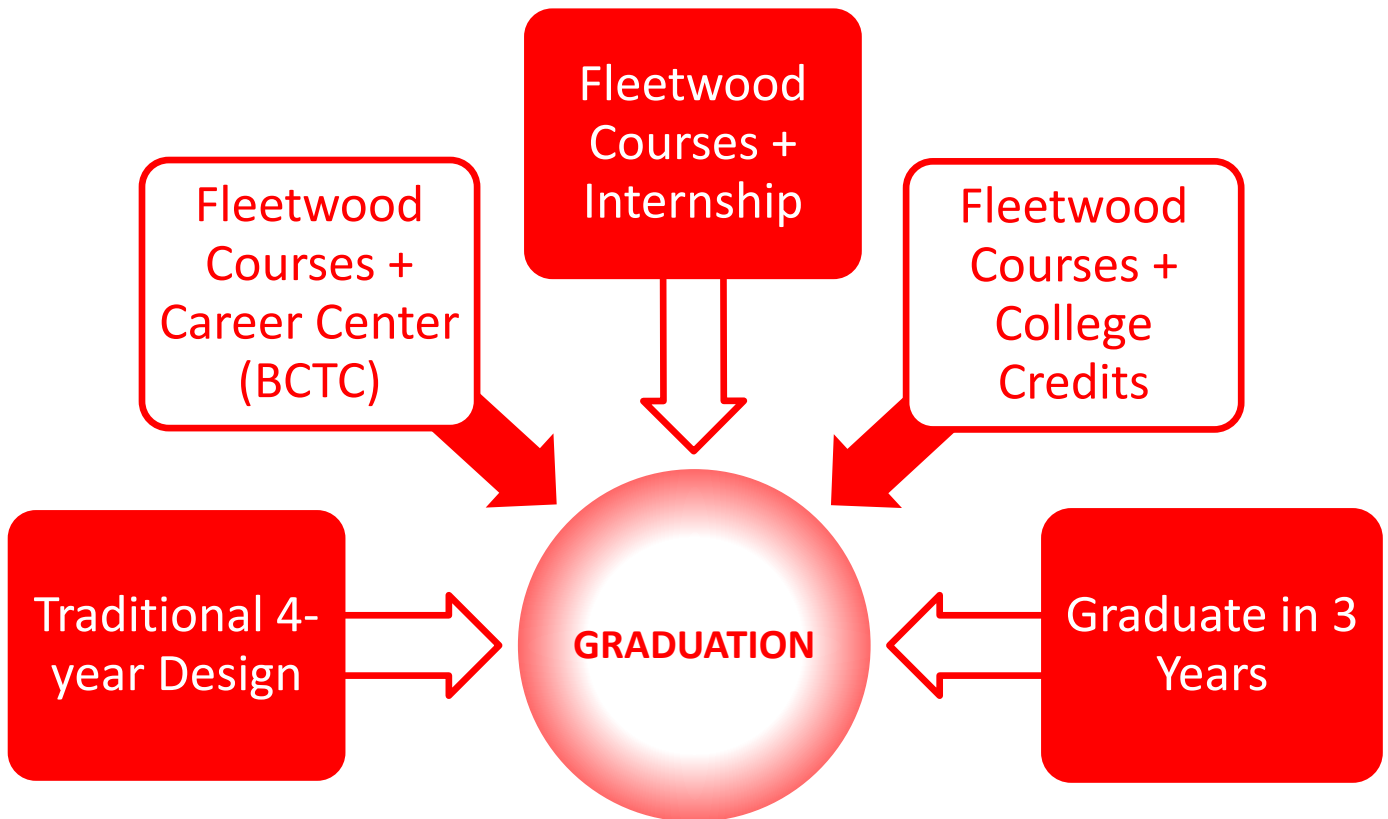
A student is required to meet specific academic core requirements to participate in college athletics. **If you are hoping to be a part of a college sports program**, please discuss this with your school counselor to ensure appropriate academic course selections in all four grades. SAT and ACT requirements will vary according to your GPA. Details are available from your school counselor.

Approved NCAA Eligibility Courses are identified with the Eligibility Center (NCAA). This icon can be found near the 'credit type' of the associated course as shown below.

English 9	
Course Number	Prerequisite
101	none
Students are encouraged to define and examine the areas of gran enhanced with varied authors who write in many different genre unit will help students to sharpen skills by focusing on specific projects and present themselves in class demonstrations. Require specified due dates, and achieving set standards.	
English Credit	NCAA

BCTC Courses may not be NCAA approved

ACADEMIC OPTIONS ON YOUR WAY TO GRADUATION



YOU CAN FIND INFORMATION ON THE ABOVE ITEMS ON THE PAGES PRECEDING THIS GRAPHIC.

- Graduation Requirements
- BCTC Information
- Internship Program
- Dual Enrollment

For more information
on these options, including dual enrollment, please seek out
your school counselor.

Profile of a Graduate

Fleetwood Area School District



Pennsylvania Pathways to Graduation

Keystone Proficiency Pathway *Numeric or Non-Numeric Scores*

Algebra I
Proficient or Advanced

Biology
Proficient or Advanced

Literature
Proficient or Advanced

Keystone Composite Pathway *Numeric Scores Only*

At least 1 Keystone Exam scaled score is
1500 or Greater

No Keystone Exam score is
Below Basic

The Keystone Exam 3-score composite is
4452 or Greater
The Keystone Exam 2-score composite is
2939 or Greater
(where eligible under §121.1)

CTE Concentrator

Meet locally established, grade-based requirements for Keystone content in which the student is less than Proficient

CTE Concentrator

1 Artifact from pathway criteria

Alternative Assessment

Meet locally established, grade-based requirements for Keystone content in which the student is less than Proficient

Alternative Assessment

1 Artifact from pathway criteria

Evidence-Based Pathways

Meet locally established, grade-based requirements for Keystone content in which the student is less than Proficient

Evidence-Based

3 Artifacts from pathway criteria

Pathway Criteria

See next page for detailed information regarding options to obtain specific pathway criteria as they relate to CTE Concentrator, Alternative Assessment, and Evidence-Based Pathways.

Students with Disabilities

A student with a disability who is unable to satisfy pathway requirements but who satisfactorily completes a special education program is granted a diploma under Title 22 §4.24.

Pathway Criteria

CTE Concentrator	Alternative Assessment	Evidence-Based
1 Artifact	1 Artifact	3 Artifacts consistent w/student goals ONE or more from Section One No more than TWO from Section Two
Industry-based competency certification Likelihood of industry-based competency assessment success Readiness for continued engagement in CTE Concentrator program of study	Attainment of one alternative assessment score or better: ACT (21), ASVAB AFQT (31), PSAT/NMSQT (970), or SAT (1010) Attainment of Gold Level or better on ACT WorkKeys Attainment of 3 or better on AP Exam(s) related to each Keystone content area in which less than Proficient Attainment of 4 or better on IB Exam(s) related to each Keystone content area in which less than Proficient Successful completion of concurrent enrollment course(s) related to each Keystone content area in which less than Proficient Successful completion of a pre-apprenticeship program Acceptance into accredited, non-profit Institution of Higher Education (IHE) 4yr program for college-level coursework	Section 1 Attainment of 630 or better on any SAT Subject Test Attainment of Silver Level or better on ACT WorkKeys Attainment of 3 or better on any AP Exam Attainment of 3 or better on any IB Exam Successful completion of any concurrent enrollment or postsecondary course Industry-recognized credentialization Acceptance into accredited, non-profit Institution of Higher Education (IHE) for college-level coursework in an other-than-4yr program
		Section 2 Attainment of Proficient or Advanced on any Keystone Exam Successful completion of a service-learning project Letter guaranteeing full-time employment or military enlistment Completion of an internship, externship, or cooperative education program Compliance with NCAA Division II academic requirements

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CLASS RANK

Class rank is computed on the basis of grades earned in subjects taken in grades 9 through 12 for which course credit and grade point credit is granted.

For grade-point average calculations the following courses are weighted:

Students receiving a grade of Incomplete will not have their GPA recalculated until the end of the following quarter.

The following is the list of Weighted Course Offerings:

Accelerated English 9
 Accelerated English 10
 Accelerated English 11
 AP English
 Honors Algebra II
 Honors Pre-Calculus w/Trig
 Honors Geometry
 AP Calculus
 AP Computer Science A
 AP Statistics
 Biology II
 Accelerated Biology
 Accelerated Chemistry
 Anatomy & Physiology
 AP Biology
 AP Chemistry
 Accelerated Earth & Space
 AP Physics C: Mechanics
 Chemistry II
 Accelerated American History I
 AP World History: Modern
 AP U. S. History
 AP US Government
 AP Macro Economics
 Spanish III
 Spanish IV
 Spanish V
 German IV
 German V

FLEETWOOD AREA HIGH SCHOOL offers several different options to earn college credit while still attending high school; please click on the following link to learn more:

[Dual Enrollment Brochure](#)

DUAL ENROLLMENT

FAHS has partnered with RACC to allow students the opportunity to earn college credit for the college-level courses they take at FAHS. These courses parallel the same competencies and expectations as their RACC counterparts and the FAHS teachers are held to the same qualifications as RACC adjunct faculty. Students interested in enrolling must complete the RACC registration forms and pay tuition per credit hour.

After completing the course at FAHS, the student will earn college credit from RACC for grades of "C" or higher. Most year-long FAHS dual enrollment courses can count for two separate courses at RACC, earning students up to 8 college credits per course. Students should consult the patrac.org or collegetransfer.net sites to research the transferability of dual enrollment credits. Student are responsible for obtaining official transcript from RACC.

Beginning the 2023-2024 school year, all dual enrollment courses will be weighted at 1.1 in accordance with Act 55.

The following is the list of all the Dual Enrollment classes:

Accelerated English 12
 AP English
 Honors Calculus
 Honors Pre-Calculus w/Trig
 AP Calculus
 AP Statistics
 AP Computer Science A
 Anatomy & Physiology
 Accelerated Biology
 AP Biology
 AP Chemistry
 AP Physics C: Mechanics
 AP World History
 AP US History
 AP Government
 AP Macroeconomics
 Spanish III
 Spanish IV
 Spanish V

FASD VIRTUAL ACADEMY

The FASD Virtual Academy is an extension of the Fleetwood Area School District that provides an online education for students who choose this learning pathway. We offer online courses to satisfy a variety of student needs. Students may choose to take all their courses online or they may choose to take a blending of online courses and traditional brick-and-mortar courses in our schools. Courses will be provided asynchronously.

FASD Virtual Academy offers a wide variety of online courses including unique electives. Courses may be taught by Fleetwood teachers or teachers provided by outside vendors dependent on the course and enrollment numbers. Our online students have the flexibility to work on their courses full-time at home or choose part-time online and in school. Please consult with your school counselor for the best options for your student. FASD Virtual Academy students also have the opportunity to participate in school activities, events, and extra-curricular programs.

By participating in our online program, students will be provided local technology support, teacher support, asynchronous courses, and the ability to take state-mandated testing (Keystones) in our schools.

ARTS & COMMUNICATION

1

Arts, A/V Technology & Communication

Audio/Visual Technology
Video Production & Film
Journalism & Broadcasting
Performing Arts

Interactive Media
Telecommunications
Visual & Design Arts
Photography

Journalism
Public Relations (PR)
Marketing & Advertising
Writing

Printing/Publishing
Internet Design
Graphic Design

Do you like to Design, Perform, and/or Create New Things?

Are Fine Arts, English, and/or Media Production some of your Favorite Classes?

THE FOLLOWING IS A FULL LIST OF COURSE OFFERINGS IDENTIFIED WITHIN THE ARTS & COMMUNICATIONS PATHWAY:

Intro to High School Art	9	Introduction to TV Media	19	World Music	32
Art & Design	9	TV Media	19	Class Piano	33
Art Portfolio Preparation	9	Intro to Communications & Media Literacy	19	Instrumental Music: Guided Practice	33
Adv. Art Portfolio Preparation	9	Documentary Filmmaking	19	Music Technology	33
Ceramics	9	Film History	19	20 th Century Popular Culture	41
Color & Painting	9	Introduction to the Holocaust through Film & Literature	19	Women's Studies	42
Drawing	10	The Holocaust in American Popular Culture	20	World War II through Film & Literature	42
Fantasy in Art	10	Conspiracy Theories	20	Global History	42
Sculpture	10	Research Seminar	20	Geography	41
Craft Design	10	Charlie Chaplin: His Life & Films	20	<i>Hamilton</i> , Founding Fathers & Early Republic	41
The Business of Art	10	Journalism	20	Anthropology	41
Careers in The Arts	10	Yearbook	21	Photography	44
Theatrical Performance	11	News Magazine	21	Photography Studio	45
Theatrical Production	11	Intro to Coaching	24	Computer Aided Design (CAD) Concepts	45
Business Leadership	12	Strength & Conditioning I	24	Advanced CAD	45
Introduction to Business	12	Strength & Conditioning II	24	CAD Research & Development	46
Sports & Entertainment Business	12	Fitness through the Ages	24	Engineering Design	45
Sports & Entertainment Marketing	12	Managing Stress through Physical Fitness	24	German I	47
Business Communications	13	Sports Officiating	25	German II	47
eCommerce – Adv. Web Design	13	Team Sports Concepts	25	German III	47
Entrepreneurship	13	Aerobic Dance	25	German IV	47
International Business	13	Statistics	29	Spanish I	47
Website Design	14	AP Statistics	30	Spanish II	47
Accelerated English 11	16	Intro to Computer Science	26	Spanish III	48
Accelerated English 12	16	Computer Programming courses	26	Spanish IV	48
AP English 12	17	Band	31	Spanish V	48
Creative Writing	17	Chorus	31	Passport to Travel	48
Advanced Fiction Writing	17	Orchestra	31	Exploring Culture through Media	48
Gods, Goddesses & Superheroes	17	Great Film Music	32		
Public Speaking & Debate	17	Jazz Studies	32		
SAT Prep	17	Jazz to Rock & Roll	32		
Science Fiction	18	Music Theory: Elements of Music	32		
Sports Media	18	Music Theory I	32		
Sports Media: The Cultural Relevance	18	Music Theory II	32		
Story Telling in Film	18				
Lord of the Rings	18				



Foundational Knowledge & Skills

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BUSINESS, FINANCE, & INFORMATION TECHNOLOGY

2

Management & Administration

Administrative Services
Business Information Technology
Corporate/General Management
Human Resource Management
Operations Management

Finance

Accounting
Banking Services
Corporate Finance
Insurance
Securities & Investments

Marketing

Marketing Communications
Marketing Management
Marketing Research
Merchandising / Sales

Information Technology

Information Support & Services
Interactive Media
Network Systems
Programming & Software Engineering

Do you like to learn about Businesses, how Companies run, how to Manage Money and People?

Are Business, Math, or Computer Sciences some of your Favorite Classes?

THE FOLLOWING IS A FULL LIST OF COURSE OFFERINGS IDENTIFIED WITHIN THE BUSINESS, FINANCE, & INFORMATION TECHNOLOGY PATHWAY:

The Business of Art	10	Introduction to Communications	19	German III	47
Careers in The Arts	10	& Media Literacy		German IV	47
Accounting I	12	Conspiracy Theories	20	Spanish I	47
Accounting II	12	Research Seminar	20	Spanish II	47
Business Leadership	12	Fitness through Sport	23	Spanish III	48
Introduction to Business	12	Intro to Coaching	24	Spanish IV	48
Sports & Entertainment	12	Strength & Conditioning I	24	Spanish V	48
Business		Strength & Conditioning II	24		
Sports & Entertainment	12	Fitness through the Ages	24		
Marketing		Managing Stress through	24		
Digital Media Computer	13	Physical Fitness			
Applications		Sports Officiating	25		
Business Communications	13	Team Sports Concepts	25		
eCommerce – Advanced Web	13	Pre-Calculus w/Trigonometry	29		
Design		Honors Pre-Calculus	29		
Entrepreneurship	13	w/Trigonometry			
International Business	13	Discrete Math	29		
Business and Personal Law	13	Consumer Math	29		
Website Design	14	Statistics	29		
Accelerated English 11	16	Honors Calculus	30		
Accelerated English 12	16	AP Calculus	30		
AP English 12	17	AP Statistics	30		
Public Speaking & Debate	17	Intro to Computer Science	26		
SAT Prep	17	Computer Programming courses	26		
Sports Media	18	AP Computer Science Principles	27		
Sports Media: The Cultural	18	AP Computer Science A	27		
Relevance		AP Macroeconomics	40		
Introduction to TV Media	19	Economics	41		
TV Media	19	German I	47		
		German II	47		



Foundational Knowledge & Skills

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ENGINEERING & INDUSTRIAL TECHNOLOGY

3

Transportation, Distribution, & Logistics

Facility & Mobile Equipment Maintenance
Health, Safety, & Environmental Management
Logistics
Planning & Management Services
Sales, Service, & Transportation
Systems Infrastructure
Planning Management & Regulation
Warehousing & Distribution Center Operations

Architecture & Construction

Construction Design
Maintenance & Operations

Agriculture, Food, & Natural Resources

Animal Science
Agribusiness Systems
Environmental Service Systems
Food Products & Processing Systems
Natural Resources
Plant Science
Power, Structural, & Technical Systems

STEM

Science, Technology, Engineering, & Math

Manufacturing

Production Process Technology
Manufacturing Production
Maintenance, Installation, & Repair
Quality Assurance
Logistics & Inventory Control

Energy

Fossil Energy Production
Transmission & Distribution
Production Process Technology
Renewable Energy Production
Energy Research

Do you enjoy Working with your Hands, Building, and Fixing Things?

Would you Describe yourself as Practical and Logical?

Are you Interested in Studying Science, Drafting, Robotics, Woodworking, or Math?

THE FOLLOWING IS A FULL LIST OF COURSE OFFERINGS IDENTIFIED WITHIN THE ENGINEERING & INDUSTRIAL TECHNOLOGY PATHWAY:

Accounting I	12	Team Sports Concepts	25	Astronomy	37
Accounting II	12	Trigonometry	29	Biochemistry	37
Business Leadership	12	Pre-Calc w/Trig	29	Forensic Science	37
Intro to Business	12	Honors Pre-Calc w/Trig	29	Marine Science	37
Sports & Ent. Business	12	Discrete Math	29	Meteorology	37
Sports & Ent. Marketing	12	Consumer Math	29	Science Fact – Science Fiction	38
Digital Media Comp. Apps.	13	Statistics	29	Zoology	38
eCommerce–Adv.Web Design	13	Honors Calculus	30	Construction & Manufacturing	43
Entrepreneurship	13	AP Calculus	30	Design Application	43
International Business	13	AP Statistics	30	Wood Shop I	43
Website Design	14	Intro to Comp. Science	26	Metal Shop I	43
Accelerated English 11	16	Comp. Programming courses	26	Wood Shop II	43
Accelerated English 12	16	AP Comp. Science Principles	27	Wood Shop III	44
AP English 12	17	AP Comp. Science A	27	Woodworking Design	44
Public Speaking & Debate	17	Earth & Space Science	34	Intro to Electricity/Electronics	44
SAT Prep	17	Accelerated Earth & Space	34	Intro to Engineering Design	45
Intro. to TV Media	19	General Biology	34	Engineering	45
TV Media	19	Biology	34	CAD Concepts	45
Intro to Comm & Media Lit	19	Accelerated Biology	34	Advanced CAD	45
Conspiracy Theories	20	Environmental Science	35	CAD R&D	46
Research Seminar	20	Chemistry	35	Engineering Design	45
Culinary I	22	Accelerated Chemistry	35	German I	47
Culinary II	22	AP Biology	35	German II	47
Fitness through Sport	23	General Physics	35	German III	47
Intro to Coaching	24	Physics	36	German IV	47
Strength & Conditioning I	24	AP Physics C	36		
Strength & Conditioning II	24	Biology II	36		
Fitness through the Ages	24	Chemistry II	36		
Managing Stress t/Phys.Fitness	24	AP Chemistry	36		
Sports Officiating	25	Human Anatomy & Physiology	37		



Foundational Knowledge & Skills

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HUMAN SERVICES

4

Hospitality & Tourism

Lodging
Recreation, Amusements, & Attractions
Restaurants, Food & Beverage Services
Travel & Tourism

Law, Public Safety, Corrections & Security

Correction Services
Emergency & Fire Management Services
Law Enforcement Services
Security & Protective Services
Legal Services

Human Services

Consumer Services
Counseling & Mental Health Services
Early Childhood Development
Family & Community Services
Personal Care Services

Education & Training

Teaching & Training
Professional Support Services
Administration & Administrative Support

Government & Public Administration

Revenue & Taxation
Public Management & Administration
Foreign Service
Legal Services
Planning
Governance
Regulation

Do you Like to Help People? Do you Want to Make a Difference in your Community?
Do you Enjoy Travel & Learning about Different Cultures?

THE FOLLOWING IS A FULL LIST OF COURSE OFFERINGS IDENTIFIED WITHIN THE HUMAN SERVICES PATHWAY:

Business Leadership	12	Sports Officiating	25	AP Government	40
Introduction to Business	12	Team Sports Concepts	25	AP Macroeconomics	40
Sports & Ent. Business	12	Ultimate Physical Education	25	Government	40
Sports & Ent. Marketing	12	Aerobic Dance	25	Consumer Economics 12	40
Business Communications	13	Net Games	25	Economics	41
eCommerce—Adv.Web Design	13	Statistics	29	20 th Century Pop Culture	41
Entrepreneurship	13	AP Statistics	30	Anthropology	41
International Business	13	Earth & Space Science	34	Minorities in American History	41
Personal & Business Law	13	Accelerated Earth & Space	34	<i>Hamilton</i> , Founding Fathers &	41
Accelerated English 11	16	General Biology	34	Early Republic	
Accelerated English 12	16	Biology	34	Psychology	42
AP English 12	17	Accelerated Biology	34	Sociology	42
Creative Writing	17	Environmental Science	35	Women's Studies	42
Adv. Fiction Writing	17	Chemistry	35	WWII through Film & Lit	42
Public Speaking & Debate	17	Accelerated Chemistry	35	Global History	42
SAT Prep	17	AP Biology	35	Geography	41
Sports Media	18	General Physics	35	Intro to Engineering Design	45
Sports Media: the Cultural	18	Physics	36	Engineering	45
Relevance		AP Physics C	36	German I	47
Intro to TV Media	19	Biology II	36	German II	47
TV Media	19	Chemistry II	36	German III	47
Intro to Comm & Media Lit	19	AP Chemistry	36	German IV	47
Intro to Holocaust: Film & Lit	19	Human Anatomy & Physiology	37	Spanish I	47
Holocaust in Amer.Pop.Culture	20	Astronomy	37	Spanish II	47
Conspiracy Theories	20	Biochemistry	37	Spanish III	48
Research Seminar	20	Forensic Science	37	Spanish IV	48
Journalism	20	Marine Science	37	Spanish V	48
Independent Living	22	Meteorology	37	Passport to Travel	48
Culinary I	22	Paleontology	38	Exploring Culture through	48
Culinary II	22	Science Fact – Science Fiction	38	Media	
Healthy Eating	22	Zoology	38		
Fitness through Sport	23	American History I	39		
Intro to Coaching	24	Accelerated American History I	39		
Strength & Conditioning I	24	World History	39		
Strength & Conditioning II	24	AP World History: Modern	39		
Fitness through the Ages	24	American History II	39		
Managing Stress t/Phys.Fitness	24	AP United States History	40		



Foundational Knowledge & Skills

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SCIENCE & HEALTH

5

Health Science

Biotechnology Research & Development
Diagnostic Services
Support Services
Therapeutic Services

Environmental Studies
Research Laboratories
Animal Science
Food Science

Medicine
Dental
Optical
Medical Records

Do you Like to Learn about Living Things, Solve Problems, or Work with Cutting Edge Technology?

Are you Interested in Helping People with Health Related Concerns?

Are Biology and Chemistry some of your Favorite Classes?

THE FOLLOWING IS A FULL LIST OF COURSE OFFERINGS IDENTIFIED WITHIN THE SCIENCE & HEALTH PATHWAY:

Accelerated English 11	16	Consumer Math	29	Astronomy	37
Accelerated English 12	16	Statistics	29	Biochemistry	37
AP English 12	17	Honors Calculus	30	Forensic Science	37
Public Speaking & Debate	17	AP Calculus	30	Marine Science	37
SAT Prep	17	AP Statistics	30	Meteorology	37
Science Fiction	18	Intro to Computer Science	26	Paleontology	38
Intro to Comm & Media Lit	19	Comp. Programming courses	26	Science Fact – Science Fiction	38
Conspiracy Theories	20	AP Comp. Sci. Principles	27	Zoology	38
Research Seminar	20	AP Computer Science A	27	Psychology	42
Culinary II	22	Earth & Space Science	34	Sociology	42
Healthy Eating	22	Accelerated Earth & Space	34	Intro to Engineering Design	45
Fitness through Sport	23	General Biology	34	Engineering	45
Intro to Coaching	24	Biology	34	German I	47
Strength & Conditioning I	24	Accelerated Biology	34	German II	47
Strength & Conditioning II	24	Environmental Science	35	German III	47
Fitness through the Ages	24	Chemistry	35	German IV	47
Managing Stress t/Phys.Fitness	24	Accelerated Chemistry	35	Spanish I	47
Sports Officiating	25	AP Biology	35	Spanish II	47
Team Sports Concepts	25	General Physics	35	Spanish III	48
Ultimate Physical Education	25	Physics	36	Spanish IV	48
Net Games	25	AP Physics C	36	Spanish V	48
Trigonometry	29	Biology II	36		
Pre-Calculus w/Trigonometry	29	Chemistry II	36		
Honors Pre-Calc w/Trig	29	AP Chemistry	36		
Discrete Math	29	Human Anatomy & Physiology	37		



Foundational Knowledge & Skills

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PROGRAM OF STUDIES

ART DEPARTMENT

Art courses are designed for students with a desire to gain artistic experience. Basic knowledge of techniques and personal skills of expression, historical and cultural background, and an aesthetic awareness are included in all art courses.
Elective courses are offered when staffing and scheduling considerations allow for electives.

Intro to High School Art				
Course Number	Prerequisite	Credit	Grade Level	Course Length
853	None*	.5	9-12	1 semester
This introductory high school level course builds upon prior knowledge of basic design elements and principals. Students will learn tricks and techniques of drawing, explore color theory, art history, and art criticism in a relaxed atmosphere. With a focus on exploration, experimentation and fun, students will engage in studio production of artwork that will prepare students for the advanced electives offered at the high school level. *Highly recommended for 9 th grade students before taking other art courses at the high school.				
The Arts / Elective Credit		Career Pathway Alignment		

Art & Design				
Course Number	Prerequisite	Credit	Grade Level	Course Length
877	Teacher Recommendation*	1.0	10	1 year
This course is for tenth grade students who have an interest in art, and who consider themselves advanced or who are motivated and passionate about art. This is a yearlong art course. Students will develop foundational skills in drawing, painting, printmaking, and collage while creating 2D and 3D works of art. This course is meant to give students a strong foundation in preparation for Art Portfolio Preparation, 11 th grade students and Advanced Art Portfolio Preparation, 12 th grade students.				
The Arts / Elective Credit		Career Pathway Alignment		

Art Portfolio Preparation				
Course Number	Prerequisite	Credit	Grade Level	Course Length
850	Teacher Recommendation*	1.0	11	1 year
This course is for 11 th grade students who are serious about building an art portfolio. The course will focus on foundational skills and techniques in 2D dimensional media. Students will also discover their personal style, and preferences for art materials as they develop conceptual art. Curriculum will focus on meaning behind art utilizing a wide range of art materials. *Teacher recommendation based on successfully completing past elective art course.				
The Arts / Elective Credit		Career Pathway Alignment		

Advanced Art Portfolio Preparation				
Course Number	Prerequisite	Credit	Grade Level	Course Length
851	Teacher Recommendation*	1.0	12	1 year
This course is designed for the advanced senior art student who wants to attend art school in college, or who wants to pursue a creative career in the arts. Students will create art based on conceptual ideas, personal style, and foundational art skills. *Teacher recommendation based on successfully completing past elective art course.				
The Arts / Elective Credit		Career Pathway Alignment		

Ceramics				
Course Number	Prerequisite	Credit	Grade Level	Course Length
867	Intro to High School Art	.5	10-12	1 semester
For the serious art student only : This course challenges the artist to work mainly in clay. Beginning with basic hand building techniques and then increasing the challenges of technique along with the use of the potter's wheel, students will create dynamic, functional or sculptural pieces constructed in a studio atmosphere. <i>This course may be repeated.</i>				
The Arts / Elective Credit		Career Pathway Alignment		

Color & Painting				
Course Number	Prerequisite	Credit	Grade Level	Course Length
855	None	.5	9-12	1 semester
This course studies the use of color as it applies to painting. Projects in basic color theory, methods in painting and applications to art history will form the general outline for the course. The emphasis will be on studio projects. <i>This course may be repeated.</i>				
The Arts / Elective Credit		Career Pathway Alignment		

Drawing				
Course Number	Prerequisite	Credit	Grade Level	Course Length
857	None	.5	9-12	1 semester
For the student who wants to draw : This course further develops drawing skills through the use of a variety of drawing media. Students will explore traditional and contemporary drawing techniques and approaches in a variety of studio projects such as a still life, self-portrait, and interpretive drawings. <i>This course may be repeated.</i>				
The Arts / Elective Credit		Career Pathway Alignment		

Fantasy in Art				
Course Number	Prerequisite	Credit	Grade Level	Course Length
862	Intro to High School Art, 3D Design or Drawing	.5	9-12	1 semester
A sense of the unusual, illusion and distortion and the world of dreams inspire artists to create new worlds in their art work. The art of fantasy will be discussed in this course through the study of history and studio projects. Students will be encouraged to experiment with a variety of media to create unusual works of their own. <i>This course may be repeated.</i>				
The Arts / Humanities / Elective Credit		Career Pathway Alignment		

Sculpture				
Course Number	Prerequisite	Credit	Grade Level	Course Length
856	None	.5	10-12	1 semester
Students will explore three-dimensional form in traditional and nontraditional materials. Study form, volume, and space relationships through the exploration of decorative, utilitarian, and conceptual approaches to sculpture. Study three-dimensional works from various historical and cultural periods. (Example skills gained: problem-solving, re-purposing, creativity, reusing, building, engineering, etc.) This course may be repeated.				
The Arts / Elective Credit		Career Pathway Alignment		

Craft Design				
Course Number	Prerequisite	Credit	Grade Level	Course Length
854	None	.5	10-12	1 semester
This hands-on course gives the opportunity to develop skills in a variety of craft techniques of various cultures. Students further their aesthetic appreciation and knowledge of the diverse forms and various materials used to solve the utilitarian needs of all societies, past and present. Explore craft processes with various materials using traditional and nontraditional constructive techniques. (Example skills gained: problem-solving, creativity, weaving, crocheting, paper crafting, macrame, etc.). This course may be repeated.				
The Arts / Elective Credit		Career Pathway Alignment		

The Business of Art				
Course Number	Prerequisite	Credit	Grade Level	Course Length
868	Teacher recommendation	.5	10-12	1 semester
This course is designed to teach budding artists the steps to start and facilitate their own art business with guidance from the art and business departments. Students will be expected to create* (*materials for your business will be provided by the student at their expense) marketable pieces with the support of the art studio space and tools, establish a presence both online and in person, and learn how to file for a business EIN number plus file taxes as a sole proprietorship. This course may be repeated.				
The Arts / Elective Credit		Career Pathway Alignment		

Careers in The Arts				
Course Number	Prerequisite	Credit	Grade Level	Course Length
866	Have taken at least one Art Department course or concurrent enrollment in a year-long Art Department course	.5	10-12	1 semester
There are many available options when considering future careers in the arts. This course will cover a wide range of careers in the visual and performing arts. Students who are creative and curious about options after graduation are encouraged to take this course to explore careers in communication design (digital advertising), digital art, fine art, photography, film, theater, set design, dance, music performance/songwriting, and jewelry/product design.				
The Arts / Elective Credit		Career Pathway Alignment		

Theatrical Performance				
Course Number	Prerequisite	Credit	Grade Level	Course Length
1612	Interests in musical theater, acting, public performance, and/or technical skills such as makeup, sound, lights, and set design	.5	9-12	1 semester
A firsthand experience of performance-based theatrical activities including audition preparation such as: script memorization and blocking; performances including: acting, singing, and dancing in class; and other theatre performance topics including: directing, acting techniques, choreography, makeup, hair, and costuming. This course will identify and discuss major contributors to musical theatre. Students will be required to participate in the spring musical production in which they will apply various aspects of the course into their performance, such as: singing, acting, playing an instrument, or stage crew. This course may be repeated.				
The Arts / Elective Credit		Career Pathway Alignment		
				1

Theatrical Production				
Course Number	Prerequisite	Credit	Grade Level	Course Length
1611	Interests in musical theater, set design, set painting, and technical skills such as sound and lights	.5	9-12	1 semester
Students will get a firsthand behind the scenes look at the many facets of theatrical production including scenic design, set painting, sound, lighting, props, and stage management. This course will examine major milestones in the development of modern theatre. This is a project-based course including implementation of a performance applying all aspects of production design. This course requires the ability to move heavy stage materials. Students may get dirty on occasion. This course may be repeated.				
The Arts / Elective Credit		Career Pathway Alignment		
				1

BUSINESS EDUCATION

The Business Education Department makes an effort to help each student select his/her program according to the individual's personal and specific needs and to provide specialized training for those students who expect to seek employment in business or participate in advanced education.

Accounting I				
Course Number	Prerequisite	Credit	Grade Level	Course Length
616	None	1.0	9-12	1 year
This is an introduction to the accounting system, with an emphasis on the accounting cycle for sole proprietorships and partnerships. Learn the “why” and “how” in applying accounting principles to a variety of business records. Students are guided through both manual and automated preparation of general journals, special journals, ledgers, adjusting and closing entries, and various accounting statements. Topics also include units on banking and tax preparation. There is a Materials Fee for this course.				
Business-Technology / Elective Credit			Career Cluster Alignment	2 3

Accounting II				
Course Number	Prerequisite	Credit	Grade Level	Course Length
617	Accounting I	1.0	10-12	1 year
Explore additional insight in recording and interpreting financial data. Topics include: accounts receivable/bad debts, promissory notes, inventory systems, depreciation, notes payable, and accrued revenues and liabilities. The study of a second year of accounting helps qualify students for jobs and careers at a higher entry level. It also provides excellent background and preparation for college business and accounting courses and for those planning to major in business. There may be a Materials Fee for this course.				
Business-Technology / Elective Credit			Career Cluster Alignment	2 3

Business Leadership				
Course Number	Prerequisite	Credit	Grade Level	Course Length
676	None	.5	9-12	1 semester
This course focuses on basic business skills, professionalism, etiquette, leadership in the community, and involvement in business related organizations. Students will learn through projects and activities.				
Business-Technology / Elective Credit			Career Cluster Alignment	1 2 3 4

Introduction to Business				
Course Number	Prerequisite	Credit	Grade Level	Course Length
610	None	0.5	9-12	1 semester
This course is designed to introduce students to how businesses function in today's society and will provide a foundation for other business courses. Students are provided with the opportunity to learn and experience a variety of topics in the field of business, such as, management, marketing, finance, and business technology.				
Business-Technology / Elective Credit			Career Cluster Alignment	1 2 3 4

Sports & Entertainment Business				
Course Number	Prerequisite	Credit	Grade Level	Course Length
623	None	.5	9-12	1 semester
The Sports & Entertainment Management course helps students develop a thorough understanding of management principles of the sports and entertainment field. In this course, students will focus on the management areas of: people, finance, product, information and sales, as well as, look at legal and ethical issues as it relates to the sports and entertainment industry.				
Business-Technology / Elective Credit			Career Cluster Alignment	1 2 3 4

Sports & Entertainment Marketing				
Course Number	Prerequisite	Credit	Grade Level	Course Length
621	None	.5	9-12	1 semester
The marketing course helps students develop a thorough understanding of fundamental marketing concepts. The course also supports the business and marketing core that includes communication skills, distribution, marketing-information management, pricing, product/services management, selling, operations, strategic management and human resource management.				
Business-Technology / Elective Credit			Career Cluster Alignment	1 2 3 4

Digital Media Computer Applications				
Course Number	Prerequisite	Credit	Grade Level	Course Length
642	None	.5	9-12	1 semester
This is a Personalized Learning Course. Students will have the opportunity to explore at length various Adobe Creative Suite (Photoshop, Illustrator, Dreamweaver, and more) and Microsoft Office programs. Projects will be designed to allow students to master skills and build a portfolio. Certificates are available for students who successfully complete this course. Course can be taken multiple times to learn more programs.				
Business-Technology / Elective Credit		Career Cluster Alignment		2 3

Business Communications				
Course Number	Prerequisite	Credit	Grade Level	Course Length
619	None	0.5	9-12	1 semester
Learn the communication tools needed for success in today's rapidly changing global business environment. Topics include: exchanging information via telecommunications software, electronic mail, images and multimedia, and on-line services. Refine your writing, listening, speaking, computing and research skills for success in the workplace.				
Business-Technology / Elective Credit		Career Cluster Alignment		1 2 4

e-Commerce – Adv. Web Design				
Course Number	Prerequisite	Credit	Grade Level	Course Length
670	None	.5	9-12	1 semester
This course will teach you how to plan and market products and services online. Explore electronically linked distribution systems, international e-commerce, e-tailing, digital media design, digital marketplace design strategies, marketing management, market research, online customer behavior partnerships, and security/privacy issues.				
Business-Technology / Elective Credit		Career Cluster Alignment		1 2 3 4

Entrepreneurship – Managing a Successful Business				
Course Number	Prerequisite	Credit	Grade Level	Course Length
652	None	.5	9-12	1 semester
Ever thought of owning your own business? This course provides an opportunity for students to explore this possibility and to develop an understanding of what's necessary to manage a successful business. Gain hands on experience in running a business through simulations. This course takes part in running the School-Based enterprise, <i>The Roar Store</i> .				
Business-Technology / Elective Credit		Career Cluster Alignment		1 2 3 4

Investing For Your Future				
Course Number	Prerequisite	Credit	Grade Level	Course Length
651	None	.5	9-12	1 semester
This course explores the topics of budgeting, bank accounts, consumer loans, paying for college, types of credit, income, vesting, and personal taxes. The outcome is that students will become financially literate by understanding how to make informed decisions to balance their wants and needs.				
Business-Technology / Elective Credit		Career Cluster Alignment		✓

International Business				
Course Number	Prerequisite	Credit	Grade Level	Course Length
611	None	1.0	9-12	1 year
International Business provides the foundation for studying international business and conducting business in our global economy. Students develop the knowledge, skills, and abilities needed to live and work in a global marketplace. They will also experience the dynamic and interactive world of marketing with a focus on professional development, customer service, and technology as the keys to success.				
Business-Technology / Elective Credit		Career Cluster Alignment		1 2 3 4

Personal and Business Law				
Course Number	Prerequisite	Credit	Grade Level	Course Length
612	None	1.0	9-12	1 year
This course provides valuable information for students, helping them to understand rules used in business and personal relationships and teaching them to become responsible citizens. Students will explore areas such as ethics, criminal and civil law, consumer protection, marriage and divorce, property, real estate, employment contracts, employment discrimination and injuries, and bankruptcy.				
Business-Technology / Elective Credit		Career Cluster Alignment		2 4

Web Site Design				
Course Number	Prerequisite	Credit	Grade Level	Course Length
645	None	.5	9-12	1 semester
Web Site Design is an introductory course to the fast-growing industry of Web site design and development. The materials in this course will provide you with a solid understanding of the entire Web site development process. You will be exposed to various web site development software used to design and publish Web sites. By the end of this course, you will have gained a foundation knowledge of website creation and be able to apply it to the planning, design and development of your own portfolio website over the course of the semester.				
Business-Technology / Elective Credit			Career Cluster Alignment	1 2 3

ENGLISH DEPARTMENT

English 9				
Course Number	Prerequisite	Credit	Grade Level	Course Length
101	None	1.0	9	1 year
Students are encouraged to define and examine the areas of grammar, composition, literature, vocabulary, and speech. The literature unit, enhanced with varied authors who write in many different genres and styles, will focus on the elements of great writing. The composition unit will help students to sharpen skills by focusing on specific areas of effective writing. Students will discover how to properly enhance projects and present themselves in class demonstrations. Requirements will include responsible work habits, completing assigned work by specified due dates, and achieving set standards.				
English Credit	NCAA	Career Cluster Alignment	✓	

Accelerated English 9				
Course Number	Prerequisite	Credit	Grade Level	Course Length
100	90% average in 8 th grade high ability English or 93% or above average in 8 th grade Regular English	1.0	9	1 year
Accelerated English 9 is designed to introduce students to an advanced English pathway. Material is interpreted through an analytical approach with a necessity for student participation. This course will focus on literature in great detail including an introduction to its critical and analytical areas. Comparisons will be made of authors and literary pieces including novels, short stories, and other genre. Students will interpret and respond to various forms of poetry and prose. Special attention will be focused on creative and essay writing skills that include critical thinking skills incorporated within the informative and persuasive formats. Accelerated students are expected to perform in a responsible manner, including completing assigned work by specified deadlines and achieving required standards. Summer work may be required.				
English Credit	NCAA	Career Cluster Alignment	✓	

English 10				
Course Number	Prerequisite	Credit	Grade Level	Course Length
111	English 9	1.0	10	1 year
Writing, literature, and public speaking are integral features of the course. Drama, nonfiction, the novel, and the short story will be studied. Writing units will include reaction pieces, description, explanation, persuasion and the research paper. An emphasis is placed on effective and correct implementation of skills. Grammar studies will involve elements of sentence structure, punctuation, pronoun clarity, and phrases. Public speaking will include a mix of informal role play activities, group presentations, and formal speeches designed to inform and persuade. Supplementary materials will include novels, videos, work place skills including problem solving strategies and completing assigned work by specific due dates.				
English Credit	NCAA	Career Cluster Alignment	✓	

Accelerated English 10				
Course Number	Prerequisite	Credit	Grade Level	Course Length
110	Teacher recommendation or 90% or above average in Accelerated English or 93% or above average in Regular English 9.	1.0	10	1 year
Accelerated English 10 continues the pathway of the Accelerated English 9 course. Analytical thinking in response to the literature studied in various genres including short story, drama, the novel, and nonfiction will be a primary focus. Writing will involve critical thinking in description, explanation, persuasion, and the research paper unit. Writing skills are taught in conjunction with necessary grammar skills. Grammar studies will involve elements of sentence structure, punctuation, pronoun clarity, and phrases. Public speaking will include group presentations and formal speeches. Supplementary novels and videos will be evaluated as students complete requirements. Comparison, cause and effect, and persuasion will be the basis for much of the reading, viewing, and writing. Though the pace is reasonable, homework will play an appropriate role for an accelerated course. Summer work may be required.				
English Credit	NCAA	Career Cluster Alignment	✓	

English 11				
Course Number	Prerequisite	Credit	Grade Level	Course Length
121	English 10	1.0	11	1 year
English 11 examines various genres of American literature. Novels, plays, short stories, poetry, and nonfiction are some of the literary forms that are evaluated. An emphasis is placed on identifying and analyzing various literary devices, techniques, and meanings. Extensive writing is also included. Students will write essays and paragraph responses exploring a variety of purposes. Additionally, there is a major research paper requirement that explores proper format, steps in the process, and academic achievement. Usage, mechanics, and vocabulary are assessed through student writing with some review units covered as needed. Students will engage in individual speeches, group presentations, and personal responses. The rules of both presenting and listening will be highlighted.				
English Credit		NCAA	Career Cluster Alignment	

Accelerated English 11				
Course Number	Prerequisite	Credit	Grade Level	Course Length
120	Teacher recommendation or 90% or above average in Accelerated English or a 93% or above average in Regular English 10.	1.0	11	1 year
Accelerated English 11 constitutes the first half of the AP curriculum. The focus is primarily on American Literature. Analyzing different genres while examining content and structure provides the necessary focus to build critical thinking skills. Discussion is crucial and presentations are common. Critical analysis, research skills, formal and timed writings, and the application of AP concepts round out this course. Summer work may be required.				
English Credit		NCAA	Career Cluster Alignment	
			1 2 3 4 5	

English 12				
Course Number	Prerequisite	Credit	Grade Level	Course Length
131	English 11	1.0	12	1 year
English 12 focuses on British Literature, the authors and philosophies that contributed to it, and the historical events that governed literary progress. Students are required to complete expository, narrative, descriptive, and persuasive writing assignments.. Students will also practice research and documentation skills in a research project. Students will also continue to develop their vocabulary and critical thinking skills through intensive literary study.				
English Credit		NCAA	Career Cluster Alignment	

Accelerated English 12				
Course Number	Prerequisite	Credit	Grade Level	Course Length
1301	Teacher recommendations or 85% or above average in Accelerated English 11 or 93% or above average in Regular English 11	1.0	12	1 year
Accelerated English 12 is designed for the student who wants to be challenged by the rigors of an advanced college-preparatory curriculum and be able to comprehend complex literary pieces. The course focuses on British Literature, the authors and philosophies that contributed to it, and the historical events that governed literary progress. Students will also practice research and documentation skills through both MLA and APA style research-based writing projects. Additional independent reading and intensive written analysis of supplemental literature will be required. Summer work may be required.				
English Credit		*See Dual Enrollment Page 3*	NCAA	Career Cluster Alignment
				1 2 3 4 5

Advanced Placement English Literature & Composition 12				
Course Number	Prerequisite	Credit	Grade Level	Course Length
130	Teacher recommendation or 90% average or above in Accelerated English 11. Students must have taken the first half of the AP curriculum in Accelerated 11 to take AP 12	1.0	12	1 year
Advanced Placement English Literature & Composition 12 encompasses the second half of the Advance Placement Curriculum. Within British Literature, students will focus on an in-depth interpretation of literature and sharpening critical thinking and analytical skills. Reading, discussion, presentation, and writing are expected as students examine different genres, while analyzing content, meaning and structure, in diverse works of literature. Preparations for the AP English Language and Composition Examination (taken in May) will be included in this course. Summer work may be required.				
English Credit	*See Dual Enrollment Page 3*	NCAA	Career Cluster Alignment	1 2 3 4 5

Creative Writing				
Course Number	Prerequisite	Credit	Grade Level	Course Length
140	None	.5	9-12	1 semester
Creative writing gives students the chance to develop their own writing style. The course will offer writers the opportunity to expand their imaginations through journal entries and various forms of poetry. Students will also be exposed to writing memoir pieces, children's stories, and short stories. There will also be many opportunities to share the writing that has been created. The class concludes with the completion of a portfolio containing the inspiring pieces created throughout the semester. This class may not be repeated.				
Elective Credit	NCAA	Career Cluster Alignment	1 4	

Advanced Fiction Writing				
Course Number	Prerequisite	Credit	Grade Level	Course Length
1401	85% or higher in Creative Writing	.5	9-12	1 semester
This course provides an intensive focus on fiction as a genre. Students will learn the elements of fiction including characterization, narration, dialogue, and plot, as well as the habits necessary to grow as a writer. Students will read a wide variety of short stories alongside essays on the craft of writing in order to develop a language for talking about how fiction works. Some of the writing will include a Fairy Tale, a Film Review, a Soundtrack, and much more. Anyone who enjoys writing is sure to enjoy this course.				
Elective Credit	NCAA	Career Cluster Alignment	1 4	

Gods, Goddesses and Superheroes				
Course Number	Prerequisite	Credit	Grade Level	Course Length
155	None	.5	9-12	1 semester
Delving into all types of mythology is the name of the game for this course. Ancient mythology's gods, goddesses and heroes will be examined and connected to present day myth's superheroes and themes. Genres of literature may include film, graphic novels, novels, drama, and more. This course may not be repeated.				
Elective Credit	NCAA	Career Cluster Alignment	1	

Public Speaking and Debate				
Course Number	Prerequisite	Credit	Grade Level	Course Length
153	None	.5	9-12	1 semester
In this course the student will refine speaking techniques, establish poise and confidence, and experience frequent public speaking opportunities. The debate portion of the course includes Lincoln-Douglass and/or team cross-examination. Debate topics will vary based on student selection. Minimal out-of-class work is required. This course may be repeated.				
Elective Credit	NCAA	Career Cluster Alignment	1 2 3 4 5	

SAT Prep				
Course Number	Prerequisite	Credit	Grade Level	Course Length
146	None	.5	10-12	1 semester
The course is designed to help prepare students for the SAT test. In addition to reviewing the basic verbal and mathematical skills assessed on the SAT test, students have access to test-taking strategies specific to the exam. Math topics include Algebra I, Algebra II, Geometry, Data Analysis and Problem Solving. Context Clues, Word Parts, Essay Prompts, and Study Resources are analyzed. Students also research college entrance requirements and scholarship opportunities.				
Elective Credit		Career Cluster Alignment	1 2 3 4 5	

Science Fiction				
Course Number	Prerequisite	Credit	Grade Level	Course Length
144	None	.5	9-12	1 semester
This course will explore the history and origins of science fiction. Literary elements will be applied to both films and written works including elements of myth and legend. The “Star Wars” or “Matrix” series will be emphasized. Some out of class work will be required.				
Elective Credit		Career Cluster Alignment		1 5

Sports Media				
Course Number	Prerequisite	Credit	Grade Level	Course Length
138	None	.5	9-12	1 semester
Students will participate in reading and writing about sports and athletic competition. Students will have the freedom to focus on sports and athletes of their choosing. Activities will include research about influential athletes, reviewing internet, newspaper, and magazine articles, discussing sport-related films, reporting on local sporting events, and making various sport-related presentations to the class.				
Elective Credit		Career Cluster Alignment		1 2 4

Sports Media: The Cultural Relevance				
Course Number	Prerequisite	Credit	Grade Level	Course Length
1381	Teacher Recommendation and 90% average or above in Sports Media	.5	9-12	1 semester
Sports Media: The Cultural Relevance allows students the opportunity to dig deeper into the world of sports. Students will research information pertaining to concepts among and including the following: Sport and the Community, Olympic Competition, Gender Equality, Race, and the Economic Impact of Athletics. Students will also have the opportunity to analyze historically and culturally significant sports films.				
Elective Credit		Career Cluster Alignment		1 2 4

Storytelling in Film				
Course Number	Prerequisite	Credit	Grade Level	Course Length
141	None	.5	9-12	1 semester
This course offers a theoretical (rather than practical) introduction to the basic elements of film by observing representative examples from both contemporary and historical films. Units will consist of the following topics (as time allows): Basic film Structure, Narrative Structure, Editing, Mise-en-Scene, Cinematography, Sound Design, Artistic Movements, and Interpretive Theories. This class will consider cinematic conventions for each of these topics and analyze their manifestations in corresponding films. A major exam concludes each unit. Note taking and class discussion are expected.				
Elective Credit		Career Cluster Alignment		1

Lord of the Rings				
Course Number	Prerequisite	Credit	Grade Level	Course Length
157	None	.5	9-12	1 semester
This course offers a comprehensive study of Tolkien’s masterpiece <u>The Lord of the Rings</u> with additional insight into his fantasy realm by investigating <u>The Hobbit</u> , <u>The Silmarillion</u> , Tolkien’s musical poetry, and other ancillary texts. The class will compare Peter Jackson’s and Guillermo del Toro’s film adaptations with excerpts from the three constituent novels. Class discussions will include the symbolism of the novel, its role in the rise of modern fantasy literature, the mythological ramifications of the work, and the cultural context in which the narrative is situated.				
Elective Credit		Career Cluster Alignment		1

COMMUNICATIONS / MEDIA

Introduction to TV Media				
Course Number	Prerequisite	Credit	Grade Level	Course Length
171	None	.5	9-12	1 semester
This semester long course will give students a “hands on” introduction to the exciting world of television and film production. Using cameras, editing software, and audio equipment students will participate in lectures, film screenings, group projects and discussions to acquire the basic fundamentals that are needed to function in a media dominated culture. This course is the prerequisite to TV Media and is strongly encouraged for students interested in studying communications at the collegiate level or students planning on entering the communications field after high school. <i>*Please note: Final projects for this course will require work to be done outside of class and, in some cases, the normal school day.</i>				
The Arts / Elective Credit		Career Cluster Alignment		1 2 3 4

TV Media				
Course Number	Prerequisite	Credit	Grade Level	Course Length
172	Introduction to TV Media	1.0	10-12	1 year
TV Media is a year-long project based course that takes a more in-depth look at television news production and filmmaking process. Using the skills acquired in Introduction to TV Media students will be responsible for producing segments for the high schools Tiger TV News show. Students will be responsible for covering and reporting on school events, such as sporting events, band competitions, field trips, club and classroom events, etc. <i>occurring outside of the normal school day.</i> Students who are planning on studying communications at the collegiate level or who are planning on entering the communications field after high school are strongly urged to take this course. (This course may be repeated.)				
The Arts / Elective Credit		Career Cluster Alignment		1 2 3 4

Introduction to Communications & Media Literacy				
Course Number	Prerequisite	Credit	Grade Level	Course Length
159	None	.5	9-12	1 semester
This course is designed to help students develop an informed and critical understanding of the nature of our ever expanding and increasingly dominating mass media culture—as information sources, as entertainment, and as a commercialized industry. Students will become more media literate by examining, interpreting, and evaluating the messages contained within, and take a critical look at their social, cultural and political implications.				
The Arts / Elective Credit		Career Cluster Alignment		1 2 3 4 5

Documentary Filmmaking				
Course Number	Prerequisite	Credit	Grade Level	Course Length
168	Introduction to TV Media	.5	10-12	1 semester
In this semester long course students will study the documentary film genre. This course is designed to familiarize students with the history, theory, criticism, and practice of documentary filmmaking. Students will develop critical viewing skills as they screen contemporary documentary films and participate in in-class discussions.				
The Arts / Elective Credit		Career Cluster Alignment		1

Film History				
Course Number	Prerequisite	Credit	Grade Level	Course Length
167	None	.5	9-12	1 semester
This semester long course will take an in-depth look at the history of the American film industry, beginning in the 1800's with the technological discovery of the medium and celluloid film, through the addition of sound, to the special effects used in the present day blockbuster and current digital revolution. Classic films having a profound impact on the film industry, will be viewed and discussed.				
Humanities / Elective Credit		Career Cluster Alignment		1

Introduction to the Holocaust through Film and Literature				
Course Number	Prerequisite	Credit	Grade Level	Course Length
239	None	.5	10-12	1 semester
This course will take an in-depth look at the Holocaust from events prior to, leading up to, throughout, and after the Holocaust. Using period and contemporary film and literature pieces, students will gain a background knowledge of various events relating to the Holocaust that they may never have heard of before. Classes will consist of lectures, in-class written work, journaling, film viewing, literature reading, film discussions, literature discussions, and more. This course is strongly recommended for students interested in studying history at the collegiate level.				
Humanities / Elective Credit		Career Cluster Alignment		1 4

The Holocaust in American Popular Culture				
Course Number	Prerequisite	Credit	Grade Level	Course Length
169	Introduction to the Holocaust through Film and Literature	.5	10-12	1 semester
In this semester long course students will take a more in-depth look at the Holocaust and how these events are shaped by American popular culture. Using comic books, graphic novels, popular TV shows (<i>South Park</i> , <i>Family Guy</i> , <i>Glee</i> , etc.), movies (<i>Schindler's List</i> , <i>The Boy In The Striped Pajamas</i> , <i>Inglourious Basterds</i> , etc.), and Holocaust "Art", students will analyze how these things have shaped the perception and discourse of the Holocaust in American popular culture. Students who have not taken <i>Introduction to the Holocaust Through Film and Literature</i> will not be admitted.				
Humanities / Elective Credit		Career Cluster Alignment		1 4

Conspiracy Theories				
Course Number	Prerequisite	Credit	Grade Level	Course Length
170	None	.5	9-12	1 semester
This semester-long course will take a critical look at the role played by conspiracy theories in shaping modern American culture. We will take a critical look at the psychology of conspiracism; we'll analyze the conspiracy theories behind the JFK assassination and other presidential assassinations, 9/11, the Sandy Hook school shooting, Roswell, Area 51, the Oklahoma City bombing, the moon landing, the death of Princess Diana and other celebrities, and the existence of aliens, ghosts, Bigfoot, the Illuminati and Free Masons. Lastly, we'll discuss the role and dangers that a lack of skepticism plays with an unchecked belief in conspiracy theories.				
The Arts / Elective Credit		Career Cluster Alignment		1 2 3 4 5

Research Seminar				
Course Number	Prerequisite	Credit	Grade Level	Course Length
173	Teacher Recommendation	.5	10-12	1 semester
Research Seminar is a semester-long inquiry-based intense research course designed to engage students collaboratively and individually in research that will allow students an opportunity to continue their exploration of individually chosen conspiracy theories. In this course students will "take a deep dive" into a conspiracy theory/research topic of their choosing and learn how to access, analyze, evaluate, and synthesize information to effectively create and present an evidence-based argument. *This course is modeled after AP Seminar and AP Research. Students interested in taking this course should possess strong communication and writing skills, and have the ability to work both independently and collaboratively to accomplish the established learning outcomes of the course.				
Elective Credit		Career Cluster Alignment		1 2 3 4 5

Charlie Chaplin – His Life and Films				
Course Number	Prerequisite	Credit	Grade Level	Course Length
154	Film History	.5	9-12	1 semester
This semester long course will explore the life of Charlie Chaplin through his films and various pieces of literature written by him and about him. Charlie Chaplin was a filmmaking pioneer, director, producer, writer, composer, and actor. Considered by many to be the first movie star, this class will take an in depth look at Chaplin's life through some of his more popular short films and features, such as <i>The Circus</i> , <i>The Gold Rush</i> , <i>Modern Times</i> , <i>City Lights</i> , and more.				
The Arts / Elective Credit		Career Cluster Alignment		1

Journalism				
Course Number	Prerequisite	Credit	Grade Level	Course Length
150	88% in High School English Courses	1.0	10-12	1 year
This course offers an introduction to Journalism and how the reporting media functions and fails to function the twenty-first century. Course topics will include, but not be limited to, proper writing techniques, journalistic ethics, plagiarism, sensationalism, advertisements, subjectivity v. objectivity, formatting, and photojournalism. Students will also investigate extant examples of journalism via newspapers and magazines to uncover the elements of effective reporting. Emphasis will be placed on the function of journalistic integrity within a democratic society. In addition to the above instruction, students will be expected to assume an active role in the school newspaper, which includes writing, editing, formatting, and photographing for periodic publication.				
Humanities / Elective Credit		NCAA	Career Cluster Alignment	
				1 4

Yearbook				
Course Number	Prerequisite	Credit	Grade Level	Course Length
886	85% or better in English Courses & a Written Recommendation with officer application.	1.0	11 – 12	1 year (Fall and Spring)
<p>The Tiger Tale yearbook is a student run publication for the entire high school. Students will design, interview, photograph, and write stories. Students will also learn the basics of the computer publishing program along with page layout techniques, and editing. Grades are based on participation, effort, and quality of work completed. <i>Roughly 50% of the grade is participation outside of the classroom. Students must be available to cover school events – Evenings & Weekends. It is strongly advised that students have a DSLR camera or have taken a Photography course prior to enrolling.</i> Students are strongly encouraged to enroll in both semesters for the full experience of the course and the completion of the book.</p>				
Elective Credit		Career Cluster Alignment		
				1

News Magazine				
Course Number	Prerequisite	Credit	Grade Level	Course Length
888	85% or better in English Courses & a Written Recommendation with officer application.	1.0	10 – 12	1 year (Fall and Spring)
<p>This photo-journalistic magazine will be a student run media outlet source for the entire FASD. Students will design, interview, photograph, and write about the current happenings in our school district community for both online sources and quarterly print magazines. Students will also learn the basics of the computer publishing program along with page layout techniques, and editing. Grades are based on participation, effort, and quality of work completed. Students interested in newspaper, yearbook, artifact, sports and creative writing, photography, and graphic design are encouraged to join this staff! Students are strongly encouraged to enroll in both semesters for the full experience of the course and the completion of the volume.</p>				
Elective Credit		Career Cluster Alignment		
				1

FAMILY & CONSUMER SCIENCE

Independent Living				
Course Number	Prerequisite	Credit	Grade Level	Course Length
701	None	.5	11-12	1 semester
Independent Living is a preparatory course to living on your own. What do you need to know to survive on your own after high school? This comprehensive look at many Family and Consumer Science topics such as consumer decisions, financial literacy, and career readiness will get you ready to be out on your own after high school. Through the course, students will develop skills in sound decision making, workplace readiness, budgeting, hand sewing, home appliance operations, as well as, interpersonal relationship skills.				
Humanities / Elective Credit		Career Cluster Alignment		
				4

Culinary I				
Course Number	Prerequisite	Credit	Grade Level	Course Length
7021	None	.5	9-12	1 semester
This enjoyable and practical F.C.S. elective offers students a hands-on approach to learning about kitchen procedures, safety and sanitation guidelines, different foods, as well as, various preparation techniques. Culinary I provides the content and skills necessary for students to be able to plan, shop, and efficiently, prepare good-tasting, nutritious food. Reading and understanding the language of a recipe is studied and practiced. Also, students will engage in meal planning and preparation. Lastly, foods for celebrations are all examined. There is a fee associated with this course.				
Humanities / Elective Credit		Career Cluster Alignment		
				3
				4

Culinary II				
Course Number	Prerequisite	Credit	Grade Level	Course Length
7022	Culinary I	.5	10-12	1 semester
In this insightful course, students will learn about the different career options in the culinary industry. It provides a basic overview of the culinary profession; including: culinary, foodservice management, the dining experience, standards, regulations, laws, health regulations, and cost control techniques, just to name a few. During this semester long course, we will take an in-depth look into the world of the culinary professional and dissect each area to prepare students for that next level of education or for an exciting career as a foodservice professional. There is a fee associated with this course.				
Humanities / Elective Credit		Career Cluster Alignment		
				3
				4
				5

Healthy Eating				
Course Number	Prerequisite	Credit	Grade Level	Course Length
709	Culinary I	.5	10-12	1 semester
In this course, students will learn about the role of nutrition in improving health and applying these ideas to developing a healthy eating pattern. They will value how food choices and physical activity contribute to overall well-being. Through this process we will look closely at how eating simple, nutritious meals will make you feel healthier and more alive. There is a fee associated with this course.				
Humanities / Elective Credit		Career Cluster Alignment		
				4
				5

PHYSICAL EDUCATION / HEALTH

Health				
Course Number	Prerequisite	Credit	Grade Level	Course Length
739	None	.5	9	1 semester
While learning about health literacy, students will apply skills to lead to better decision making in relation to their health and wellness. Major topics to be discussed include Foundations of Health, Skin Cancer, Heart Disease, Nutrition, Reproductive Health, Suicide Prevention and Awareness, Stress Management, and Substance Abuse. Current health topics will be discussed throughout the course.				
Health Credit		Career Cluster Alignment		



PE-9				
Course Number	Prerequisite	Credit	Grade Level	Course Length
721	None	.5	9	1 semester
Through strategic leadership, fitness, and performance evaluation students will be provided with knowledge and be encouraged to develop skills and techniques that will enable them to be active and lead a healthy life now and throughout their lifetime. Grades will be based on, but not limited to class participation, attitude, activity performance, and unit assessments. Enthusiastic participation is paramount.				
PE Credit		Career Cluster Alignment		



Sports & Fitness				
Course Number	Prerequisite	Credit	Grade Level	Course Length
7668	PE-9	.5	10	1 semester
If you like working out, enjoy fitness, and participating in games, this is the course for you. In this course students will be focusing on fitness through a variety of activities and gaining exposure and experience to fitness trends. Part of this course will focus on weight training and building on the fundamentals learned in 9th grade PE, as well as activities and learning about the role activities have on your fitness and health. Although students may choose a course of interest (that qualifies for PE credit), this course will prepare students for the following 11th grade courses: Strength and Conditioning 1 and Fitness Through Sport.				
PE Credit		Career Cluster Alignment		



Sports Roles				
Course Number	Prerequisite	Credit	Grade Level	Course Length
7667	PE-9	.5	10	1 semester
In this course students will be introduced to the different roles they may have while being involved in athletic competitions. We will be building on the skills learned in 9 PE to be a productive citizen. Game management skills will be focused and built upon, emphasis on leadership, and being a positive role model evaluating different roles in sports through activity. Although students may choose a course of interest (that qualifies for PE credit), this course will prepare students for the following 11th grade courses: Sports Officiating, Intro to Coaching, Team Sports Concepts.				
PE Credit		Career Cluster Alignment		



Fitness and the Mind				
Course Number	Prerequisite	Credit	Grade Level	Course Length
7669	PE-9	.5	10	1 semester
This course is designed for the non-competitive student to learn how to be physically active as well as to help manage their stress. Through a variety of activities students will learn ways to be flexible and creative while being active and keep moving. The focus will be on how activity can impact your overall health and wellness throughout your life. Although students may choose a course of interest (that qualifies for PE credit), this course will prepare students for the following 11th grade courses: Fitness through Ages, Managing Stress through Physical Activity.				
PE Credit		Career Cluster Alignment		



Fitness Through Sport				
Course Number	Prerequisite	Credit	Grade Level	Course Length
7660	PE-10	.5	11-12	1 semester
Fitness Through Sports will educate students about the health and skill related components of fitness and training methods needed to create a personalized fitness plan in order to maintain an active and healthy lifestyle. This class will allow students to participate in different activities and games while focusing on the skill and health components of fitness. Classes will be energetic, competitive and fun while learning about different strategies to improve overall performance. Students will also have the opportunity to create a personalized fitness program based on the knowledge they have learned and have applied while taking this class that suits each student's individual needs.				
PE/Elective Credit		Career Cluster Alignment		



Intro to Coaching				
Course Number	Prerequisite	Credit	Grade Level	Course Length
7661	PE-10	.5	11-12	1 semester
Intro to Coaching will focus on the various responsibilities of a coach and the skills needed to successfully fill this important position. Throughout the course, students will explore various coaching models and leadership styles, as well as safety, conditioning, and cross-training. Students will learn effective communication, problem-solving, and decision making skills. The course will also introduce students to game strategy, tactical strategy, skills-based training, and coaching ethics. Students will learn how film study can be used to strategize, organize, and prepare teams for competition.				
PE/Elective Credit		Career Cluster Alignment		1 2 3 4 5

Strength & Condition I: Training Principles				
Course Number	Prerequisite	Credit	Grade Level	Course Length
7750	PE-10	.5	11-12	1 semester
In this course, students will develop an understanding of the physiology of the body and muscles and how that corresponds to maximizing the benefits of working out. Students will be exposed to many philosophies and principles of weight training so that they can create an individualized fitness plan. Students will have the opportunity to execute their fitness plan and evaluate their goals, progress, and fitness plan throughout the course.				
PE/Elective Credit		Career Cluster Alignment		1 2 3 4 5

Strength & Conditioning II: Personal Training				
Course Number	Prerequisite	Credit	Grade Level	Course Length
7751	PE-10 and Strength & Conditioning I	.5	11-12	1 semester
In this course, students will learn the impact and correlation nutrition has to performance and fitness goals. Students will examine the role and responsibilities of a personal trainer, learn the steps to becoming a personal trainer, assess fitness levels, and design safe and effective workouts. Concepts of communication and motivation will be discussed, as well as exercise modifications and adaptations for special populations. Students will also examine certification requirements, business and marketing procedures, and concerns about liability and ethics. In addition, throughout the course students will be able to explore various exercises, equipment, and tools that can be used for successful personal training.				
Elective Credit		Career Cluster Alignment		1 2 3 4 5

Fitness through the Ages				
Course Number	Prerequisite	Credit	Grade Level	Course Length
7662	PE-10	.5	11-12	1 semester
This course is designed for students to have fun while achieving a greater understanding of health and wellness for all ages, explore various leadership skills, as well as educate others on the importance of being physically active during their lifetime. In addition, this course will combine classroom and activity time so that students can <i>actively</i> engage in designing and implementing a fitness activity/program to share with others. In addition, students will investigate careers to gather information or skills that can be applied to future college and career resumes.				
PE/Elective Credit		Career Cluster Alignment		1 2 3 4 5

Managing Stress through Physical Fitness				
Course Number	Prerequisite	Credit	Grade Level	Course Length
7663	PE-10	.5	11-12	1 semester
Stress is everywhere in your life and studies have proven a great way to manage stress is with physical activity. In this course, students will learn about stress, factors that cause stress, and learn various ways to manage stress. The goal is for students to learn how to live a healthy lifestyle to better handle situations in order to assist in attaining personal goals. In this course, students will analyze individual stress factors, then create and implement a wellness plan that offers ways to best handle stress.				
PE/Elective Credit		Career Cluster Alignment		1 2 3 4 5

Sports Officiating				
Course Number	Prerequisite	Credit	Grade Level	Course Length
7664	PE-10	.5	11-12	1 semester
Sports Officiating is a course designed to provide students with the training, knowledge, and practical experiences required as a sports official. It challenges you athletically and requires cool and decisive thinking. Students will be expected to participate in game play as well as officiate their peers. Upon completion of this course, students will be afforded the option of taking certification exams to become registered PIAA and/or youth sports officials. As a sports official, you are making a difference in the lives of student-athletes, encouraging exercise through competition, and establishing lifelong fundamentals of fairness.				
PE/Elective Credit		Career Cluster Alignment		1 2 3 4 5

Team Sports Concepts				
Course Number	Prerequisite	Credit	Grade Level	Course Length
7665	PE-10	.5	11-12	1 semester
Students will learn about a variety of team sport concepts through game play, group instruction, and video. Students will learn not only the history, rules, and guidelines of each sport, but also perform specific skills and strategies / tactics related to each sport. In addition, students will learn the benefits of team sports which will include the elements of fitness, goal setting, teamwork, and sportsmanship.				
PE/Elective Credit		Career Cluster Alignment		1 2 3 4 5

Ultimate Physical Education				
Course Number	Prerequisite	Credit	Grade Level	Course Length
780	85% or higher in all P.E. classes or Teacher Recommendation	.5	10-12	1 semester
This course is designed for the highly motivated student looking for more competitive exercise and competition. Instruction will focus on rule interpretations, officiating, and higher level skill concepts/game play. Students will be expected to participate competitively on a daily basis. Conditioning will also be a primary component of the class.				
Elective Credit		Career Cluster Alignment		4 5

Aerobic Dance				
Course Number	Prerequisite	Credit	Grade Level	Course Length
779	85% or higher in all P.E. classes or Teacher Recommendation	.5	10-12	1 semester
This course will offer variety of modern and traditional dances that can be enjoyed at any age along with aerobic activities that can enhance an individual's physical fitness level. Individuals will experience different avenues of fitness/exercise to prolong lifelong fitness.				
Elective Credit		Career Cluster Alignment		1 4

Net Games				
Course Number	Prerequisite	Credit	Grade Level	Course Length
769	85% or higher in all P.E. classes or Teacher Recommendation	.5	10-12	1 semester
This course will offer numerous net games activities that can be played at varying competitive levels. It will involve competition between two teams using a net. Individuals will experience different activities to enhance lifelong fitness. Course activities include, but are not limited to: tennis, badminton, pickle ball, eclipse ball, Nitro Ball, ping pong, soccer volleyball, and volleyball.				
Elective Credit		Career Cluster Alignment		4 5

COMPUTER SCIENCE

Introduction to Computer Science				
Course Number	Prerequisite	Credit	Grade Level	Course Length
3512	Algebra I	.5	9-12	1 semester
This course is an introduction to computer science using the CMU CS Academy and/or Computer Science Discoveries by Code.org. By using a graphical design model, students will be introduced to the world of computer science through a fun and engaging computational problem-solving approach. After completing Introduction to Computer Programming, students can go on to learn other individual programming languages that build on concepts learned in this class but are tailored to specific computer science areas. These areas include, but are not limited to, app development, video game design, and cybersecurity.				
Elective / Math / Technology Credit		Career Cluster Alignment		1 2 3 5

Computer Programming: Python				
Course Number	Prerequisite	Credit	Grade Level	Course Length
3513	Introduction to Computer Science	.5	9-12	1 semester
This course is a journey into the programming language Python and it builds upon foundations established in Intro to Computer Science. Python is a scripting language that is often used for creating Web applications and dynamic Web content. Python is also supported by many 2D and 3D imaging programs.				
Elective / Math / Technology Credit		Career Cluster Alignment		1 2 3 5

Computer Programming: C++				
Course Number	Prerequisite	Credit	Grade Level	Course Length
3514	Introduction to Computer Science	0.5	9-12	1 semester
This course is a journey into the programming language C++ and it builds upon foundations established in Intro to Computer Programming. C++ is a general purpose, object oriented language that is built around the concepts of abstraction, inheritance, encapsulation, and polymorphism. C++ is highly portable and is often the language of choice for multi-device, multi-platform app development.				
Elective / Math / Technology Credit		Career Cluster Alignment		1 2 3 5

Computer Programming: Java				
Course Number	Prerequisite	Credit	Grade Level	Course Length
3515	Introduction to Computer Science	0.5	9-12	1 semester
This course is a journey into the programming language Java and it builds upon the foundations established in Intro to Computer Science. Java is a general-purpose, object-oriented language that is designed to run on various devices with few dependencies. Java is the current language of the Computer Science A AP Exam and is the closest match to the pseudocode used in certification exams such as the Praxis exam.				
Elective / Math / Technology Credit		Career Cluster Alignment		2 3 5

Computer Programming: HTML/CSS				
Course Number	Prerequisite	Credit	Grade Level	Course Length
3517	Introduction to Computer Science	.5	9-12	1 semester
This course is a journey into the programming languages of HTML and CSS, and it builds upon the foundations established in Intro to Computer Science. HTML and CSS go hand in hand in the development of websites and web applications.				
Elective / Math / Technology Credit		Career Cluster Alignment		1 2 3 5

Computer Programming: JavaScript				
Course Number	Prerequisite	Credit	Grade Level	Course Length
3520	Introduction to Computer Science	0.5	9-12	1 semester
This course is a journey into the programming language JavaScript and it builds upon foundations established in Intro to Computer Programming. JavaScript is a scripting or programming language that allows you to implement complex features on webpages. This course will be run on CodeHS and will use game design as its platform.				
Elective / Math / Technology Credit		Career Cluster Alignment		2 3 5

Advanced Computer Programming: Independent Study				
Course Number	Prerequisite	Credit	Grade Level	Course Length
3519	Introduction to Computer Science, at least (1) course of Computer Programming, or Teacher Recommendation	.5	9-12	1 semester
This course is designed to be an extension or exploration into any of the other programming languages that have been offered. Concepts that can be studied include, but are not limited to, app development, game development, database programming, development with Raspberry Pi, development with Arduino, and programming with Sphero.				
Elective / Math / Technology Credit		Career Cluster Alignment		2 3 5

AP Computer Science Principles				
Course Number	Prerequisite	Credit	Grade Level	Course Length
3521	Algebra I and Introduction to Computer Science, or Teacher Recommendation	1.0	10-12	1 year
This is an AP course with a broad look into Computer Science and will follow the AP Computer Science Principles Framework. Topics that will be covered include, but are not limited to, Digital Information, The Internet, Programming, Data Analysis, Cybersecurity, Apps, Digital Forensics, and Communications. The use of Performance Tasks and Online Tools will be a large part of this course. The taking of the AP Exam is strongly encouraged.				
Elective / Math / Technology Credit		NCAA	Career Cluster Alignment	
				2 3 5

AP Computer Science A				
Course Number	Prerequisite	Credit	Grade Level	Course Length
3518	Algebra I and Introduction to Computer Science, or Teacher Recommendation	1.0	10-12	1 year
This is an AP course that delves into the concepts and tools of Computer Science through the platform of Java Programming Language. Topics that will be covered include, but are not limited to, Primitive Types, Using Objects, Boolean Expressions, If Statements, Iteration, Classes, Arrays, Lists, Inheritance, and Recursion. The taking of the AP Exam is strongly encouraged.				
Elective / Math / Technology Credit		NCAA	Career Cluster Alignment	
				2 3 5

MATHEMATICS DEPARTMENT

Students must complete 3 courses (credits) of Math Credit while in High School.

Pre-Algebra				
Course Number	Prerequisite	Credit	Grade Level	Course Length
302	None	1.0	9	1 year
The following topics will be taught: real numbers and exponents, expressions and equations, functions, geometry, and statistics.				
Math Credit		NCAA	Career Cluster Alignment	✓

Algebra I (Student will earn High School Elective Credit for Algebra I taken at the Middle School – this will not be calculated in GPA)				
Course Number	Prerequisite	Credit	Grade Level	Course Length
301	Pre-Algebra	1.0	9 & 10	1 year
The areas covered are polynomials and algebraic functions; solving linear and quadratic equations with applications, graphing linear equations; powers, roots and radicals.				
Math Credit		NCAA	Career Cluster Alignment	✓

Algebra II				
Course Number	Prerequisite	Credit	Grade Level	Course Length
321	Algebra I	1.0	9 & 10	1 year
This course starts with a review of Algebra I. Subsequent topics include negative exponents, rational and irrational expressions, quadratic equations, functions and relations.				
Math Credit		NCAA	Career Cluster Alignment	✓

Honors Algebra II				
Course Number	Prerequisite	Credit	Grade Level	Course Length
320	95% in Algebra I and/or teacher recommendation	1.0	9	1 year
A brief review of Algebra I is followed by a study of irrational and complex numbers, quadratic equations and functions, variation, polynomial equation, analytic geometry, exponential and logarithmic functions, sequences and series, statistics and probability, matrices and determinants.				
Math Credit		NCAA	Career Cluster Alignment	✓

Geometry				
Course Number	Prerequisite	Credit	Grade Level	Course Length
311	Algebra II or teacher recommendation	1.0	11	1 year
Examines the properties of plane and solid geometric figures such as points, triangles, trapezoids, circles and pyramids. The nature of logic and proofs is discussed. Also, the basic coordinate geometry is discussed as well as area and volume of many of the geometric figure				
Math Credit		NCAA	Career Cluster Alignment	✓

Honors Geometry				
Course Number	Prerequisite	Credit	Grade Level	Course Length
310	80% in Honors Algebra II and/or teacher recommendation 95% in Algebra II and/or teacher recommendation	1.0	10	1 year
Examines the properties of plane and solid geometric figures such as points, triangles, trapezoids, circles and pyramids. The nature of logic and proofs is emphasized, especially with respect to congruent and similar figures. Also, basic coordinate geometry is discussed as well as area and volume of the many geometric figures.				
Math Credit		NCAA	Career Cluster Alignment	✓

Trigonometry				
Course Number	Prerequisite	Credit	Grade Level	Course Length
331	70% in Algebra II and Geometry	1.0	11-12	1 year
This course will cover trig functions and their graphs, solutions of triangles, identities, polar coordinates and vectors. It will also continue with advanced topics in algebra such as exponential and logarithmic functions, and sequences and series. This course is designed for those who are not planning on pursuing Calculus in high school.				
Math / Elective Credit		NCAA	Career Cluster Alignment	3 5

Pre-Calculus with Trigonometry				
Course Number	Prerequisite	Credit	Grade Level	Course Length
3290	80% in Algebra II and Geometry	1.0	11-12	1 year
This course continues work with polynomial, rational, exponential, and logarithmic functions. It also includes extensive work with the trig functions, solutions to triangles, identities, vectors and polar coordinates. Graphing calculator is required for this course.				
Math / Elective Credit		NCAA	Career Cluster Alignment	2 3 5

Honors Pre-Calculus with Trigonometry				
Course Number	Prerequisite	Credit	Grade Level	Course Length
3291	80% in both Honors Algebra II and Honors Geometry or 95% in Algebra II and Geometry and/or teacher recommendation	1.0	11-12	1 year
This course continues work with polynomial, rational, exponential, and logarithmic functions. It also includes extensive work with the trig functions, solutions to triangles, identities, vectors and polar coordinates. This course is designed for those moving on to Honors or AP Calculus. Graphing calculator is required for this course.				
Math / Elective Credit		*See Dual Enrollment Page 3*	NCAA	Career Cluster Alignment
				2 3 5

Discrete Math (formerly <i>Selected Topics in Math</i>)				
Course Number	Prerequisite	Credit	Grade Level	Course Length
323	Successful completion of Algebra I, Algebra II, and Geometry	.5	11-12	1 semester
This class will explore areas of math not usually covered in a typical math class, such as those used in Computer Science. We will cover topics such as graph theory, set theory, cryptography, logic, and problem solving. This class is designed to branch out into the everyday uses of math.				
Math / Elective Credit		Career Cluster Alignment		2 3 5

Consumer Math				
Course Number	Prerequisite	Credit	Grade Level	Course Length
324	Completed Algebra I, Algebra II, and Geometry	.5	12	1 semester
Students will work with a variety of concepts ranging from, but not limited to, Sales Tax, Income Tax, Personal Bank Accounts, Simple and Compound Interest, Stocks, Bonds, Annuities, Installment Loans, Credit Cards, and the Cost of Home Ownership. This course will involve many real-world math scenarios and personal finance situations.				
Math / Elective Credit		Career Cluster Alignment		2 3 5

Statistics				
Course Number	Prerequisite	Credit	Grade Level	Course Length
334	Completed Algebra I, Algebra II and Geometry or teacher recommendation	1.0	11-12	1 year
Students will develop an understanding of statistical concepts by analyzing real data. Topics studied include data collection, drawing conclusions, summarizing data, normal distributions, and inference from data. Technology will be used heavily in the course. Graphing calculator is required for this course.				
Math / Elective Credit		NCAA	Career Cluster Alignment	1 2 3 4 5

AP Statistics				
Course Number	Prerequisite	Credit	Grade Level	Course Length
336	80% in Honors Algebra II or 90% in Algebra II or Teacher Recommendation	1.0	11-12	1 year
Students will develop an understanding of statistical concepts by analyzing real data. Topics studied include one-variable data, two-variable data, collecting data, probability, random variables, probability distributions, sampling distributions, inference, proportions, means, chi-square, slopes, and ANOVA. Technology will be used heavily in this course. Students are encouraged to take the AP Statistics Exam. <i>Ti-83/Ti-84 Graphing calculator is required for this course.</i>				
Math / Elective Credit	*See Dual Enrollment Page 3*	NCAA	Career Cluster Alignment	1 2 3 4 5

Honors Calculus				
Course Number	Prerequisite	Credit	Grade Level	Course Length
341	80% in Honors Pre-Calculus or 90% in Pre-Calculus	1.0	12	1 year
A study of limits and introduction to differential and integral calculus with applications. The students will be introduced to concepts which are dealt with in college Calculus I and II. <i>Graphing calculator is required for this course.</i>				
Math / Elective Credit	*See Dual Enrollment Page 3*	NCAA	Career Cluster Alignment	2 3 5

AP Calculus (Level AB)				
Course Number	Prerequisite	Credit	Grade Level	Course Length
340	90% in Honors Pre-Calculus or 95% in Pre-Calculus	1.0	12	1 year
A study of limits and introduction to differential and integral calculus with applications. The students will be introduced to concepts which are dealt with in college Calculus I and II. Students are expected to take the AP Level AB Exam. <i>Graphing calculator is required for this course.</i>				
Math / Elective Credit	*See Dual Enrollment Page 3*	NCAA	Career Cluster Alignment	2 3 5

MUSIC DEPARTMENT

Students with special interests or talents in music are encouraged to enroll in music courses: instrumental, vocal and theory. Students enrolled in classes which have performing groups are required to attend all rehearsals and school programs/concerts.

Band				
Course Number	Prerequisite	Credit	Grade Level	Course Length
811	None	1.0	9-12	1 year
<p>Students learn a wide variety of music to be performed at the Winter and Spring Concerts as well as the annual Pasta and Presto Dinner. Students may also participate in the Marching Band (which performs at Football games and Parades), Jazz Band, Pep Band and Pit Orchestra for the musical as well as numerous chamber ensembles. The band participates in the Music Department Trip and for various school and community functions. A select group called the Wind Ensemble is chosen through audition. This group also rehearses during the band time, but the lunch schedule is adjusted.</p> <p>The schedule for band, chorus and orchestra rotates in such a way to allow student participation in 1, 2, or all 3 performance-based classes.</p>				
The Arts / Elective Credit		Career Cluster Alignment		
				1

Chorus				
Course Number	Prerequisite	Credit	Grade Level	Course Length
813	Determined by Audition	1.0	9-12	1 year
<p>Students learn a wide variety of music to be performed at the Winter and Spring Concerts as well as the annual Pasta and Presto Dinner. Students learn and rehearse for performances and are encouraged to audition for County and/or District Chorus festivals. The Chorus also participates in the Music Department Trip. Students do have the opportunity to participate in small, auditioned choirs, such as Choraliers, Women's Chorus (for female singers), and/or Men's Chorus (for male singers). A larger, select group called the Vocal Ensemble will be chosen by audition. This choir also rehearses during the chorus time, but the lunch schedule is adjusted. All students will go through an audition process to determine if they will be singing with Vocal Ensemble or Chorale.</p> <p>The schedule for band, chorus and orchestra rotates in such a way to allow student participation in 1, 2, or all 3 performance-based classes.</p>				
The Arts / Elective Credit		Career Cluster Alignment		
				1

Orchestra				
Course Number	Prerequisite	Credit	Grade Level	Course Length
808	Determined by Audition	1.0	9-12	1 year
<p>Students learn a wide variety of music to be performed at the winter and spring concerts as well as the annual Pasta and Presto dinner. The orchestra also participates in the Music Department Trip. Students do have the opportunity to participate in the Pit Orchestra for the musical in the spring. Students are encouraged to audition for and participate in Jr. and Sr. County Orchestra, District Orchestra, and the Reading Symphony Youth Orchestra.</p> <p>*Placement into the String Ensemble, the select orchestra, is based on seating auditions at the beginning of the school year.</p> <p>The schedule for band, chorus and orchestra rotates in such a way to allow student participation in 1, 2, or all 3 performance-based classes.</p>				
The Arts / Elective Credit		Career Cluster Alignment		
				1

Band, Chorus and Orchestra				
Course Number	Prerequisite	Credit	Grade Level	Course Length
8122	Determined by Audition	1.0	9-12	1 year

Orchestra and Chorus				
Course Number	Prerequisite	Credit	Grade Level	Course Length
809	Determined by Audition	1.0	9-12	1 year

Band and Chorus				
Course Number	Prerequisite	Credit	Grade Level	Course Length
8123	Determined by Audition	1.0	9-12	1 year

Band and Orchestra				
Course Number	Prerequisite	Credit	Grade Level	Course Length
8124	Determined by Audition	1.0	9-12	1 year

Music Theory – Elements of Music				
Course Number	Prerequisite	Credit	Grade Level	Course Length
819	None	.5	9 - 12	1 semester
This course is designed for the student who has little or no experience in reading or understanding music but has a desire to learn. We will not only learn the basics of music (note names and values, key, and time signature, chords, and the elements of composition), but will also study some of the different styles of music, including traditional classical, jazz, and the pop/rock styles.				
The Arts / Elective Credit		Career Cluster Alignment		1

Great Film Music				
Course Number	Prerequisite	Credit	Grade Level	Course Length
817	None	.5	9-12	1 semester
In this course, we will examine the role of music in film. The popularity, significance and value of film art would not be what it is today if music had not become an indispensable part of movies from the outset. The course is not a history of film music, but rather, we will seek to gain understanding of the role of music as it relates to motion pictures.				
The Arts / Elective Credit		Career Cluster Alignment		1

Jazz Studies				
Course Number	Prerequisite	Credit	Grade Level	Course Length
822	Must play an instrument, must be able to read music, involvement in Jazz Band is encouraged.	.5	9-12	1 semester
A course for any musician who loves learning about and performing jazz music. Students will collaborate to learn more about the art of performing jazz music through the study of jazz styles, current trends, and improvisation. This class could lead to performance opportunities as well as working with great artists.				
The Arts / Elective Credit		Career Cluster Alignment		1

Jazz to Rock and Roll				
Course Number	Prerequisite	Credit	Grade Level	Course Length
818	None	.5	9-12	1 semester
Students will learn how genres such as jazz, folk, R&B, and swing contributed to the development of rock and roll through the use of recordings, films, and texts, we will explore the origins of American popular music, it's most important artists and the impact that music has had on society.				
The Arts / Elective Credit		Career Cluster Alignment		1

Music Theory I				
Course Number	Prerequisite	Credit	Grade Level	Course Length
820	Must be enrolled in a Music Ensemble	.5	9-12	1 semester
A course which deals in the materials of musical construction-melody, rhythm, harmony, part writing and ear training. Must be a Band, Chorus, or Orchestra student. <u>Students in this course will have the opportunity to work on projects in our brand-new music technology lab with the latest music software and equipment.</u>				
The Arts / Elective Credit		Career Cluster Alignment		1

Music Theory II				
Course Number	Prerequisite	Credit	Grade Level	Course Length
821	Music Theory I	.5	9-12	1 semester
A continuation of Theory I, delving more deeply into harmony, ear training and part writing.				
The Arts / Elective Credit		Career Cluster Alignment		1

World Music				
Course Number	Prerequisite	Credit	Grade Level	Course Length
825	None	.5	10-12	1 semester
Music from African, Asian, Indian and Hispanic cultures will be the focus of this course. Students will learn about non-Western instruments, scale patterns, and rhythmic patterns through in-class reading assignments, listening, movement activities, documentaries, and playing of instruments.				
The Arts / Elective Credit		Career Cluster Alignment		1

Class Piano				
Course Number	Prerequisite	Credit	Grade Level	Course Length
826	Must be able to read music <i>or</i> have successfully completed Music Theory-Elements of Music <i>or</i> higher (Theory I <i>or</i> Jazz Studies).	.5	9-12	1 semester
Ever want to learn how to play the piano? Here's your chance! <i>This is a beginner-level piano course:</i> students will learn scale/fingering patterns and technique for both the right and left hands, as well as simple 1 and 2-hand songs. <u>This course will be taught in our brand-new music technology lab using our new audio keystations!</u>				
The Arts / Elective Credit		Career Cluster Alignment		

Instrumental Music: Guided Practice				
Course Number	Prerequisite	Credit	Grade Level	Course Length
827	None	.5	9-12	1 semester
This course is for any student who would like to learn or improve upon their instrumental music skills. Students will be able to move at their own pace as they meet daily to practice and receive individual guidance on their instrument. Whether you're trying to learn a new instrument or trying to make it to All-State Band, this course is for you!				
The Arts / Elective Credit		Career Cluster Alignment		

Music Technology				
Course Number	Prerequisite	Credit	Grade Level	Course Length
828	None	.5	9-12	1 semester
Students will work in our brand new music technology lab with the latest music software and equipment. In this course, students will explore many facets of music technology such as composing electronic music, music and sound in film, recording/editing audio and much more!				
The Arts / Elective Credit		Career Cluster Alignment		

SCIENCE DEPARTMENT

The science program in the high school is designed to meet the needs of students who have varying degrees of interest, need, and capability in science. Each student must earn a minimum of three credits in science as a requirement for graduation. Students preparing for a specific vocation should be aware of the science background needed for that occupation and plan their science programs to meet that need. Students preparing to meet college entrance requirements should schedule additional science courses including Chemistry, and/or Physics, Biology II, or Principles of Physics.

Earth and Space Science				
Course Number	Prerequisite	Credit	Grade Level	Course Length
401	None	1.0	9	1 year
This earth and space science course presents an opportunity for the student to investigate and apply critical thinking and concept development to the fields of geology, oceanography, earth history, space science, and meteorology.				
Science Credit		NCAA	Career Cluster Alignment	3 4 5

Accelerated Earth and Space Science				
Course Number	Prerequisite	Credit	Grade Level	Course Length
400	90% average in 8 th grade high ability Science or 93% average in 8 th grade Science and PVAS Projection of 70% Advanced	1.0	9	1 year
Course requirements will include the same requirements as Course 401 plus a more intensive and in-depth treatment of subject. Activity and assignment work in critical thinking, interpreting and applying, and some research and project work, will be involved. Summer work may be required.				
Science Credit		NCAA	Career Cluster Alignment	3 4 5

General Biology				
Course Number	Prerequisite	Credit	Grade Level	Course Length
413	Earth and Space Science	1.0	10	1 year
The major concepts of Biology will be explored such as biochemistry and the molecular basis of life, cellular organization and function, genetics and heredity, evolution and the origin of life. Lab experiments will reinforce course concepts, and students will be working on reading/ writing skills and methods of scientific inquiry to further their knowledge of science as a process. This course has a culminating Keystone Biology Exam .				
Science Credit			Career Cluster Alignment	3 4 5

Biology				
Course Number	Prerequisite	Credit	Grade Level	Course Length
411	Earth and Space Science	1.0	10	1 year
The Biology course has various themes, all of which are explored and then related to the whole. The history of biological concepts, molecular basis of life, cellular organization and function, genetics and heredity, evolution and the interactions of organisms in the world around them. This course includes inquiry based labs, hands on activities, and projects as ways for students to apply what they have learned. This course has a culminating Keystone Biology Exam.				
Science Credit		NCAA	Career Cluster Alignment	3 4 5

Accelerated Biology				
Course Number	Prerequisite	Credit	Grade Level	Course Length
409	90% average Earth and Space Science or 87% in Accelerated Earth and Space Science. and PVAAS Projection of 70% Advanced	1.0	10	1 year
Accelerated Biology is an introductory course designed for students who are planning a career in science as well as a foundational course for students who plan to take AP Biology. The major concepts of Biology will be explored which will include such topics as biochemistry and the molecular basis of life, cellular organization and function, genetics and heredity, evolution and the origin of life, and the interactions of organisms with their environment. Lab experiments will reinforce course concepts, and students will be expected to utilize critical thinking skills and methods of scientific inquiry to further their knowledge of science as a process. Several assignments may be required during the summer in preparation for this course. Summer work may be required. This course has a culminating Keystone Biology Exam.				
Science Credit		*See Dual Enrollment Page 3*	NCAA	Career Cluster Alignment
				3 4 5

Environmental Science				
Course Number	Prerequisite	Credit	Grade Level	Course Length
419	General Biology, Biology or Accelerated Biology and Teacher Recommendation	1.0	11-12	1 year
This course explores the biological interactions that drive the ecological and environmental issues of the planet. In the laboratory, students explore these interactions by evaluating how biology can be used to understand and evaluate ecological and environmental issues. Topics of study include a review of basic biological concepts and how these concepts relate to the environment, an extensive ecology unit, and an exploration of watersheds, wetlands, natural resources and agriculture specifically as they pertain to human interactions with the biosphere. The course will also examine the positive and negative impacts that humans have on the environment and the policies enacted to address environmental and ecological concerns. Throughout the course biology will be used to discuss and solve various environmental and ecological issues facing humanity. This course provides a sound basis for further environmental science studies in high school and college.				
Science Credit		NCAA	Career Cluster Alignment	3 4 5

Chemistry				
Course Number	Prerequisite	Credit	Grade Level	Course Length
421	80% Average in Algebra I or better or Teacher recommendation	1.0	11	1 year
This course explores mathematical relationships within matter and the changes matter undergoes. In the laboratory, students experience these relationships firsthand by observing and measuring changes in matter. Topics of study include the types of matter and its physical changes, as well as the structure of matter and its chemical changes. The main focus is on problem-solving and it encourages students to relate the principles of chemistry to their everyday lives. This course provides a sound basis for further chemistry study in high school and college.				
Science Credit		NCAA	Career Cluster Alignment	3 4 5

Accelerated Chemistry				
Course Number	Prerequisite	Credit	Grade Level	Course Length
426	90% Algebra I or 85% in Honors Algebra	1.0	11	1 year
Pre-AP Chemistry is a course specially designed as a prerequisite to taking AP Chemistry. An intensive course designed to provide the student with a good foundation for future study in the fields of chemistry, biology, medicine or dentistry. Emphasis is placed on higher level thinking skills such as critical thinking, problem solving and application. In addition, extensive laboratory exercises will be performed. The course deals with the inorganic world including chemistry mathematics, chemical nomenclature, atomic and molecular structures, stoichiometry, periodic law and its applications, acids and bases, solutions, and the gas laws. Summer work may be required.				
Science Credit		NCAA	Career Cluster Alignment	3 4 5

AP Biology				
Course Number	Prerequisite	Credit	Grade Level	Course Length
440	95% in Biology or 90% in Accelerated Biology, Teacher Recommendation and must have scored Proficient or Advanced on the Biology Keystone	1.1	11-12	1 year
AP Biology is an intense biology course designed for only those students who plan to major in science in college. The main focus of the course will be on analytical thinking, laboratory processes and biological theory. Students will be required to complete independent work outside class. The AP test for college credit will be taken at the end of the year. This class will meet after school one day per cycle.				
Science / Elective Credit		*See Dual Enrollment Page 3*	NCAA	Career Cluster Alignment
				3 4 5

General Physics				
Course Number	Prerequisite	Credit	Grade Level	Course Length
432	Passing grade in Algebra I & Geometry	1.0	11-12	1 year
This course explores the basic laws of nature that make chemistry and biology possible. The most fundamental laws that govern the universe from galaxies to atoms and everything in between are revealed in their beautiful simplicity. This course has a heavy emphasis on using mathematical principles to model the natural phenomena that we observe. This course is inquiry-based meaning that everything we learn is discovered through experimentation. This course will cover all of the Pennsylvania State Standards for Physics but will provide more support for those who struggle with mathematical reasoning. This course is recommended for all students who have an interest in the physical laws of nature.				
Science / Elective Credit			Career Cluster Alignment	3 4 5

Physics				
Course Number	Prerequisite	Credit	Grade Level	Course Length
431	85% Average or above in both Algebras & Geometry	1.0	11-12	1 year
Students looking to be well rounded and to possess strong critical thinking skills should take physics. This course will cover the Pennsylvania State Standards for excellence in physics and will prepare students for college level work. This class will explore the fundamental laws of nature that govern everything from the interactions of planets and galaxies to the motion of atoms. Specifically, we will have an in depth look at Linear Mechanics, Rotational Mechanics, Electricity & Magnetism, and Wave Mechanics. Physics is an applied mathematics course meaning algebra will be used every step of the way through the course. Recommended for students who want an exceptional college preparatory experience.				
Science / Elective Credit		NCAA	Career Cluster Alignment	3 4 5

AP Physics C: Mechanics				
Course Number	Prerequisite	Credit	Grade Level	Course Length
428	Should have already taken or concurrently enrolled in AP Calculus.	1.0	12	1 year
This advanced physics course is designed for anyone looking to go into engineering or the mathematical sciences in college. Passing the AP test means that you will be able to enter your major with a college level physics course under your belt. This course will explore linear mechanics, rotational mechanics, and simple harmonic motion. This course will prepare students for college level physics within your major. This course is recommended for all students looking to major in physics, engineering, or any other mathematical scientific field.				
Science / Elective Credit		*See Dual Enrollment Page 3*	NCAA	Career Cluster Alignment 3 4 5

Biology II				
Course Number	Prerequisite	Credit	Grade Level	Course Length
441	Successful completion of a Biology Course	1.0	11-12	1 year
An advanced science elective, Biology II covers six areas of biology in depth with the intent of preparing students for college level work. Botany is a study of plants, their parts, function, and economic importance. Anatomy is the study of body structure as learned primarily through dissection of the shark. Genetics studies the structure and function of DNA, inheritance of traits, family trees, statistical analysis, and current research in the field. Embryology compares development of the frog, chick, and mammal. A fetal pig is dissected to show the mammalian level of development. Microbiology is the study of viruses, bacteria, fungi, and their importance to causing disease as well as their economic importance. Ecology is the study of life and the environment.				
Science / Elective Credit		NCAA	Career Cluster Alignment	3 4 5

Chemistry II				
Course Number	Prerequisite	Credit	Grade Level	Course Length
451	88 % or above in Chemistry or 85% or above in Accelerated Chemistry and a course in Algebra II and teacher approval.	1.0	12	1 year
This course builds on the principles of chemistry, covered in first year chemistry. Topics include molecular structure, thermodynamics, acids, bases, salts, polarity, kinetics, chemical equilibrium, electrochemistry, redox reactions, organic chemistry and biochemistry. This higher level course will help prepare students for a science major in college and it is taught using the same curriculum as AP chemistry, but without the laboratory emphasis.				
Science / Elective Credit		NCAA	Career Cluster Alignment	3 4 5

AP Chemistry				
Course Number	Prerequisite	Credit	Grade Level	Course Length
450	95% in Chemistry or 90% in Accelerated Chemistry and teacher recommendation	1.1	12	1 year
AP Chemistry is an intense chemistry course designed for students who plan on majoring in science in college or who would like to receive college credit in science as non-science majors. The main focus of the course will be on analytical thinking, laboratory process and chemistry theory which includes molecular structure, thermodynamics, acids, bases and salts, polarity, kinetics, chemical equilibrium and electrochemistry. The AP test for college credit will be taken at the end of the year. This class will meet after school one day per cycle.				
Science / Elective Credit		*See Dual Enrollment Page 3*	NCAA	Career Cluster Alignment 3 4 5

Human Anatomy and Physiology				
Course Number	Prerequisite	Credit	Grade Level	Course Length
455	88% or above in Biology and Chemistry (Chemistry may be taken concurrently) and teacher approval.	1.0	11-12	1 year
This course is directed to students seeking occupations in the health or science field. Lessons will focus on the general plan of the human body, concentrating on the body's cells, tissues and systems.				
Science / Elective Credit	*See Dual Enrollment Page 3*	NCAA	Career Cluster Alignment	3 4 5

Astronomy				
Course Number	Prerequisite	Credit	Grade Level	Course Length
460	82% in Earth & Space Science	.5	10-12	1 semester
A nonmathematical coverage of the applied concepts such as location, history, motion, instruments, and exploration used to explore and explain our universe. Research projects and discussion will be a large part of the course.				
Elective Credit		NCAA	Career Cluster Alignment	3 4 5

Biochemistry				
Course Number	Prerequisite	Credit	Grade Level	Course Length
449	Accelerated Chemistry or 90% in Chemistry CP	.5	12	1 semester
This course will focus on the building blocks of life and the chemical reactions that characterize life. Topics will include organic chemistry, amino acids and proteins, enzymes, carbohydrates, lipids, nucleic acids, and metabolism. The goal of the biochemistry course is to help students gain a better understanding of how our bodies function and the role of chemicals in our lives. This program is designed to especially assist students planning to enter pre-pharmacy and chemical engineering programs in college.				
Elective Credit		NCAA	Career Cluster Alignment	3 4 5

Forensic Science				
Course Number	Prerequisite	Credit	Grade Level	Course Length
465	Biology	.5	11-12	1 semester
This course is designed as an introduction to forensic science, which is the application of scientific methods and techniques to problems in the context of crime and the legal system. Topics of study include: processing a crime scene; categorizing types of evidence; processing physical evidence, including fibers, glass and soil, through chemical and physical means; microscopy; toxicology; and processing blood, DNA and fingerprint evidence. The course will rely heavily on laboratory exercises.				
Elective Credit		NCAA	Career Cluster Alignment	3 4 5

Marine Science				
Course Number	Prerequisite	Credit	Grade Level	Course Length
461	82% in Earth & Space Science	.5	10-12	1 semester
This course reviews the basic concepts of oceanography and approaches the marine environment from an ecological, zoological, chemical and physical perspective. The course will involve various laboratory activities as well as several animal dissections.				
Elective Credit		NCAA	Career Cluster Alignment	3 4 5

Meteorology				
Course Number	Prerequisite	Credit	Grade Level	Course Length
463	82% in Earth & Space Science	.5	10-12	1 semester
This course focuses on the dynamic nature of the Earth's atmosphere. You will explore the properties of air masses and their interactions which produce weather fronts, clouds, storms, and precipitation. Past Ice Ages and the Earth's current warming period will be analyzed. Student developed presentations are a requirement.				
Elective Credit		NCAA	Career Cluster Alignment	3 4 5

Paleontology				
Course Number	Prerequisite	Credit	Grade Level	Course Length
462	82% in Earth & Space Science	.5	10-12	1 semester
This course takes a closer look at the geological time periods of the earth's history and the biological and physical events that took place. Life during these periods, such as dinosaurs, will also be discussed. Fossil sample study and lab activities are an integral part of the course.				
Elective Credit		NCAA	Career Cluster Alignment	4 5

Science Fact, Science Fiction: The truth about phasers, lasers and droids				
Course Number	Prerequisite	Credit	Grade Level	Course Length
468	Biology	.5	11-12	1 semester
Many times works of science fiction contain elements of science which are incorrect or are exaggerated into fantasy. This course will discover and discuss the bad science involved in science fiction, as well as, examining science fiction books and films for technologies which at one time were a fantasy and are now realities. In addition, works will be discussed to discover those technologies which may or may not be a possibility in the future. Topics of discussion will cover Biology, Chemistry, Physics and applied technologies in each of those areas.				
Elective Credit			Career Cluster Alignment	3 4 5

Zoology				
Course Number	Prerequisite	Credit	Grade Level	Course Length
459	Earth & Space Science	.5	10-12	1 semester
This course is designed as an introduction to zoology, which is the study of animals. The course will cover all animal phyla from the simplest invertebrate up through the most complex vertebrates. Each group of animals will be covered in detail and all animal life processes will be discussed. The course will include hands-on laboratory assignments and specimen dissections.				
Elective Credit		NCAA	Career Cluster Alignment	3 4 5

SOCIAL STUDIES DEPARTMENT

The social studies program is designed to provide students with an understanding of the development and organization of human society through the acquisition of knowledge and the use of critical thinking skills. It embraces the concepts of human freedom, dignity, and diversity, as well as citizenship and the interdependence of the world's peoples. It discusses these concepts openly and relates them to history and contemporary affairs. Through this process students will become more informed, will learn to more fully use analytical skills, and will become understanding of all cultures and peoples.

American History I				
Course Number	Prerequisite	Credit	Grade Level	Course Length
204	None	1.0	9	1 year
This course will allow students to explore American history from 1850 to the onset of the Great Depression. Students will focus on the history and culture of America during this time period. Emphasis is placed on factors leading up to the Civil War, the Civil War, Reconstruction; the politics of the late 19th Century; the progress in technology and business; the development of the U.S. as a world power; the Progressive Era; World War I and its impact on America, and the post-WWI era of the 1920s leading up to the onset of the Great Depression.				
Social Studies Credit		NCAA	Career Cluster Alignment	4

Accelerated American History I				
Course Number	Prerequisite	Credit	Grade Level	Course Length
203	93% average in 8 th grade high ability Social Studies or 95% average in 8 th grade Social Studies	1.0	9	1 year
Accelerated Ninth grade American History I is designed to introduce students to an advanced version of the regularly offered course. The focus will be on the use of higher order thinking skills in the examination of these content areas. Special attention will be placed on writing creatively in essay format, growth in public speaking skills, and working independently and cooperatively. Students will be encouraged to analyze and subjectively synthesize information from a variety of primary and secondary sources. Summer work may be required.				
Social Studies Credit		NCAA	Career Cluster Alignment	4

World History				
Course Number	Prerequisite	Credit	Grade Level	Course Length
211	None	1.0	10	1 year
Students will be exposed to the origins of the world's great religions. Emphasis will be placed on their impact on the world over time. Concentration will be placed on the development of Europe from the Italian Renaissance and Reformation through the period of Absolute Monarchs, the Enlightenment and wave of Revolutions that created modern Europe, leading to the Age of Imperialism and eventual World Transformation.				
Social Studies Credit		NCAA	Career Cluster Alignment	4

AP World History: Modern				
Course Number	Prerequisite	Credit	Grade Level	Course Length
213	85% or better in both Acc.History and Acc.English. 95% or better in American History I and English	1.0	10	1 year
A survey course designed to give students grounding in the subject matter of World History and in major interpretive questions that derive from the study of selected themes. Students will learn the skills necessary to assess historical materials, arrive at conclusions on the basis of informed judgment, and to present reasons and evidence clearly and persuasively in essay format. The Advanced Placement examination in World History will be offered in May. High achievement in this exam may exempt students from freshmen work in World History on the college level. Summer work may be required.				
Social Studies Credit		*See Dual Enrollment Page 3*	NCAA	Career Cluster Alignment
				4

American History II				
Course Number	Prerequisite	Credit	Grade Level	Course Length
223	none	1.0	11	1 year
This course a survey of modern American history from World War II to the present. Emphasis is placed on the political, economic and cultural milestones of the 20 th Century. Topics can include World War II & the Holocaust, The 1950's & the Cold War, Civil rights, the Vietnam War, the 1980's & 90's and into the 21 st Century as time allows.				
Social Studies Credit		NCAA	Career Cluster Alignment	4

AP United States History				
Course Number	Prerequisite	Credit	Grade Level	Course Length
220	85% in both AP World History and Honors English in the freshmen and AP English sophomore years, or a 95% in World History or teacher/counselor recommendation	1.0	11	1 year
A survey course designed to give students grounding in the subject matter of United States history, and in major interpretive questions that derive from the study of selected themes. Students will learn the skills necessary to assess historical materials, arrive at conclusions on the basis of informed judgment, and to present reasons and evidence clearly and persuasively in essay format. This course is reading and writing intensive. The Advanced Placement examination in United States History will be offered to Students in May. High achievement in this exam may exempt students from freshmen work in U. S. History on the college level. Expenses need to be paid for by the Student and his/her family. Summer work may be required.				
Social Studies/Elective Credit *See Dual Enrollment Page 3* NCAA		Career Cluster Alignment		
				4

AP United States Government and Politics				
Course Number	Prerequisite	Credit	Grade Level	Course Length
230	85% in English 11, 85% in AP US History 93% in American History II	.5	12	1 semester
The AP course in U.S. Government and Politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. Students will become acquainted with the variety of theoretical perspectives and explanations for various behaviors and outcomes.				
Social Studies/Elective Credit *See Dual Enrollment Page 3* NCAA		Career Cluster Alignment		
				4

AP Macroeconomics				
Course Number	Prerequisite	Credit	Grade Level	Course Length
231	90% in another AP course and Algebra II or 93 in American History II and 85% in algebra II or 85% in another AP Social Studies Course	.5	12	1 semester
The purpose of a course in AP Macroeconomics is to provide students a thorough understanding of the principles of economics that apply to an economics system as a whole while preparing students for success on the AP Macroeconomics exam administered each May. This course places particular emphasis on the study of the measurement of economic performance, national income and price determination, money, banking and financial markets, economic challenges, and international economics.				
Social Studies/Elective Credit *See Dual Enrollment Page 3* NCAA		Career Cluster Alignment		
				2 4

Government				
Course Number	Prerequisite	Credit	Grade Level	Course Length
232	None	.5	12	1 semester
This course concentrates on an integral part of our lives; the American political and governmental system - how it works and the theories behind it. The student is exposed to the workings of elections, political parties, and our federal government. A more in-depth study of the electoral process and the workings of the federal government are included.				
Social Studies Credit		NCAA	Career Cluster Alignment	
				4

Consumer Economics 12				
Course Number	Prerequisite	Credit	Grade Level	Course Length
235	None	.5	12	1 semester
This course is an analysis of the various facets of our economic system, with particular emphasis on the role of the consumer. The effects of advertising, governmental policy, business practices, and financial institutions on the economic life of the U.S. citizen highlight the course.				
Social Studies Credit		Career Cluster Alignment		
				4

Economics				
Course Number	Prerequisite	Credit	Grade Level	Course Length
233	None	.5	12	1 semester
This course is designed to provide each student with a survey of economic principles and practices which will serve as a basis for understanding the introductory college economics course. Topics included in this course are basic principles of the free-market system, price determination by supply and demand, the role of labor and business in production, consumerism, banking, economic growth and stability, and the role of government in the economy.				
Social Studies Credit		NCAA	Career Cluster Alignment	2 4

20th Century Popular Culture				
Course Number	Prerequisite	Credit	Grade Level	Course Length
242	None	.5	10-12	1 semester
This course is designed to analyze the effects that popular culture has had on American society as well as American society's impact on popular culture. Students will focus on the events and personalities that have shaped this culture with emphasis on family, youth, music, race, sports, "The hero" and the "classics" as seen in pop cultures.				
Humanities / Elective Credit		Career Cluster Alignment		1 4

Geography				
Course Number	Prerequisite	Credit	Grade Level	Course Length
236	None	.5	10-12	1 semester
Are you interested in finding out more about the places and cultures of the United States and the World? If so, this introductory geography course will enrich your knowledge of the locations and places in the United States and the World. This course will use a thematic approach, Geography will focus on regions of the United States and the World. Students will apply geographic concepts such as population, agriculture, natural resource allocation and management, industry, political geography, cultural geography and organization to their lives. In addition, students will examine the impact of the physical environment on people and cultures.				
Humanities / Elective Credit		NCAA	Career Cluster Alignment	1 4

Anthropology				
Course Number	Prerequisite	Credit	Grade Level	Course Length
255	None	.5	10-12	1 semester
This introductory course in Anthropology begins with a description of Anthropology and how anthropologists' study human diversity in time and space. We will explore culture, evolution, genetics, language and communication and the origin and spread of modern humans. We will conclude our study of Anthropology doing research and field work in Archaeology. Anthropology, where the past meets the future.				
Humanities / Elective Credit		Career Cluster Alignment		1 4

Minorities in American History				
Course Number	Prerequisite	Credit	Grade Level	Course Length
251	None	.5	10-12	1 semester
This course examines the experience of various minority groups Native American, African American, Latino American, and Asian American cultures in the United States. It will examine the roles that various minority groups have played in the United States' economic, social, cultural and political evolution from colonial time to the present. Finally, the course explores the ways in which minorities have organized and struggled to improve the condition of their own lives and promote social equality.				
Humanities / Elective Credit		NCAA	Career Cluster Alignment	4

Hamilton, the Founding Fathers & the Early Republic				
Course Number	Prerequisite	Credit	Grade Level	Course Length
234	successful completion of American History 1	.5	10-12	1 semester
Hamilton and the other founding fathers as depicted in Lin Manuel Miranda's hit musical were revolutionary in their ideas and made decisions and choices that impact our country and lives today. In this course, we will dive deeper into the actions, events, and contributions of Hamilton and the other founding fathers – and a few founding mothers too! Emphasis will be placed on the settling of the United States, the Revolutionary War, and the early years of the United States. Don't miss your chance to be "In the Room Where It Happened" to find out more about the early history of the United States and the roots of our current government, economics, and social systems.				
Humanities / Elective Credit		Career Cluster Alignment		1 4

Psychology				
Course Number	Prerequisite	Credit	Grade Level	Course Length
254	None	.5	10-12	1 semester
This course is designed as an introductory experience into the field of psychology. Units of study include the history of psychology, gender, adolescence, social interaction, psychological disorders, and more. It is intended to further the growth of individual development and personal identity as it relates to the world around us.				
Humanities / Elective Credit		NCAA	Career Cluster Alignment	4 5

Sociology				
Course Number	Prerequisite	Credit	Grade Level	Course Length
243	None	.5	10-12	1 semester
Societal issues such as social organization, social structure, and socialization will be discussed in this course. Included will be discussions on marriage, problems of society such as violence and alcohol and drug abuse, cultural diversity, and issues confronting the family such as divorce and dependent care.				
Humanities / Elective Credit		NCAA	Career Cluster Alignment	4 5

Women's Studies				
Course Number	Prerequisite	Credit	Grade Level	Course Length
246	None	.5	10-12	1 semester
This course will offer students a different perspective on history. It looks at history from the viewpoint of women. In the first half of this course, the focus is on women as "Superwomen," how women and girls are perceived in society and the cultural norms that are in place that define women. Discussions center around how the media treats women and girls, who our superheroes are, and how we can raise the bar in society for women and girls. In the second half of the course, the focus is on issues that women and girls face around the world, such as violence against women, job security, equal rights, and medical concerns.				
Humanities / Elective Credit			Career Cluster Alignment	1 4

World War II through Film and Literature				
Course Number	Prerequisite	Credit	Grade Level	Course Length
257	None	.5	10-12	1 semester
Students will examine aspects of World War II through film, one book review and selected readings. Topics covered will include race in World War II, dropping the atomic bomb, the Western and Eastern European front, and the attack on Pearl Harbor.				
Humanities / Elective Credit			Career Cluster Alignment	1 4

Global History				
Course Number	Prerequisite	Credit	Grade Level	Course Length
225	Career Center Students	1.0	11	1 year
This course covers selected topics of World History and American History. In World History, the emphasis will be placed on the Middle Eastern Empires, Exploration and European contact with Asia, European Colonization of the New World, the Age of Enlightenment, and the French Revolution. In American History, the emphasis will be placed on the political, economic, and cultural milestones of the 20 th Century. Topics will include WWII, including the Holocaust, the Cold War, the Civil Rights Movement, and the Vietnam War.				
Humanities / Elective Credit		NCAA	Career Cluster Alignment	1 4

TECHNOLOGY EDUCATION

Technology Education courses provide a choice of courses which involve both theory and actual "hands on" experiences. Instruction is related to both hobby and career interest in these areas. All students should try to schedule a number of these courses during their high school career.

Construction and Manufacturing Technology				
Course Number	Prerequisite	Credit	Grade Level	Course Length
880	None	1.0	9	1 year
Students receive a well-rounded exposure to tools, materials and processes. These include metal, electronics, wood and construction. Projects include independent and group work. The course is particularly recommended for students planning on attending the Career & Technology Center.				
Business-Technology / Elective Credit			Career Cluster Alignment	3

Design Applications				
Course Number	Prerequisite	Credit	Grade Level	Course Length
881	None	.5	9-12	1 semester
Students apply drafting techniques to complete a project using sheet metal. All steps of design and problem-solving are then reinforced in the form of a mouse trap vehicle challenge.				
Business-Technology / Elective Credit			Career Cluster Alignment	3

Wood Shop I				
Course Number	Prerequisite	Credit	Grade Level	Course Length
883	None	.5	9-12	1 semester
This course provides an introduction of basic hand woodworking tools and the introduction of the following woodworking machines: Circular saw, jointer, planer, radial saw, band saw, and router. Basic wood finishing and project planning are covered. This course may involve a fee for supplies.				
Business-Technology / Elective Credit			Career Cluster Alignment	3

Metal Shop I				
Course Number	Prerequisite	Credit	Grade Level	Course Length
884	None	.5	9-12	1 semester
Class focuses on metals as they can be applied to everyday life situations, i.e. welding, bending, cutting, and identification. Students also get the options of exercising casting and forging techniques. Course may only be taken once. This course may involve a fee for supplies.				
Business-Technology / Elective Credit			Career Cluster Alignment	3

Wood Shop II (Semester)				
Course Number	Prerequisite	Credit	Grade Level	Course Length
8831	Wood Shop I	.5	10-12	1 semester
This course uses Wood Shop I as a platform where students have acquired the skills and knowledge of processing wood and its' associated terminology. In Wood Shop I, students learn very basic joinery skills which will be built upon and reinforced through Wood Shop II. Primary differences between Wood Shop I and Wood Shop II are the amount of responsibility placed on the student and increased difficulty of the project. Wood II introduces tolerances in the form of drawers. Students are required to draw full scale drawings of their design, detailing joinery aspects. Students will learn the joinery techniques through teacher-student discussion and sample videos. Students are required to pay for their own materials.				
Business-Technology / Elective Credit			Career Cluster Alignment	3

Wood Shop II (Year)				
Course Number	Prerequisite	Credit	Grade Level	Course Length
8832	Wood Shop I	1.0	10-12	1 year
This course uses Wood Shop I as a platform where students have acquired the skills and knowledge of processing wood and its' associated terminology. In Wood Shop I, students learn very basic joinery skills which will be built upon and reinforced through Wood Shop II. Students are then required to draw full scale drawings of their design, detailing joinery aspects. Students will learn the joinery techniques through teacher-student discussion and sample videos. Students will be required to do class demonstrations on their projects types of joinery. The size and scope of projects will be dictated by the length of class. The additional semester allows the student to select a project of their own. Students are required to pay for their own materials.				
Business-Technology / Elective Credit			Career Cluster Alignment	3

Wood Shop III – Cabinetry (Semester)				
Course Number	Prerequisite	Credit	Grade Level	Course Length
8833	Wood II	.5	10-12	1 semester
The highest level of structured woodworking courses. All project ideas and plans will be created entirely by the student. A design concept, e.g., a hanging shelf will be introduced, and students will go through the design process of brainstorming existing designs. Brainstorming various uses for designs, and finally arriving at a use and design for their individual project. There is a cost associated with this course.				
Business-Technology / Elective Credit			Career Cluster Alignment	3

Wood Shop III – Cabinetry (Year)				
Course Number	Prerequisite	Credit	Grade Level	Course Length
8834	Wood II	1.0	10-12	1 semester
The highest level of structured woodworking courses. All project ideas and plans will be created entirely by the student. A design concept, e.g., a hanging shelf will be introduced, and students will go through the design process of brainstorming existing designs. Brainstorming various uses for designs, and finally arriving at a use and design for their individual project. The additional semester allows the student to select a suitable project of their own choosing. There is a cost associated with this course.				
Business-Technology / Elective Credit			Career Cluster Alignment	3

Woodworking Design (Semester)				
Course Number	Prerequisite	Credit	Grade Level	Course Length
8835	Woods III	.5	10-12	1 semester
Wood Shop III students can take independent studies during other woods courses. Approval from the instructor is required for independent studies. There is a cost associated with course.				
Business-Technology / Elective Credit			Career Cluster Alignment	3

Woodworking Design (Year Long)				
Course Number	Prerequisite	Credit	Grade Level	Course Length
8836	Woods III	1.0	10-12	1 year
Wood Shop III students can take independent studies during other woods courses. Approval from the instructor is required for independent studies. There is a cost associated with course.				
Business-Technology / Elective Credit			Career Cluster Alignment	3

Introduction to Electricity/Electronics				
Course Number	Prerequisite	Credit	Grade Level	Course Length
885	None	.5	9-12	1 semester
This course will explore the basic principles of electricity and how it relates to our everyday life. Series, parallel and combination circuits will be investigated along with inductance, capacitance, and power supplies. Elementary semiconductor devices will also be explored. Although this course will involve some basic instructional approaches, a majority of the time will be devoted to investigating and reinforcing theories through utilization of electronics trainers. Concepts will be applied to methods of residential wiring as a number of switch and outlet circuits while being covered. This course may involve a fee for supplies.				
Business-Technology / Elective Credit			Career Cluster Alignment	3

Photography				
Course Number	Prerequisite	Credit	Grade Level	Course Length
864	Should have a 35mm SLR Fully Manual Camera w/Lens and a digital camera	.5	10-12	1 semester
This course will introduce black and white film and darkroom as well as digital photography. <i>A 35mm SLR camera is needed for this course, as well as a good quality digital camera (DSLR) that is not a cellular device.</i> Students planning to take Photography may need to schedule extra work time during and after the school day. There will be a fee for darkroom paper, film, and supplies.				
Business – Technology/The Arts /Elective Credit			Career Cluster Alignment	1

Photography Studio				
Course Number	Prerequisite	Credit	Grade Level	Course Length
865	90% in Photography	.5	10-12	1 semester
This course is an independent study for students who would like more experience in photographic techniques and processes. Individual plans will be developed to meet the goals of the students for each semester they enroll. Students will need their own camera for darkroom work and a fee may be charged for paper, film and other supplies used. This course may be taken multiple times to learn more about different forms of photography, maintaining a grade of 90% in the course is required to repeat.				
Business-Technology/The Arts /Elective Credit		Career Cluster Alignment		

Introduction to Engineering Design				
Course Number	Prerequisite	Credit	Grade Level	Course Length
454	None	.5	9 - 10	1 semester
This course is an introductory level course in the Engineering Design Method and will explore the many careers in the Engineering industry. Specifically geared towards 9th grade students with little technology/engineering background, this is a required course for students who are interested in further Engineering and CAD courses. Students will learn the skills of research, observation, interviewing, journaling, developing an idea, sketching, scale, discussion, feedback, redesign, prototyping, testing, and analysis. There will be a lab fee for 3D printing and prototyping materials.				
Business-Technology / Elective Credit		Career Cluster Alignment		

Engineering				
Course Number	Prerequisite	Credit	Grade Level	Course Length
456	85% in Algebra II (and Teacher Recommendation for Grade 11)	.5	11-12	1 semester
A project-based approach to the engineering design process. Students will develop an understanding of materials, forces, energy, electrical systems, and the impact of engineering on society. Teamwork, problem-solving and decision making will be emphasized throughout the course. The course will introduce electrical and mechanical engineering with a focus on basic 3D design. Designed for those upper classmen interested in an engineering career path but who have advanced beyond the basic "Intro to Engineering Design" course offering. There will be a lab fee for 3D printing and prototyping materials.				
Elective Credit		Career Cluster Alignment		

Engineering Design				
Course Number	Prerequisite	Credit	Grade Level	Course Length
8991	Advanced CAD	1	12	1 year
This course is a senior level application of concepts in the Engineering Design method. Each quarter will have a separate engineering prompt to research, design, prototype, present, trouble shoot and redesign and then put into proper use. There will be a lab fee for 3D printing and prototyping materials.				
Business-Technology / Elective Credit		Career Cluster Alignment		

Computer Aided Design (CAD) Concepts				
Course Number	Prerequisite	Credit	Grade Level	Course Length
8891	none	1	10-12	1 year
This course is an introduction to AutoCAD through the creation of Geometric Constructions. This is an intensive course where students can progress through the first three most important geometric drawing concepts leading to a better/comprehensive understanding of modeling parts. An introduction to Three View Orthographic Constructions and Section View Drawing, and an introduction to 3-D Drawing using SolidWorks software may occur as the year progresses.				
Business-Technology / Elective Credit		Career Cluster Alignment		

Advanced CAD				
Course Number	Prerequisite	Credit	Grade Level	Course Length
8892	CAD Concepts	1	11-12	1 year
This course is an overview of intermediate and advanced Multi-View/Section Drawings and Working Drawings. This is an intensive course to include: auxiliary views, assemblies, and threading. This is a course that will include Solid Modeling within the SolidWorks software, it is NOT a modeling course though it is possible that some modeling will occur as the year progresses.				
Business-Technology / Elective Credit		Career Cluster Alignment		

Computer Aided Design Research & Development (CAD R&D) – Independent Study				
Course Number	Prerequisite	Credit	Grade Level	Course Length
899	Advanced CAD	.5	10-12	1 semester
After the completion of the advanced level of Working Drawings and Multi-Part Mechanical Drawing in both SolidWorks and AutoCAD, an Independent Study in advanced drafting and solids can be taken. This course can be tailored to the student's interests in Engineering/CAD. There may also be opportunity for certification in SolidWorks if taken for a full year.				
Business-Technology / Elective Credit		Career Cluster Alignment		1 3

WORLD LANGUAGE DEPARTMENT

The modern World Languages curriculum is designed to prepare students to function successfully in the country where the language originates and/or to meet the requirements for college entrance. Emphasis is placed on proficiency in listening, speaking, reading, and writing the language

German I				
Course Number	Prerequisite	Credit	Grade Level	Course Length
500	None	1.0	9-12	1 year
This course is designed to introduce the student to the German language and culture. Culture will be investigated throughout the school year using a variety of authentic sources. Students will work towards basic proficiency in German, focusing on the skills of reading comprehension, writing, speaking, and listening. Additionally, basic grammar will be introduced, facilitating effective communication in a variety of simple situations.				
Humanities / Elective Credit		NCAA	Career Cluster Alignment	1 2 3 4 5

German II				
Course Number	Prerequisite	Credit	Grade Level	Course Length
501	German I	1.0	10-12	1 year
This course continues introducing students to German language and culture, focusing on more in-depth cultural issues. Aspects of German and American culture will be compared throughout the year. Students will continue to strengthen their reading comprehension, writing, speaking, listening, and communicative skills. More grammar concepts will be introduced, including writing and speaking in the past tense.				
Humanities / Elective Credit		NCAA	Career Cluster Alignment	1 2 3 4 5

German III				
Course Number	Prerequisite	Credit	Grade Level	Course Length
502	German II	1.0	11-12	1 year
In this course, students will focus on more advanced aspects of grammar and expression. Students will discuss issues related to personal health and fashion choices. Students will improve reading comprehension as they read a series of legends and write about them. Effective communication in a variety of situations will also be addressed.				
Humanities / Elective Credit		NCAA	Career Cluster Alignment	1 2 3 4 5

German IV				
Course Number	Prerequisite	Credit	Grade Level	Course Length
503	85% in German III	1.0	11-12	1 year
Students review the first three years of German study. Vocabulary enrichment continues through informational articles selected from all walks of life: artists, musicians, scientists, etc. There will be an examination of history, literature, music, art, and science. German literature is carefully read and discussed through a novel, short stories, and plays by some of the great masters. Original composition is practiced. Grammatical structures are strengthened through frequent usage.				
Humanities / Elective Credit		NCAA	Career Cluster Alignment	1 2 3 4 5

Spanish I				
Course Number	Prerequisite	Credit	Grade Level	Course Length
510	None	1.0	9-12	1 year
This course is designed to introduce the student to the Spanish language and culture. The class will compare and connect the language to their own. Students will learn about all regions where Spanish is spoken through the use of the text, music, food, magazines, and a variety of other supplemental materials. They will begin communication in Spanish by utilizing a variety of vocabulary in authentic tasks.				
Humanities / Elective Credit		NCAA	Career Cluster Alignment	1 2 4 5

Spanish II				
Course Number	Prerequisite	Credit	Grade Level	Course Length
511	Spanish I	1.0	9-12	1 year
Students will continue to build on and utilize basic communication skills and vocabulary learned in Spanish I in a variety of classroom tasks. Students will continue the development of basic grammar functions, and their use. Students will use the target language to create short skits representative of the type of language structures being studied. The class will investigate traditions of the Spanish speaking populations in the U.S. and the world through a variety of media.				
Humanities / Elective Credit		NCAA	Career Cluster Alignment	1 2 4 5

Spanish III				
Course Number	Prerequisite	Credit	Grade Level	Course Length
512	85% in Spanish II or Teacher Recommendation	1.0	10-12	1 year
This is an intensive intermediate level course in Spanish grammar and vocabulary. This course will build upon and expand students' prior knowledge of communicative skills, grammar, and vocabulary from Spanish I and II. One of the primary goals of level III is to acquire the skills necessary to narrate events in the past, using both oral and written forms.				
Humanities / Elective Credit		*See Dual Enrollment Page 3* NCAA	Career Cluster Alignment	1 2 4 5

Spanish IV				
Course Number	Prerequisite	Credit	Grade Level	Course Length
513	85% in Spanish III	1.0	11-12	1 year
This is an intensive, advanced level course in Spanish grammar and vocabulary. This course will build upon and expand students' prior knowledge of communicative skills, grammar, and vocabulary. The focus will be on the subjunctive mode and compound tenses, as well as other advanced grammar topics. Students will demonstrate their creative use of the language through spontaneous dialogue, class discussions, various presentations, and skits.				
Humanities / Elective Credit		*See Dual Enrollment Page 3* NCAA	Career Cluster Alignment	1 2 4 5

Spanish V				
Course Number	Prerequisite	Credit	Grade Level	Course Length
514	85% in Spanish IV	1.0	12	1 year
Students will review the major topics from levels I-IV and continue to develop and enhance their listening, reading, writing, and speaking skills. This course will integrate Spanish into other content areas such as literature, art, and history. A major focus will be on the lives and works of several Spanish and Mexican artists. Students will also examine the lives and contributions of several Latin American authors.				
Humanities / Elective Credit		*See Dual Enrollment Page 3* NCAA	Career Cluster Alignment	1 2 4 5

Passport to Travel				
Course Number	Prerequisite	Credit	Grade Level	Course Length
515	None	.5	9-12	1 semester
In this project-based course students will explore and discover cultural differences of the many Spanish-speaking countries. Topics may include: food, sports, traditions, site-seeing attractions and popular destinations. You do not have to speak Spanish to enjoy this class!				
Humanities/Elective Credit		Career Cluster Alignment		1 4

Exploring Culture through Media				
Course Number	Prerequisite	Credit	Grade Level	Course Length
516	Spanish I	.5	9-12	1 semester
This course will be an adventure designed to help students gain a greater understanding of and appreciation for the cultural traditions of Spanish-speaking countries. Activities will include videos, virtual field trips, crafts, music, projects, food prep, and online investigations. Students will also learn basic Spanish vocabulary related to cultural studies.				
Humanities/Elective Credit		Career Cluster Alignment		1 4