## Unionville High School course selection Guide 2021-2022 <br> 

Empower each student to succeed in life and contribute to society.

Unionville High School 750 Unionville Rd<br>Kennett Square, PA 19348

Mr. James Conley, High School Principal

## Unionville-Chadds Ford School District

## BOARD OF DIRECTORS

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| :--- | :--- | :--- |
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## SCHOOL DISTRICT CENTRAL ADMINISTRATION

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| :---: | :---: |
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| Director of Special Education and Pupil | Dr. Leah Reider |
| Supervisor of Special Education. | Shannon Brown |
| 504 Coordinator | Sabrina Ellwood |

## UNIONVILLE HIGH SCHOOL ADMINISTRATION

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Dean of Students Patrick Clark
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Assistant Principal Jessica Knier
8th Grade School Counselor. Cara Malone
UNIONVILLE HIGH SCHOOL FACULTY LIST
School NurseAllison Newbrough
School Social Worker ..... Sarah Graden
School Social Worker ..... TBD
IST Coordinator. ..... Jessica Bogusch
School Psychologist. Dr. Wendy Farina
School Psychologist/504 Coordinator. .Sabrina Ellwood
Learning to Learn. .Heather Biddle

## School Counselor Caseload Distribution

| 2021-2022 <br> Counselor | 9th Grade <br> Class of 2025 | 10th Grade <br> Class of 2024 | 11th Grade <br> Class of 2023 | 12th Grade <br> Class of 2022 |
| :--- | :--- | :--- | :--- | :--- |
| C. Miller | TBD | A-Ch | A-C | A-C |
| R. Findora | TBD | Ci-Har | D-Har | D-H |
| A. Hessenauer | TBD | Has-L | Has-L | I-Mic |
| M. Lyles* | TBD | M-O | M-N | Mid-O |
| L. Elfreth | TBD | P-Sr | O-Sm | P-SI |
| C. Spiegel | TBD | St-Z | Sn-Z | Sm-Z |

ACADEMICALLY TALENTED
Maggie Hunt

## ART

Faith Dilworth*
Noelle Porco
Louis Stamis

## BUSINESS APPLICATIONS

Gwen Hicks
Joe Kilpatrick*
John Starkey
DRIVERS ED
Buddy Meredith

## ENGLISH

Amy Ahart*
Joseph Ahart
Ashley Burslem
Katie DelDotto
Patricia Leever
Jessie Findora
Jennifer Haak
Keeley Lannon
Daniel Lipowitz
Betsy Hickman
Janet Holguin
Tim Patton
Kate Sager

ENGLISH LANGUAGE LEARNER
Trish Difilippo
FAMILY \& CONSUMER SCIENCE
Robin Daly

HEALTH \& PHYSICAL EDUCATION
Joe Herman*
G."Buddy" Meredith

Andrew Moister
Mandi Quinn

LIBRARY \& MEDIA CENTER TBD

MATHEMATICS
Christina Clark
Loreen Dietz
Erin DiTeodoro
Jessica Gigliotti
Alison Holmes
Sherri Hwang
Patrick Kehan
Kevin Long*
Adam Mobley
Dori Ray
Jennifer Sarno
Erika Tessitore
Julie Toy
Trevor Tredway
MUSIC
Edward Otto
Jason Throne*
Leo Zumpetta

## SCIENCE

Patrisha Burt
Jeremy Dickson
Heather Haitz
Matt Hurray
Meghan Kanski
Mark Lacianca
Jennifer Liegeot
Sandy Litvin
Charles Manning
Kari Oakes
Diane Schafer
Stephanie Smith
Diana Tucker
Doug Vallette*

## SOCIAL STUDIES

Matthew Borger
Darlene Brigance
Natalie Carter
Andrew Cordrey
Christopher Cowles
Nick DelDotto
Andrew Husband
Lindsay lezzi
Mike Mangan*
Tim Murphy
Eric Peoples
Cody Stafford
Paul Wolf

## SPECIAL EDUCATION

Laura Berkeihiser
Robert Brown
Stephanie Brown*
Kevin Brode
Bethany Clemson
Erin Curtis
Kim Edwards
Nick Eppinger
Megan Hilbolt*
Jennifer Houck
Sue Matz
WORLD LANGUAGE
Christine Baron
Bonnie Bergen-Borda
Yaneth Castro
Julie Hawkes
Joanna Johnson
Veronique Liska
Ryan Mark
Geoffrey Mills
Alison Quigley
Barbara Parris
Cindy Pisauro*
TECHNOLOGY \& ENGINEERING
Mike Berkeihiser*
Tom Bogusch
Steve Ortega
*Department Chair or Co-Chair
PURPOSE ..... 4
GRADUATION REQUIREMENTS ..... 4
CREDIT CALCULATIONS ..... 4
GRADE SCALE \& GPA CALCULATIONS ..... 4
IMPORTANT UPDATES FOR 2021-2022 ..... 5
COURSE SELECTION CONSIDERATIONS FOR ALL STUDENTS ..... 6
COURSE SELECTION CONSIDERATIONS FOR RISING 9TH GRADERS ..... 7
COURSE SELECTION TIMELINE \& PROCESS ..... 7
COURSE CHANGE OR WITHDRAW REQUESTS ..... 7
CHESTER COUNTY TECHNICAL COLLEGE HIGH SCHOOL ..... 8
INDEPENDENT STUDY ..... 8
NCAA ELIGIBILITY REQUIREMENTS ..... 8
CAREER AND COLLEGE READINESS PORTFOLIO ..... 9
COURSE LEVEL DESCRIPTIONS ..... 9
TERMINOLOGY ..... 10
ENGLISH DEPARTMENT ..... 12
SOCIAL STUDIES DEPARTMENT ..... 15
SCIENCE DEPARTMENT ..... 18
Science Department Flowchart ..... 21
MATH DEPARTMENT ..... 22
Math Department Flowchart ..... 26
HEALTH \& PE DEPARTMENT ..... 27
WORLD LANGUAGE DEPARTMENT ..... 28
ART DEPARTMENT ..... 32
BUSINESS APPLICATIONS ..... 33
FAMILY CONSUMER SCIENCES ..... 36
MUSIC DEPARTMENT ..... 37
TECHNOLOGY \& ENGINEERING DEPARTMENT ..... 39
ACADEMICALLY TALENTED ..... 43
SPECIAL EDUCATION ..... 43
COUNSELING CENTER ..... 43
DUAL ENROLLMENT ..... 44
CAREER \& TECHNICAL EDUCATION ..... 44
COURSE NUMBERS \& COURSE NAMES BY DEPARTMENT ..... 47
WEEKLY TIME COMMITMENT CHART ..... 50

## PURPOSE

The information provided in the UHS Course Selection Guide is essential for students and parents to understand the academic options and framework used at UHS, and to fully understand your role in the Course Selection process. This guide is designed to support students --together with teachers, counselors, and administration-- develop the best possible program in accordance with the students' interests, needs, and career goals. Please read each section carefully as it contains important information and updates to the course selection process. Selecting courses of study is a serious undertaking, and the courses students request have a direct impact on the courses offered the following school year, and ultimately on the master schedule.

## GRADUATION REQUIREMENTS

Each student must earn a minimum of 22 credits in grades 9 through 12 and demonstrate proficiency on the Algebra I Keystone Exam, Biology Keystone Exam, and Literature Keystone Exam. All courses have been aligned to the Pennsylvania Academic Standards.
Units of Credits Required per Department:
4 English
4 Social Studies
3 Mathematics
. 75 Physical Education
3 Science
. 50 Business Applications
6.25 Elective

## CREDIT CALCULATIONS

Credit is determined by the number of days a course meets per 6-day cycle and duration of the course.
With few exceptions, UHS offers:
1.0 credit for a course that meets $6 / 6$ days a cycle
.50 credit for a course that meets $6 / 6$ days a cycle for a semester
.50 credit for a course that meets $3 / 6$ days a cycle for the entire school year
.25 credit for a course that meets $3 / 6$ days a cycle for a semester
GRADE SCALE \& GPA CALCULATIONS

| A $+=97-100$ | B+ = 87-89 | $\mathrm{C}+=77-79$ | D+ = 67-69 | $\mathrm{F}=$ Below 60 |
| :---: | :---: | :---: | :---: | :---: |
| A- = 90-92 | B $=83-86$ | C = 73-76 | D $=63-66$ |  |
| A $=93-96$ | B- $=80-82$ | C- = 70-72 | D- = 60-62 |  |

Grade Point Average (GPA) calculation only includes credit from courses taken in grade levels 9-12. Any credit earned prior to 9th grade is not calculated in the cumulative GPA. GPA is based on a weighted system. AP and Honors level courses are weighted by adding quality points to the final grade. One quality point is added for AP Courses and .50 quality point is added for honors courses. To calculate a GPA, determine the quality points earned by multiplying the grade value for each course by the number of credits for that course. Add the quality points, and then divide the total quality points by the total number of credits. See the "UHS Student Handbook" for additional information regarding grading and GPA calculations.

| Academic | Honors | AP |
| :--- | :--- | :--- |
| $A+=4.3$ | $A+=4.8$ | $A+=5.3$ |
| $A=4.0$ | $A=4.5$ | $A=5.0$ |
| $A-=3.7$ | $A-=4.2$ | $A-=4.7$ |
| $B+=3.3$ | $B+=3.8$ | $B+=4.3$ |
| $B=3.0$ | $B=3.5$ | $B=4.0$ |
| $B-=2.7$ | $B-=3.2$ | $B-=3.7$ |
| $C+=2.3$ | $C+=2.8$ | $C+=3.3$ |
| $C=2.0$ | $C=2.5$ | $C=3.0$ |
| $C-=1.7$ | $C-=2.2$ | $C-=2.7$ |
| $D+=1.3$ | $D+=1.8$ | $D+=2.3$ |
| $D=1.0$ | $D=1.5$ | $D=2.0$ |
| $D-=.7$ | $D-=1.2$ | $D-=1.7$ |
| $F=0$ | $F=0$ | $F=0$ |

## Curricular Updates and Changes:

- Previous Grade Prerequisites are now referred to as Departmental Grade Recommendations- See Course Selection Consideration section for additional details.
- Grade Prerequisite Waiver Agreements are no longer required for students who do not meet the grade prerequisite(s). The course prerequisite requirement is still required and noted in bold with the individual course descriptions.
- The following courses have been changed from an academic level to an honors level:
- Art III: Advanced Methods Honors
- Art 3D III Sculpture and Design Honors
- Art IV: Portfolio Honors
- Chorale Honors
- Symphonic Band Honors
- New Course Offerings:
- Yoga II
- Welding \& Metal Fabrication (TCHS)
- Online Learning requires students to take the course asynchronously through the use of the Canvas Management system. Students will be able to connect with the teacher during the assigned period or may use Zoom to schedule time for questions and extra help. With six days of online learning per cycle, the course will provide flexibility in pace of instruction. Skills in organization of materials, use of technology, and management of time are essential.
- Accounting I Online
- English 9 Honors Online
- Environmental Science Online
- Sports and Entertainment Marketing Online
- UHS continues to offer courses in a blended learning format that combines traditional and online instruction to develop personalized learning. With three days in the classroom and three days online, blended learning uniquely provides flexibility in the place, pace, and path of instruction. The course is matched with a traditional course in level of rigor and investment of time. Skills in organization of materials, use of technology, and management of time are essential. The three-day online learning days allow the student and teacher an important opportunity to work collaboratively. The courses being offered in a blended format include:

| $\circ$ | Accounting 1 | $\circ$ | Intro to Engineering Design Honors |
| :--- | :--- | :--- | :--- |
| $\circ$ | Algebra II Accelerated (new) | $\circ$ | Personal Finance |
| $\circ$ | Algebra II Honors (new) | $\circ$ | Principles of Engineering Honors (new) |
| $\circ$ | AP Computer Science Principles (new) | $\circ$ | Spanish II Honors (new) |
| $\circ$ | AP Statistics | $\circ$ | Spanish IV Academic (new) |
| $\circ$ | AP World History (new) | $\circ$ | Spanish V Academic (new) |
| $\circ$ | Biology Honors | $\circ$ | Sports \& Entertainment Marketing (new) |
| $\circ$ | Civics \& Econ 21st Century Academic (new) | $\circ$ | Sports Science (new) |
| $\circ$ | English 11 Honors | $\circ$ | Trig \& Analysis Accelerated (new) |
| $\circ$ | English 12 Honors (new) | $\circ$ | Western Civilization Honors (new) |
| $\circ$ | Geometry Honors | $\circ$ | World History Academic |
| $\circ$ | German IV Honors (new) |  |  |

## COURSE SELECTION CONSIDERATIONS FOR ALL STUDENTS

Careful course planning is essential when trying to develop the best possible program for each student. Students are expected to read through the content of the course selection guide prior to submitting course requests. Particular attention should be made to all details of a course, including the course description, course prerequisite requirement(s), and departmental grade recommendations. Selecting a course of study is a serious undertaking and students are more successful when they carefully review the course offerings, communicate with parents, teachers, and school counselors with any questions, and consider priorities and extracurricular commitments which impact their daily lives. Additional considerations for students may include:

- Particular academic strengths, weaknesses, interests.
- Past academic performance.
- Demonstrated work ethic and future educational and vocational goals.
- Realistic evaluation of time demands from commitments and extracurricular activities.

The Departmental Grade Recommendations are based on historical data and are predictive of a student's success; they suggest the minimum level of proficiency expected for the requested course. Selection of a course and the course level should be in the overall best interest of a student's academic and personal well being. Extreme caution should be used if a student considers a course in which they narrowly meet the Departmental Grade Recommendation.

During the course selection process, students have an opportunity to discuss teacher recommendations with teachers in various departments. Teacher recommendations have been made for courses that are sequential and have course prerequisite requirement(s) and/or departmental grade recommendations. Teacher recommendations are based upon student classroom performance to date and are meant to serve as a guide for students when making course requests for the 2021-2022 school year. A teacher recommends placement in a particular course when the student's current performance indicates that the student has the highest chance to be successful. Teachers give serious consideration to these recommendations and criteria including, but not limited to:

- The student's performance in previous courses.
- The student's attitude toward the work necessary.
- $\quad$ The required skills for the course.
- The student's performance in other "predictors" of success.
- The departmental grade recommendation for final placement in the proposed courses.
- The course prerequisite requirements.

Teacher recommendations provide valuable feedback and students are strongly encouraged to speak with the teacher if the course recommendation or level differs from the student's intended course request. Final course placements are based on completion of course prerequisites. Please note that all course offerings are subject to cancellation or closing of sections due to staffing, facilities, and enrollment. Students have the option to select alternative electives during the course selection process. When requested, electives cannot be scheduled due to a conflict or cancellation of a course; students will be enrolled in alternative elective choices.

Many students elect to have a study hall during the day, and it serves a different purpose for each student. Study halls provide an opportunity during the day that is different from the traditional time spent on learning in the classroom. Students can work on homework, seek help from teachers, or use the time to de-stress. Students are strongly encouraged to use the Weekly Time Commitment Chart to evaluate and properly plan for a schedule that realistically accounts for their academic, extracurricular, and personal needs and goals.

Students should plan accordingly during the course request process if they want a study hall in their schedule. Requesting a study hall during course selection ensures it will be accounted for while the master schedule and individual schedules are being created. Every student must request between 5.5 and 7 credits when submitting course requests. Study halls do not earn credit, but the time being requested must be included when calculating the total credits being requested. For example, a student who requests Study Hall Fall $6 / 6$ days a cycle and Study Hall Spring $6 / 6$ days a cycle should only request 6 credits.

| Period | Time |
| :---: | :---: |
| 1 | $8: 00-8: 49$ |
| 2 | $8: 53-9: 38$ |
| 3 | $9: 42-10: 27$ |
| $(45)$ Lunch \& Learn | $10: 27-11: 27$ |
| 6 | $11: 31-12: 16$ |
| 7 | $12: 20-1: 05$ |
| 8 | $1: 09-1: 54$ |
| 9 | $1: 58-2: 43$ |

## COURSE SELECTION CONSIDERATIONS FOR RISING 9TH GRADERS

- Students are required to take Health/PE in 9th grade.
- High school credit will be granted only for courses passed while the student is enrolled in classes taken at the high school.
- Courses taken at the middle school may not be repeated at UHS for credit unless the course prerequisite to advance was not met.
- Classes should be scheduled according to each student's abilities. Selection of honors level courses should be made with teacher and counselor input. Course prerequisite requirements must be met for entrance into courses.
- If a student has received reading support in 6th, 7th, or 8th grade, consider taking English First Level and postpone starting a world language.
- Contact your counselor at the Middle School (610-347-2000) with course selection questions.


## COURSE SELECTION TIMELINE \& PROCESS

## February 10 Course Selection Night for Rising 9th Grade Students and Parents

Representatives from all UHS departments and the Technical College High School (TCHS) will be presenting information about their programming. This event will be held virtually and information will be sent to families.

## February 11-February 26 Students Complete Online Course Requests in PowerSchool

Students should use this time to evaluate and discuss course selection options and considerations with teachers.

## April 13-21 ADD/DROP Course Requests in PowerSchool

Students can edit requests directly in Powerschool- select "Class Registration" and the Pencil icon for the course you want to edit. After April 13, course requests can be viewed by selecting Class Registration- View Future Course Requests. Students should review course requests relative to current academic performance, while considering departmental grade recommendations. All edits to course selection must be completed in Powerschool by April 21 at 3pm. This is the last opportunity for students to add or drop a course from their course requests, with the exception of course level changes. Examples of edits students can make between April 13-April 21:

- Drop Photography - add Foods I to course request
- Add Engineering I Survey to course request
- Change from English 9 Academic to English 9 Honors


## June 16-June 25: Request Course Level Changes

Students MUST meet course prerequisite requirements at the end of this school year to be eligible for certain courses. Students are responsible for checking historical coursework to ensure they qualify for their current course requests. Students who do not meet the course prerequisite requirements will be placed into the course for which they qualify.

Example of course level changes include:

- English 9 Honors to English 9 Academic
- Algebra II Honors to Algebra II Accelerated
- English 9 Academic to English 9 Honors

A Request for Course Level Change link will be on the high school website for students to change the level of a course.

## COURSE CHANGE OR WITHDRAW REQUESTS

Students' course requests have a direct impact on the courses offered, staff placement and availability, and the overall master schedule. Therefore, students are committed to course requests as of June $\mathbf{2 5}$. Students are encouraged to use the time built into the scheduling process to carefully consider their course requests as these requests are seen as a commitment to the course for the duration of the course. Any course request change after June $\mathbf{2 5}$ must be made directly to an administrator. Schedule changes are restricted to incorrect academic placements or previous course failures; for example:

- Student is a senior not scheduled in a course needed for graduation.
- Student has already earned credit for a course in which he/she is currently scheduled.
- Student has not met the course prerequisite requirements for a class listed on his/her schedule.
- Student does not have a full schedule.
- The class listed was not requested by the student.

Selection of a course and the course level should be in the overall best interest of a student's academic and personal well being. Extreme caution should be used if a student considers a course in which they narrowly meet the Departmental Grade Recommendation. The Departmental Grade Recommendations are based on historical data and are predictive of a student's success; they suggest the minimum level of proficiency expected for the requested course.

Any course request change after June $\mathbf{2 5}$ must be made directly to an administrator. Prior to consideration of course level change or withdrawal, an administrator will verify the student's active engagement in the class, completion of homework and additional practice as necessary, consultation with the teacher, and request for additional support through extra help or tutoring. Any change to a course can result in additional and unforeseen schedule changes. If a student is approved by administration for a course level transfer, students will be offered a course based on availability, which may differ from the level or option requested. Grades earned in the course marking period will transfer to the new course and be used in the calculation of the final grade for the new course.

Failure to complete summer work is not a reason to change a student's schedule. Students are expected to complete assigned summer work for courses selected and it will contribute to a student's course grades. Summer assignments are listed on the UHS website. Any approval to withdraw from a course after the 20th day of the course will be recorded on the official transcript as a WP (withdraw pass) or WF(withdraw fail), contingent upon the percentage grade when the student is withdrawn from the course.

CHESTER COUNTY TECHNICAL COLLEGE HIGH SCHOOL
The Chester County Technical College High School is a joint venture of the Chester County Intermediate Unit and Delaware County Community College. The Chester County Technical College High School offers career and technical programs for high school students; Delaware County Community College offers associate degree programs to college students. Students spend a half day at Unionville High School and a half day at the Technical College High School. The Technical College High School is located in Penn Township and serves high school students residing in Avon Grove, Kennett-Consolidated, Oxford and Unionville-Chadds Ford School Districts. As a public high school, the Technical College High School is free to high school students residing in these public school districts. Upon high school graduation, students are able to attend 2 -year and 4 -year colleges.

## INDEPENDENT STUDY

Independent Study is designed to meet the educational needs of students who are interested in pursuing a course of study beyond the requirements of high school graduation and UHS course offerings. At the high school level, Independent Study is reserved for students who have demonstrated exceptional competence within a given discipline. Students who are interested in undertaking Independent Study must complete an application available from the Counseling Center.

- Independent Study courses are designed as semester courses. Only one Independent Study may be taken for credit by a student each semester, and the maximum value for each Independent Study is .50 credit. A student may earn up to 1 total credit through Independent Study in a school year.
- No more than two credits may be earned toward graduation requirements by any one student through Independent Study during grades 9-12.
- Independent Study courses cannot be substituted for required courses.
- The Independent Study Mentor must be a certified teacher approved by the Principal. The teacher's certification must be in the content area that relates to the topic of the Independent Study.
- The course will appear on the schedule and transcript as an Independent Study - Course Department.
- If the course is not completed by the completion date, an INC will be issued. The grade will change to a letter grade of " F " two weeks after the completion date noted unless your teacher grants an extension due to extenuating circumstances.
- Independent Study applications must be approved before work on the contract may commence. The start date of the course is determined by the enrollment date. Any withdrawal from the course after the 20th day from enrollment will be marked as a WP/WF. See your school counselor for more information.


## NCAA ELIGIBILITY REQUIREMENTS

In recognition of its responsibility to ensure that student-athletes have every chance to get an education, the National Collegiate Athletic Association (NCAA) has implemented a series of increasingly strict academic standards. A student who wants to compete in either Division I or II sports must complete 16 core academic courses (ten of which must be completed by the end of junior year) and achieve a core-course grade point average and SAT or ACT scores which meet a qualifier index standard as established by the NCAA. The NCAA Eligibility Center will evaluate your academic and athletic experiences based on information you provide through your eligibilitycenter.org account.

## How and when to register with the NCAA Eligibility Center?

Students who want to be an athlete at either a Division I or II school must register with the NCAA Eligibility Center. Students can register online at: https://web3.ncaa.org/ecwr3/. Students should complete the registration process by the end of junior year in high school. The UHS Counseling Center will submit transcripts to the NCAA Eligibility Center for juniors who are registered with
the NCAA as of the last day of that school year. Juniors who have not registered with the NCAA Eligibility Center as of the last day of school must make a request to the UHS Counseling Center directly.

The current list of UHS courses that have been approved by the NCAA can be found on the eligibilitycenter.org website. Click on the Help? link and select "Resources" from the options. Use the CEEB Code 394955 to view the current list. The NCAA Eligibility Center also offers a profile page for students planning to compete at Division III, or students who don't yet know where they want to compete. Your eligibilitycenter.org account or profile page contains all the information you need to begin your NCAA experience. If you have any questions or need more information, visit the NCAA website for the Guide for the College-Bound Student-Athlete or see your School Counselor.

## CAREER AND COLLEGE READINESS PORTFOLIO

To help ensure that all students in Pennsylvania are on track for meaningful postsecondary engagement and success, the PA Dept. of Ed has included a measure of students' career exploration, preparation, and readiness. UHS has identified a wide variety of curricular and extracurricular opportunities that students can complete throughout grades 9-11 and incorporate into the Career and College Readiness Portfolio. Students will use Naviance to store individual artifacts. The Career and College Readiness Portfolio- Artifact Checklist is available for viewing on the UHS website, in Naviance, and in the Counseling Center.

## COURSE LEVEL DESCRIPTIONS

Advanced Placement courses provide students with the opportunity to challenge themselves at the highest level. AP courses follow a carefully constructed syllabus that is prescribed by the College Board. Students who complete this course work can opt to take a national exam or complete national portfolio requirements and potentially earn college credits. The curriculum and assessment are based on the level of thinking and the depth of knowledge that is expected from equivalent college courses. All AP science courses include a double lab period and require 8 periods out of a 6-day cycle. Homework expectations: In general, an appropriately placed student who meets the prerequisites for an AP course can expect four to five hours of homework a week per class. Students must carefully consider the increase in workload and level of independence required of an AP student, and realistically account for the time needed to manage the homework and preparation.

## Characteristics of AP student:

- Exceptional level of motivation and desire to learn and be challenged by the content material
- Willingness to delve deeply into content, research in a scholarly fashion, and learn in a college-like, inquiry-based manner
- Prepared to undertake a very demanding workload that involves extensive independent reading, writing, problem solving, and critical thinking
- Motivated to contribute intellectually and creatively
- Demonstrate independence on a consistent basis and learn to think conceptually

Expectations of a student in an AP course:

- Develops higher-order thinking skills while using an accelerated pace and enriched content
- Contributes intellectually and creatively
- Exhibits a willingness to accept the rigorous and time consuming expectations of the curriculum, including intensive AP summer work requirements (a change of schedule will not be granted due to a student's failure to complete summer work) and completes work at a college level of effort for the duration of the course
- Prepares for the increase in workload and level of independence required of an AP student by realistically accounting for the time commitment necessary to manage all aspects of the course

Honors level courses are highly rigorous and provide a high level of difficulty. Selection of an honors level course(s) must be made with great care due to a high level of rigorous and time consuming expectations. A considerable amount of outside work is expected. Students must exhibit a willingness to accept the challenge of a rigorous academic curriculum. Homework expectations: In general, an appropriately placed student who meets the prerequisites for an Honors level course can expect three to four hours of homework a week per class.

## Characteristics and expectations of an honors level student:

- Demonstrates independence and will learn to think conceptually
- Demonstrates a high level of intellectual curiosity and is motivated and able to work independently
- Committed to completing outside research, nightly assignments, and to developing and discussing material in the class with depth and understanding
- Desires to develop cognitive thought and expression and a deeper examination of concepts with an emphasis on analysis, synthesis, and evaluation will take place

Accelerated level courses (previously referred to as Traditional in Math) are academic, college-preparatory classes that follow a demanding curriculum with an emphasis on serious academic studies to help students progress toward meeting the challenges of competitive college work. Accelerated courses move at an extremely quick pace and students must be motivated and able to work
independently. Homework expectations: In general, an appropriately placed student who meets the prerequisites for an Accelerated level course can expect two to three of homework a week per class.

Academic level courses are college-preparatory courses designed for a student who plans to continue his/her formal education beyond high school. Students must exhibit a willingness to accept the challenge of a rigorous academic curriculum. Students will engage in a variety of activities to improve critical thinking skills. Outside research, homework assignments, and independent projects are frequent requirements in Academic courses. Homework expectations: In general, an appropriately placed student who meets the prerequisites in an Academic level course can expect two to three of homework a week per class.

First Level courses follow a challenging curriculum to prepare students for college and/or the workplace. Students enrolled in First Level courses learn through guided instruction that involves reading, writing, problem solving, and development of critical thinking skills. First level courses include strong thinking and study skill components, are aligned to the Pennsylvania Academic Standards and are appropriate for those students who need more intense assistance in particular courses. The pace of instruction is adjusted to meet the needs of the students. Critical thinking skills are emphasized as is the application of skills and strategies. Homework expectations: In general, an appropriately placed student who meets the prerequisites in a First Level course should expect approximately one to two hours of homework a week.

## TERMINOLOGY

Alternative Electives are chosen if a student's first choice of electives are not available due to enrollment and/or scheduling conflicts and will be looked at by school counselors and administration as a secondary option to place into a student's schedule.

Blended Learning combines traditional and online instruction to develop personalized learning. With three days in the classroom and three days online, blended learning uniquely provides flexibility in the place, pace, and path of instruction. The course is matched with a traditional course in level of rigor and investment of time. Skills in organization of materials, use of technology, and management of time are essential. The three day online learning days allow the student and teacher an important opportunity to work collaboratively. Blended courses earn the same credit amount as the equivalent course taught in the traditional format and the credit maximum per school year of 7 credits still applies.

Course Prerequisite Requirements refers to previous course completion necessary to advance in sequential coursework. Some courses have co-curricular course prerequisite requirements (e.g. some science courses have both math and science course prerequisite requirements).

Credits are earned upon successful completion (passing grade) of a course and applied towards the 22 credit minimum needed to graduate. A full-year course earns 1.0 credit (meets $6 / 6$ days all year), a half-year course earns .5 credit (meets $3 / 6$ days all year OR $6 / 6$ days half of the year) and a course meeting $3 / 6$ days half of the year earns .25 credits.

Departmental Grade Recommendation(s) are based on historical data and they are intended to guide students when selecting course levels. Please note the departmental grade recommendations are considered the minimum final grade a student needs to be prepared for a course; therefore, students narrowly meeting the grade recommendations may find the course particularly challenging.

Electives: Students are required to earn 22 total credits to graduate, 6.25 of which must be elective credits. Once students fulfill their core requirements in a given department, any additional courses taken within that department count as an elective credit. Additionally, any course in a language, art, technology, computer, music, family and consumer science, etc. are automatically defined as elective courses.

GPA Scale: UHS Grade Point Average (GPA) calculations are based on a 4.0 weighted system. AP and Honors Level courses are weighted by adding quality points based on the final grade. One quality point is added for AP courses and .50 quality point is added for Honors courses. See UHS Student Handbook for Grade Scale distribution.

Lab Fees: Several courses have lab fees, which are noted in the course description. Any student concerned about the cost of lab fees should see their school counselor.

Online Learning: Requires students to take the course asynchronously through the use of the Canvas Learning Management system. Students will be able to connect with their teacher during the assigned period or may use Zoom to schedule time for
questions and extra help. With six days of online learning per cycle, the course will provide flexibility in pace of instruction. Skills in organization of materials, use of technology, and management of time are essential.

Survey: is a scheduling term used to distinguish the duration of a course. Survey courses are typically a semester and provide students with compacted versions of the full year course. For example, Art 3D Design I is a full-year course and Art 3D Survey is a semester course. The intent of survey courses is to cover selected topics from a broader field of knowledge as an introduction to the area of study. Students seeking an in-depth exploration of the subject matter should consider year-long courses.

Teacher Recommendations: During the course selection process, students have an opportunity to discuss teacher recommendations with teachers in various departments. Teacher recommendations have been made for courses that are sequential and have course prerequisite requirement(s) and/or departmental grade recommendations. Teacher recommendations are based upon student classroom performance to date and are meant to serve as a guide for students when making course requests for the 2021-2022 school year. A teacher recommends placement in a particular course when the student's current performance indicates that the student has the highest chance to be successful. Teachers give serious consideration to these recommendations and criteria including, but not limited to:

- The student's performance in previous courses.
- The student's attitude toward the work necessary.
- The required skills for the course.
- The student's performance in other "predictors" of success.
- The departmental grade recommendation for final placement in the proposed courses.
- The course prerequisite requirements.

Teacher recommendations provide valuable feedback and students are strongly encouraged to speak with the teacher if the course recommendation or level differs from the student's intended course request.

Course Name
Course Level
Credit
COURSE DESCRIPTIONS
\# days/cycle
Term Length
*NCAA Approved
English 9 First Level
ENG1001
1 credit
6/6 days a cycle
Year
English 9 Academic
ENG1002*
1 credit
6/6 days a cycle
Year
Cors

English 9 Honors
ENG1003*
1 credit
6/6 days a cycle
Year

## English 9 Honors

Online
ENG1003O*
1 credit
6/6 days a cycle
Year

English 9 First Level includes the study and application of the PA English standards for Reading, Writing, Listening, and Speaking. This course emphasizes scaffolding skills appropriately for students and improving autonomy in learning. Students are challenged to demonstrate skills in a variety of written responses: informational, persuasive, and creative assignments. Students are responsible for practicing skills, completing assignments, participating in class, and learning to research responsibly.

English 9 Academic focuses on a variety of literary genres, while analyzing thematic and literal meanings as well as literary devices. This course emphasizes instruction and practice in oral and written composition and also improvement of language skills. Students are challenged to demonstrate skills in a variety of written responses: informational, persuasive, and creative assignments. Basic grammar skills taught in eighth grade are the expected knowledge base. Additional skills will be taught and reinforced. Students are responsible for retaining skills, completing assignments, participating in class, and learning to use MLA format.
English 9 Honors is a reading, writing, and grammar intensive course designed for the motivated freshman who has demonstrated a firm working knowledge of the grammar skills taught in 8th grade. Areas of study include extensive investigation of literary devices as well as author motivation and historical context. Students are expected to research, to analyze and to interpret each piece of literature, and to come to class ready to participate in classroom discussions. Students will continue to learn MLA format. Writing expository/informational and persuasive essays is the main focus; students are expected to include literary and research-based evidence in their essays.

English 9 Honors is a reading, writing, and grammar intensive course designed for the motivated freshman who has demonstrated a firm working knowledge of the grammar skills taught in 8th grade. Areas of study include extensive investigation of literary devices as well as author motivation and historical context. Students are expected to research, to analyze and to interpret each piece of literature, and to come to class ready to participate in classroom discussions. Students will continue to learn MLA format. Writing expository/informational and persuasive essays is the main focus; students are expected


ENG2001
1 credit
6/6 days a cycle
Year
(

English 10 Academic
ENG2002*
1 credit
6/6 days a cycle
Year

English 10 Honors
ENG2003*
1 credit
6/6 days a cycle
Year

English 10 First Level English 10 First Level builds on the language arts skills learned in 9th grade. Instruction is designed to to include literary and research-based evidence in their essays.
Online learning requires students to take the course asynchronously through the use of the Canvas Learning Management system. Students will be able to connect with the teacher during the assigned period or may use Zoom to schedule time for questions and extra help. With six days of online learning per cycle, the course will provide flexibility in pace of instruction. Skills in organization of materials, use of technology, and management of time are essential.
reinforce critical thinking skills and improve students ability to organize, learn, and recall information. The curriculum includes various genres of World Literature including poetry, short stories and novels. Students will study grammatical concepts and vocabulary, developing writing skills that can be applied to post-graduate endeavors. The PA state standards will be delivered through the examination of various types of literature from around the world. Students will take the Keystone Literature Exam at the conclusion of this course.
English 10 Academic builds on the foundation established in the $9^{\text {th }}$ grade curriculum, which will explore common themes across various genres of World Literature. The curriculum continues to focus on reading, writing and word study in a variety of structured situations. A working knowledge of grammar skills is required and will be formally reinforced. Students are expected to show increasing ability to think independently and to express themselves in oral presentation and written essays. Reading comprehension and analysis are assessed throughout the school year. PA state standards will be reinforced, and students will take the Keystone Literature exam at the conclusion of this course.
English 10 Honors builds on the language arts experience of English 9 Honors, with greater breadth and depth. The course focuses on the connection between literature and culture. This course is for the motivated student who reads critically, has a firm working knowledge of grammar skills, demonstrates willingness toward independent thinking and creative expression, understands and makes use of the writing process, and demonstrates competent use of research skills, which will be expanded. PA state standards will be reinforced, and students will take the Keystone Literature exam at the conclusion of this course.

Depts. Grade Recommendation \& Course Prerequisite Requirement(s) Minimum course prerequisite requirement(s) course/level in bold

60\% in 8th grade English

60\% in 8th grade English
$80 \%$ in 8th grade Honors
English or Honors Creative
Writing or $90 \%$ in 8th grade
Core English

80\% in 8th grade Honors
English or Honors Creative
Writing or $90 \%$ in 8 th grade

## Core English

60\% in English 9

60\% in English 9 Academic or 90\% in English 9 First Level

80\% in English 9 Honors or 90\% in English 9 Academic

| English 11 First Level <br> ENG3001 <br> 1 credit <br> 6/6 days a cycle <br> Year | The English 11 First Level course, based on American Literature, builds on the learning and skills developed in ninth and tenth grades. In the study of various forms of literature, students experience the people, places, ideas, and language of America, and practice grammatical concepts, vocabulary, and writing skills. Those studies will be done through an instructional emphasis on the Core Standards, and students' goal is to become proficient on the Keystone test if not yet mastered. | 60\% in English 10 |
| :---: | :---: | :---: |
| American Literature 11 Academic ENG3062* 1 credit 6/6 days a cycle Year | American Voices: Study of Literature will be founded on literary analysis skills and influential literature from a variety of American voices, such as African, Asian, Female, Hispanic and Native authors. Rhetorical modes of writing will supplement the course and will be taught through various pieces of the American canon. The grammar component will be geared toward transfer of style and conventions into both written and standardized assessments. Students who want a traditional English course with a balance of reading, writing, and speaking skills should feel comfortable enrolling this course. | 60\% in English 10 Academic or 90\% in English 10 First-Level |
| American <br> Composition 11 <br> Academic <br> ENG3072* <br> 1 credit <br> 6/6 days a cycle Year | American Voices: Study of Composition will be organized by rhetorical modes of writing, such as argumentation, exemplification, narration and research. These types of writing will drive the course and will be taught through various pieces of the American canon. The grammar component will be geared toward transfer of style and conventions into both written and standardized assessments. Both students who already enjoy writing and those looking to improve their writing skills should feel comfortable enrolling in this course. | 60\% in English 10 Academic or 90\% in English 10 First Level |
| English 11 Honors ENG3003* <br> 1 credit 6/6 days a cycle Year | Honors English 11 is a reading and writing intensive course for the highly motivated student willing to assume a rigorous and challenging study of American Literature and culture. The literature is arranged and explored in order of historical events. Appropriately placed students demonstrate independent thinking skills, a solid application of grammar usage, and strong reading comprehension. Creative expression is greatly encouraged. Evaluations are based on lecture, small and large group activities and presentations, individual assignments, readings, quizzes, essays, and tests. | 80\% in English 10 Honors or 90\% English 10 Academic |
| English 11 Honors Blended ENG3003B* 1 credit 6/6 days a cycle Year | Honors English 11 Blended is a reading and writing intensive course for the highly motivated student willing to assume a rigorous and challenging study of American Literature and culture. The literature is arranged and explored in order of historical events. Appropriately placed students demonstrate independent thinking skills, a solid application of grammar usage, and strong reading comprehension. Creative expression is greatly encouraged. Evaluations are based on lecture, small and large group activities and presentations, individual assignments, readings, quizzes, essays, and tests. Blended learning combines traditional and online instruction to develop personalized learning. With three days in the classroom and three days online, blended learning uniquely provides flexibility in the place, pace, and path of instruction. The course is matched with a traditional course in level of rigor and investment of time. Skills in organization of materials, use of technology, and management of time are essential. The three day online learning days allow the student and teacher an important opportunity to work collaboratively. | 80\% in English 10 Honors or 90\% English 10 Academic |
| AP English Language \& Composition ENG3004* 1 credit 6/6 days a cycle Year | AP English Language and Composition is a college-level course that facilitates higher-level reading and writing skills. Students work in a variety of disciplines and rhetorical contexts, studying prescriptive grammar concepts, writing in the four rhetorical modes of discourse, analyzing professional writing models, and producing essays informed by these models. Students practice stylistic techniques that are the result of careful syntactical choices and precise diction. The aim of the course is to develop college-level reading and writing skills adaptable to a variety of occasions and needs. Students are expected to take the AP Examination in May. | 85\% in English 10 Honors or 93\% in English 10 Academic |
| English 12 First Level ENG4001 <br> 1 credit 6/6 days a cycle Year | English 12 First Level provides a comprehensive reading and writing study. Students will work with approximately one novel per marking period to improve critical reading skills, writing analytical essays and a research paper. Integrated into this course are projects requiring group work, independent work, and practical application. Thinking skills for this level are also incorporated to ensure greater success and skill development for the students. The course is designed to prepare both students planning to immediately join the workforce and those intending to go to college. | 60\% in English 11 |
| Comparative Lit 12 <br> Academic <br> ENG4022* <br> 1 credit <br> 6/6 days a cycle Year | Comparative Literature 12 Academic will examine the storytelling forms both visual and written by finding parallels between classic British literature and modern film. Students will utilize practice and implement various storytelling forms through writing and technology while utilizing mentor texts and films.Students will develop research and analytical skills by examining these texts and films, making connections between written and visual form, and evaluating the effects artists decisions have on storytelling, theme, and meaning. Students who want to analyze both written texts and film should feel comfortable enrolling in this course. | 60\% in English 11 Academic or 90\% in English 11 First-Level |
| Conflict Literature 12 Academic <br> ENG4032* <br> 1 credit <br> 6/6 days a cycle Year | Conflict Literature 12 Academic explores how literature is an agent of social change and the fundamental voice of society that expresses the human condition. It reflects the world, and in doing so, affects its development. However, most importantly, literature gives power to the individuals within the masses and a voice to be heard. Students will examine and analyze multiple fiction and nonfiction texts, including classic British literature and modern writing, to understand the basic dynamics of literature, society, and power. In addition, students will integrate research and public speaking skills, along with rhetorical devices, in projects and presentations that demonstrate personal, social, and civic awareness for the purpose of persuading an audience. Students who want a traditional English course with a balance of reading, writing, and speaking skills should feel comfortable enrolling in this course. | 60\% in English 11 Academic or 90\% in English 11 First-Level |


| English 12 Honors <br> ENG4003* <br> 1 credit <br> 6/6 days a cycle <br> Year | English 12 Honors is a reading and writing intensive course designed for the highly motivated senior willing to assume a rigorous and challenging study of American, British, and World literature. This course will examine works of the imagination--epic poems, novels, short stories, plays, and nonfiction essays. In this course students will, through extensive research and close literary analysis, explore ideas and formulate assertions. Each semester, students will complete essays and creative works. In addition, students will give oral presentations and write research papers. Honors English 12 gives students a deeper understanding of complex aspects of literature and the English language and its relevance to contemporary issues. | 70\% in AP English Lang \& Comp or 80\% in Eng 11 Honors or 90\% in English 11 Academic |
| :---: | :---: | :---: |
| English 12 Honors <br> Blended <br> ENG4003B* <br> 1 credit 6/6 days a cycle Year | English 12 Honors is a reading and writing intensive course designed for the highly motivated senior willing to assume a rigorous and challenging study of American, British, and World literature. This course will examine works of the imagination--epic poems, novels, short stories, plays, and nonfiction essays. In this course students will, through extensive research and close literary analysis, explore ideas and formulate assertions. Each semester, students will complete essays and creative works. In addition, students will give oral presentations and write research papers. Honors English 12 gives students a deeper understanding of complex aspects of literature and the English language and its relevance to contemporary issues. <br> Blended learning combines traditional and online instruction to develop personalized learning. With three days in the classroom and three days online, blended learning uniquely provides flexibility in the place, pace, and path of instruction. The course is matched with a traditional course in level of rigor and investment of time. Skills in organization of materials, use of technology, and management of time are essential. The three day online learning days allow the student and teacher an important opportunity to work collaboratively. | 70\% in AP English Lang \& Comp or 80\% in Eng 11 Honors or 90\% in English 11 Academic |
| AP English Literature \& Composition ENG4004* <br> 1 credit 6/6 days a cycle Year | AP English Literature and Composition provides an intensive and rigorous study of works of literary merit across various genres and time periods. Through this course, students will learn the skills of literary analysis and critical writing, extending their awareness and appreciation of language and structure. Harkness discussion, Socratic seminar, analytical writing, oral presentations, and deep reading are at the core of the course. Students will also complete the requisite senior research paper during the year. Students gain a working knowledge of literary terminology, scholarly criticism, advanced vocabulary, and mature writing skills. The course is open to students who are willing to engage in the scholarship, reading, conversing, and writing the class entails. Students are expected to take the AP English Literature Examination in May. | 80\% in AP Lang. \& Comp or 85\% English 11 Honors or 93\% in English 11 Academic |
| Creative Writing ENG2012* <br> . 5 credit 6/6 days a cycle Semester 10th,11th,12th | This standard-based writing course is designed to improve the student's writing ability. Through a variety of writing assignments including short stories, poetry, and/or creative nonfiction, students will learn to express their ideas with greater clarity. Writing is shared with the class and peer editing is emphasized. Class discussion is geared to sharpen listening skills and critical thinking. Writing includes journals, narratives, editorials, short stories, and a children's story. |  |
| Public Speaking <br> ENG2022* <br> . 5 credit <br> 6/6 days a cycle <br> Semester 10th,11th,12th | Public Speaking focuses on delivery methods such as eye contact, voice, and body language in order to deliver a variety of speeches. When preparing for informative, persuasive, and entertaining speeches, students will practice the skills of organizing, developing, introducing, and concluding ideas. Practice will be focused on public speaking skills that are specific and necessary for a variety of different settings. |  |

## SOCIAL STUDIES DEPARTMENT

Department Chair: Mike Mangan

| Social Studies Department Curricular Sequence |  |  |
| :---: | :---: | :---: |
| 9th= Western | Civilization 10th $=$ World History 11 th= US History | 12th= Civics/Government |
| Course Name Course Level Credit \# days/cycle Term Length *NCAA Approved | COURSE DESCRIPTIONS | Depts. Grade Recommendation \& Course Prerequisite Requirement(s) Minimum course prerequisite requirement(s) course/level in bold |
| Western Civilization <br> First Level <br> SS1001 <br> 1 credit <br> 6/6 days a cycle <br> Year | Western Civilization focuses on the development of traditions, values and cultures associated with major historical topics. This "Survey of History" course covers Greece, Rome, Middle Ages, Renaissance and Reformation, Absolutism, Enlightenment, French Revolution, Industrial Revolution, Nationalism, Imperialism, and WWI. Each unit utilizes a variety of activities that require thinking skills ranging from recognition, recall, comprehension, and organization of facts and ideas. The pace of this course is specifically designed to meet students' needs. | 60\% in 8th grade Social Studies |
| Western Civilization <br> Academic <br> SS1002* <br> 1 credit <br> 6/6 days a cycle Year | Western Civilization Academic focuses on the development of traditions, values and cultures associated with major historical topics. This "Survey of History" course covers Greece, Rome, Middle Ages, Renaissance and Reformation, Absolutism, Enlightenment, French Revolution, Industrial Revolution, Nationalism, Imperialism, and WWI. Each unit utilizes a variety of activities that require thinking skills ranging from recognition, recall, comprehension, and organization of facts and ideas. | 60\% in 8th grade Social Studies |
| Western Civilization Honors SS1003* 1 credit 6/6 days a cycle Year | Western Civilization Honors focuses on the development of Western Civilization including the traditions, values and cultures associated with major historical topics. This Survey of History covers: Greece, Rome, Middle Ages, Renaissance and Reformation, Absolutism, Enlightenment, French Revolution, Industrial Revolution, Nationalism, Imperialism, and WWI. Students will be challenged in a variety of ways and will be required to use higher level, critical thinking skills and strategies including, problem solving, synthesis, and evaluation. Superior reading comprehension and strong writing skills are necessary for students' success in this course. | $90 \%$ in Honors Social Studies or $93 \%$ in Core Social Studies or 90\% in Geography |
| Western Civilization Honors Blended SS1003B* 1 credit 6/6 days a cycle Year | Western Civilization Honors focuses on the development of Western Civilization including the traditions, values and cultures associated with major historical topics. This Survey of History covers: Greece, Rome, Middle Ages, Renaissance and Reformation, Absolutism, Enlightenment, French Revolution, Industrial Revolution, Nationalism, Imperialism, and WWI. Students will be challenged in a variety of ways and will be required to use higher level, critical thinking skills and strategies including, problem solving, synthesis, and evaluation. Superior reading comprehension and strong writing skills are necessary for students' success in this course. <br> Blended learning combines traditional and online instruction to develop personalized learning. With three days in the classroom and three days online, blended learning uniquely provides flexibility in the place, pace, and path of instruction. The course is matched with a traditional course in level of rigor and investment of time. Skills in organization of materials, use of technology, and management of time are essential. | 90\% in Honors Social Studies or 93\% in Core Social Studies or $90 \%$ in Geography |
| World History First Level <br> SS2001 <br> 1 credit <br> 6/6 days a cycle Year | World History's primary emphasis is on the development of non-western cultural regions, and focuses on both chronological periods and broad themes. The course helps students see relationships between the regions of the world during various time periods and understand commonalities in their development over time. The pace of this course is specifically designed to meet students' needs. | n 60\% in Western Civilization |
| World History Academic SS2002* 1 credit 6/6 days a cycle Year | World History's primary emphasis is on the development of non-western cultural regions, and focuses on both chronological periods and broad themes. The course helps students see relationships between the regions of the world during various time periods and understand commonalities in their development over time. | n 60\% in Western Civilization |
| World History Academic Blended SS2002B* <br> 1 credit 6/6 days a cycle Year | World History's primary emphasis is on the development of non-western cultural regions, and focuses on both chronological periods and broad themes. The course helps students see relationships between the regions of the world during various time periods and understand commonalities in their development over time. <br> Blended learning combines traditional and online instruction to develop personalized learning. With three days in the classroom and three days online, blended learning uniquely provides flexibility in the place, pace, and path of instruction. The course is matched with a traditional course in level of rigor and investment of time. Skills in organization of materials, use of technology, and management of time are essential. | d 60\% in Western Civilization |


| World History Honors <br> SS2003* <br> 1 credit <br> 6/6 days a cycle Year | World History's primary emphasis is on the development of non-western cultural regions, and focuses on both chronological periods and broad themes. The course helps students see relationships between the regions of the world during various time periods and understand commonalities in their development over time. Students choosing this course level should have strong reading comprehension skills and an interest in social studies. | 80\% in Western Civilization Honors or 90\% in Western Civilization Academic |
| :---: | :---: | :---: |
| AP World History SS2004* 1 credit 6/6 days a cycle Year | The AP World History course is offered for 10th graders with the exceptional ability, motivation, and willingness to accept the challenge of a college-level social studies course. Superior reading comprehension and analytical skills are essential prerequisite skills required for students considering this level. The purpose of the AP World History course is to develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. The course emphasizes relevant factual knowledge deployed in conjunction with leading interpretive issues and types of historical evidence. The course builds on an understanding of cultural, institutional, and technological precedents that, along with geography, set the human stage. Periodization, explicitly discussed, forms an organizing principle for dealing with change and continuity throughout the course. Specific themes provide further organization to the course, along with the consistent attention to contacts among societies that form the core of world history as a field of study. The course is designed to prepare students for the AP World History Exam in May. There is a summer assignment requirement for this course. | 85\% in Western Civilization Honors and English 9 Honors or 93\% in Western Civilization Academic and English 9 Academic |
| AP World History Blended <br> SS2004B* <br> 1 credit <br> 6/6 days a cycle Year | The AP World History course is offered for 10th graders with the exceptional ability, motivation, and willingness to accept the challenge of a college-level social studies course. Superior reading comprehension and analytical skills are essential prerequisite skills required for students considering this level. The purpose of the AP World History course is to develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. The course emphasizes relevant factual knowledge deployed in conjunction with leading interpretive issues and types of historical evidence. The course builds on an understanding of cultural, institutional, and technological precedents that, along with geography, set the human stage. Periodization, explicitly discussed, forms an organizing principle for dealing with change and continuity throughout the course. Specific themes provide further organization to the course, along with the consistent attention to contacts among societies that form the core of world history as a field of study. The course is designed to prepare students for the AP World History Exam in May. There is a summer assignment requirement for this course. Blended learning combines traditional and online instruction to develop personalized learning. With three days in the classroom and three days online, blended learning uniquely provides flexibility in the place, pace, and path of instruction. The course is matched with a traditional course in level of rigor and investment of time. Skills in organization of materials, use of technology, and management of time are essential. | 85\% in Western Civilization Honors and English 9 Honors or 93\% in Western Civilization Academic and English 9 Academic |
| U.S. History \& Cultures First Level SS3001 <br> 1 credit <br> 6/6 days a cycle Year | U.S. History \& Cultures First Level surveys U.S. historical and cultural developments beginning with an overview of early American political and cultural conditions from 1607-1919. Emphasis is placed on the role of government, foreign policy, and current connections. In-depth units of study include: The 1920s, the Great Depression, World War II, the Aftermath of World War II, Social Responsibility (1961-69), Civil Rights, the Vietnam War Era, the Era of Social Action (1961-73), the Age of Limits, Modern Issues, and the recent presidencies. The pace of this course is specifically designed to meet students' needs. | 60\% in World History |
|  <br> Cultures Academic <br> SS3002* <br> 1 credit <br> 6/6 days a cycle <br> Year | U.S. History \& Cultures Academic surveys U.S. historical and cultural developments beginning with an overview of early American political and cultural conditions from 1607-1919. Emphasis is placed on the role of government, foreign policy, and current connections. In-depth units of study include: The 1920s, the Great Depression, World War II, the Aftermath of World War II, Social Responsibility (1961-69), Civil Rights, the Vietnam War Era, the Era of Social Action (1961-73), the Age of Limits, Modern Issues, and the recent presidencies. | 60\% in World History |
| U.S. History \& Cultures Honors SS3003* 1 credit 6/6 days a cycle Year | U.S. History \& Cultures Honors surveys historical and cultural developments beginning with an overview of early American political and cultural conditions from 1607-1919. Emphasis is placed on the role of government, foreign policy, and current connections. In-depth units of study include: The 1920s, the Great Depression, World War II, the Aftermath of World War II, Social Responsibility (1961-69), Civil Rights, the Vietnam War Era, the Era of Social Action (1961-73), the Age of Limits, Modern Issues, and the recent presidencies. Students will use a variety of thinking skills in their examinations. Students choosing this higher level should have an interest in social studies and be prepared to challenge themselves in higher level thinking. | 75\% AP World History or 80\% in World History Honors or $90 \%$ in World History Academic |


| AP US History <br> SS3004* <br> 1 credit <br> 6/6 days a cycle <br> Year | The AP United States History course provides the opportunity for highly motivated students with a learning experience equivalent to that obtained in most college introductory United States History courses. AP US History is a concepts course based on the seven course themes of geography and the environment, migration and settlement, work, exchange and technology, culture and society, American and national identity, politics and power, and America in the world. Historical thinking skills stressed throughout the course are argumentation, use of relevant evidence, causation, continuity and change over time, periodization, compare and contrast, contextualization, interpretation, and synthesis. Students are expected to use research skills daily, to read and comprehend a college level text daily, and write above grade level essays for each of nine units of content. Extensive amounts of higher level reading are required during this course. The goal of AP United States History is to help students organize and comprehend factual materials and then be able to establish the context, importance, and significance of specialized interpretive problems. This course emphasizes college level reading and writing, therefore it is strongly advised that students prepare for this course by taking 10th grade Honors English and 10th grade Honors Cultural Studies, or AP World History. Students who take the AP United States History course are expected to take the Advanced Placement examination in May. | 80\% in AP World History or 85\% in World History Honors and English 10 Honors or $93 \%$ in World History Academic and English 10 Academic |
| :---: | :---: | :---: |
| Civics \& Econ: 21st Century First Level SS4001 <br> 1 credit <br> 6/6 days a cycle <br> Year | Citizenship in the 21st Century First Level is a course designed to provide students with the knowledge, skills, and values they need to be more engaged citizens in the local, state and national communities. The course is tailored to engage seniors and show how government and economics is applicable to their lives, including good decision-making. The course includes a final project that will allow students to demonstrate their role in the community, both political and economic, applying the principles and ideas from the course. Students will be engaging with their local communities in order to work toward these goals. The pace of this course is specifically designed to meet students' needs. | $60 \%$ in 10th or 11th Grade Social Studies |
| Civics \& Econ: 21st <br> Century Academic <br> SS4002* <br> 1 credit <br> 6/6 days a cycle <br> Year | Citizenship in the 21st Century Academic is a course designed to provide students with the knowledge, skills, and values they need to be more engaged citizens in the local, state and national communities. The course is tailored to engage seniors and show how government and economics is applicable to their lives, including good decision-making. The course includes a final project that will allow students to demonstrate their role in the community, both political and economic, applying the principles and ideas from the course. Students will be engaging with their local communities in order to work toward these goals. | 60\% in U.S. History \& Cultures First Level or World History First Level |
| Civics \& Econ: 21st Century Academic Blended SS4002B* <br> 1 credit 6/6 days a cycle Year | Citizenship in the 21st Century Academic is a course designed to provide students with the knowledge, skills, and values they need to be more engaged citizens in the local, state and national communities. The course is tailored to engage seniors and show how government and economics is applicable to their lives, including good decision-making. The course includes a final project that will allow students to demonstrate their role in the community, both political and economic, applying the principles and ideas from the course. Students will be engaging with their local communities in order to work toward these goals. <br> Blended learning combines traditional and online instruction to develop personalized learning. With three days in the classroom and three days online, blended learning uniquely provides flexibility in the place, pace, and path of instruction. The course is matched with a traditional course in level of rigor and investment of time. Skills in organization of materials, use of technology, and management of time are essential. | 60\% in U.S. History \& Cultures First Level or World History First Level |
| AP Comparative Government \& Politics SS4004* <br> 1 credit <br> 6/6 days a cycle Year | AP Comparative Government \& Politics is the equivalent of an introductory level college course in political science and is conducted as a seminar involving student presentations, lectures, discussions, and debates. A variety of readings supplement the text and analytical writing skills, applicable to any college-level history or social science courses will be emphasized. During the first marking period, the focus is on the United States government and the intellectual framework of comparative politics, including vocabulary, theoretical models and concepts of political organization, processes and policies. The remaining part of the course concentrates on comparisons of concrete systems of government, including Great Britain, Russia-USSR, China, Mexico, Iran, Nigeria, and the European Union. Controversial domestic and foreign economic and political policies will be discussed and debated. Students enrolled in this course are encouraged to take the AP Comparative Government \& Politics examination administered in May. | 80\% in AP United States History or $85 \%$ in US History and Culture Honors or 93\% in US History and Culture Academic |
| AP Economics SS4014* <br> 1 credit 6/6 days a cycle Year | AP Economics is the equivalent of an entry level college course in microeconomics and macroeconomics. One semester is devoted to an introduction to basic economic concepts and reasoning and microeconomic topics, which include the structure and function of markets, the theory of the firm, product market models, the factor market, the role of government in the economy, and international trade. The other semester focuses on macroeconomics, the study of economic systems, including measuring economic performance, aggregate supply and aggregate demand, monetary policy, monetary and fiscal stabilization policies, schools of macroeconomic thought, and a reexamination of international trade. Emphasis is placed on the graphing and the application of economic principles and theories to analyze international, national, and local events and trends. Students can expect a course that is rigorous, including extensive reading and independent analytical thinking. Students have frequent opportunities to generate solutions to real and hypothetical economic problems, and to employ written and oral discourse supported by graphs to illustrate the logic of their conclusions. A summer assignment is required for all students who enroll in this class and due the first day of class. Students enrolled in this course are encouraged to take the Advanced Placement Micro and Macro examinations administered in May. | $80 \%$ in AP United States History or $85 \%$ in US History and Culture Honors or 93\% in US History and Culture Academic |


| AP US Government SS4024* <br> 1 credit 6/6 days a cycle Year | AP US Government is the equivalent of an entry level college course in political science. It is designed to encourage students to develop critical perspectives on American politics and government. Students will develop knowledge of the structure of American government and institutions, interest in public issues, and understand the groups, beliefs, and ideas that influence public policy decision making. It involves the study of general concepts used to interpret American politics and the analysis of specific case studies. Emphasis is placed on discussion and a critical review of a myriad of issues. Students are expected to have strong reading comprehension skills and organizational skills. Students are expected to read college-level texts and supplemental research, and apply these findings to current governmental policies. Areas of study include the structure of American government, public opinion and political participation, the influence of interest groups on policy, political parties and campaigns, presidential elections, and the structure and powers of the three branches of government. Students are also expected to fulfill political activism hours as well. Students enrolled in this course are encouraged to take the Advanced Placement U.S. Government examination administered in May. A summer assignment will require you to watch political shows and read news articles to review current events. An informational handout detailing specific instructions will be presented at a meeting in June prior to the summer break. | 80\% in AP United States History or 85\% in US History and Culture Honors or 93\% in US History and Culture Academic |
| :---: | :---: | :---: |
| AP Psychology SS2014* <br> 1 credit 6/6 days a cycle Year 10th,11th,12th | AP Psychology offers qualified students an elective course that is equivalent to an introductory college course in psychology. The course is designed to introduce students to the systematic and scientific study of human behavior and mental processes. Students are exposed to psychological facts, principles, and phenomena associated with each of the major subfields within psychology, including the ethics and methods psychologists use in the practice of their science. It is highly recommended that a student completes advanced coursework in another social studies class (Honors or AP) prior to taking this course. This would provide the student with the necessary experience in rigor, motivation, and discipline needed to complete course assignments and increase their likelihood for success in the course. An interest in the discipline is necessary for thoughtful examination and class discussion. | $80 \%$ in last year's AP Social Studies or 85\% in last year's Honors Social Studies or 93\% in last year's Academic Social Studies |
|  | SCIENCE DEPARTMENT <br> Department Chair: Doug Vallette |  |
| Course Name Course Level Credit \# days/cycle Term Length *NCAA Approved | COURSE DESCRIPTIONS | Depts. Grade Recommendation <br> \& Course Prerequisite <br> Requirement(s) <br> Minimum course prerequisite <br> requirement(s) course/level in bold |
| Global Science First Level SC1001* 1 credit 6/6 days a cycle Year | Global Science First Level teaches principles of matter and energy, as well as a basic understanding of ecology and the environment. This course will help build the skills necessary for a seamless transition into Biology First Level in 10th grade. This course will complement an Algebra IA/B First Level course or Algebra I Academic course, providing appropriate reinforcement of these concepts as needed. There is not an end of year Keystone exam in this course. Students who take this class will take the required Keystone exam after completing biology in 10th grade. Students can expect 1-2 hours of homework per week. | We recommend that students enrolled in Algebra IA First Level or Algebra IB First Level enroll in Global Science. |
| Biology I Academic SC1002* <br> 1 credit 6/6 days a cycle Year | Biology I Academic is a laboratory-oriented course designed for students who are continuing their education beyond high school. Class activities are based on laboratory experiences, inquiry, and analytical thinking. Integration of previous coursework in science and math is expected, and effective written communication is emphasized in the form of formal lab reports. The textbook integrates on-line activities into every unit. These enhance the overall learning experience. An appropriately placed student should expect 2-5 hours of homework over the period of a week, depending on the topic. [Note: Students enrolling in Algebra IA or IB First Level should request Global Science First Level.] *Concurrent enrollment in Algebra I Academic or higher is required. | Concurrent enrollment in Algebra I Academic or higher and $70 \%$ in 8th grade science or 80\% in Global Science |
| Biology I Honors SC1003* <br> 1 credit 6/6 days a cycle Year | Biology I Honors is designed to be an interactive experiential treatment of basic biological principles and concepts. The course relies heavily on an inquiry- based foundation in its instruction. Students should expect to be challenged mentally on a regular basis. Assessment includes the application of knowledge to new situations. This course is intended to prepare highly motivated students for their future coursework in science, including a second year of biology and/or other advanced level science courses. The course employs a molecular approach to exploring the various prevailing themes of life science. Emphasis is placed on higher level thinking skills, laboratory investigations and student enrichment activities. Open-ended assignments and written communication are emphasized through formal laboratory reports. Students are expected to take an active part in classroom and lab discussions and regularly contribute to the enhancement of the course. An appropriately placed student should expect 3-6 hours of homework/independent study over the period of a week, depending on the current topic. | $93 \%$ in 8th grade Core Science or <br> 85\% in 8th grade Honors Core Science |


| Biology I Honors <br> Blended <br> SC1003B* <br> 1 credit <br> 6/6 days a cycle Year | Biology I Honors is designed to be an interactive experiential treatment of basic biological principles and concepts. The course relies heavily on an inquiry-based foundation in its instruction. Students should expect to be challenged mentally on a regular basis. Assessment includes the application of knowledge to new situations. This course is intended to prepare highly motivated students for their future coursework in science, including a second year of biology and/or other advanced level science courses. The course employs a molecular approach to exploring the various prevailing themes of life science. Emphasis is placed on higher level thinking skills, laboratory investigations and student enrichment activities. Open-ended assignments and written communication are emphasized through formal laboratory reports. Students are expected to take an active part in classroom and lab discussions and regularly contribute to the enhancement of the course. An appropriately placed student should expect 3-6 hours of homework/independent study over the period of a week, depending on the current topic. Blended learning combines traditional and online instruction to develop personalized learning. With three days in the classroom and three days online, blended learning uniquely provides flexibility in the place, pace, and path of instruction. The course is matched with a traditional course in level of rigor and investment of time. Skills in organization of materials, use of technology, and management of time are essential. The three day online learning days allow the student and teacher an important opportunity to work collaboratively. | $93 \%$ in 8th grade Core Science or <br> $85 \%$ in 8th grade Honors Core Science |
| :---: | :---: | :---: |
| Biology I First Level SC2001 <br> 1 credit <br> 6/6 days a cycle Year | Biology I First Level presents biological concepts in an easy-to-read text and lab book. Topics and labs are applicable to everyday situations. Student activities are designed to enhance motivation and reinforce concepts. An appropriately-placed student should expect 1-2 hours of homework over the period of a week. | 60\% in Global Science |
| Chemistry I <br> Academic <br> SC2002* <br> 1 credit <br> 6/6 days a cycle <br> Year | Chemistry I Academic is a laboratory course designed for students who are continuing their education beyond high school. The fundamental concepts of chemistry are presented through demonstrations, laboratory experiments, classroom discussions, and cooperative learning activities. Emphasis is placed on the descriptive study of matter and its changes. Units include, matter, periodic table, nomenclature, chemical reactions, the mole, stoichiometry, energy, bonding, gases, and solutions. Students will learn to integrate their algebra understanding and their scientific thinking in this course. An appropriately placed student should expect an average of three hours of homework per week in the form of projects, test preparation, laboratory reports, and concept practice. | Math Prereq: <br> 90\% in Algebra I B First Level or $80 \%$ in Algebra I Academic or 70\% in Algebra I Accelerated AND <br> Science Prereq: 80\% in either Biology First Level or Integrated Science or $70 \%$ in Biology I Academic or 60\% in Biology I Honors |
| Chemistry I Honors <br> SC2003* <br> 1 credit <br> 6/6 days a cycle <br> Year | Chemistry I Honors is designed as an inquiry approach to chemistry. Fundamental concepts are discovered through the use of problem solving and open-ended questioning in the laboratory, and in class discussion. Emphasis is placed on quantitative relationships and the careful collection, recording and interpretation of data. This course is recommended to students interested in taking AP Chemistry. Disciplined work habits are a necessity to succeed in this accelerated math-based chemistry course. An appropriately placed student should expect an average of four hours of work per week in the form of projects, test preparation, lab reports, and homework. | Math Prereq:: 90\% in Algebra I Accelerated or 85\% in Algebra 1 Honors AND <br> Science Prereq: $90 \%$ in Biology I Academic or $80 \%$ in Biology I Honors |
| Integrated Science First Level* SC3001 <br> 1 credit <br> 6/6 days a cycle Year | Integrated Science is designed as an introductory course in the principles of physics and chemistry. It is a laboratory based course that uses real-world examples to lay a foundation for the understanding of other science courses in high school. An appropriately-placed student should expect 1-2 hours of homework over the period of a week. | 60\% in Biology First Level or Biology I Academic but not yet completed Algebra I Academic |
| Physics I Academic SC3002* <br> 1 credit 6/6 days a cycle Year | Physics I Academic is a laboratory course designed for students who are continuing their education beyond high school. Due to the nature of this course, students who will be concurrently enrolled in Trigonometry \& Analysis or beyond will be more appropriately placed in Honors Physics rather than Academic Physics. An appropriately-placed student should expect 2 hours of homework over the period of a week. | Math Prereq: <br> 70\% in Algebra I Academic or 60\% in Algebra I Accelerated or Honors AND <br> Science Prereq: <br> 70\% in Chemistry Academic or 60\% in Chemistry I Honors |
| Physics I Honors <br> SC3003* <br> 1 credit <br> 6/6 days a cycle Year | Physics I Honors serves to develop skills in quantitative problem solving and laboratory methods. The course concentrates on mechanics, but also explores waves, thermodynamics, optics and sound, electricity, magnetism, and modern physics. Trigonometry and algebra skills are integrated together with scientific thinking, giving the student a stronger basis in both science and mathematics. An appropriately-placed student should expect 3 hours of homework over the period of a week. <br> * Current enrollment or completion of Trigonometry and Analysis Accelerated or higher is required. | Math Prereq: Current enrollment or completion of Trigonometry and Analysis Accelerated AND Science Prereq: 90\% in Chemistry or 80\% in Honors Chemistry |
| AP Physics C: <br> Mechanics <br> SC3004* <br> 1 credit <br> 6/6 days a cycle <br> Plus 2/6 days a cycle <br> for labs <br> Year | AP Physics C: Mechanics is designed for the highly-motivated student considering a major in physics, engineering or other physical science and who wishes to possibly receive a college credit for work completed in high school. This first-year course in physics includes the content of the AP Physics C-Mechanics exam. Topics include the study of motion and force, work and energy, rotational dynamics, gravity, and oscillations. Students should be able to apply the concepts they are learning in calculus to the new topics they are learning in this course. This course does not cover all topics assessed on the SAT-II Physics Subject test. An appropriately placed student can expect 2-4 hours of work per week. *Current enrollment or completion of Calculus Accelerated or higher is required. | Math Prereq: <br> Current enrollment or completion of Calculus Accelerated or higher AND Science Prereq: 83\% in Honors Chemistry or Honors Physics |


| AP Physics C: <br>  <br> Magnetism <br> SC4004* <br> 1 credit <br> 6/6 days a cycle <br> Plus $2 / 6$ days a cycle <br> for labs <br> Year | AP Physics C: Electricity \& Magnetism is a second year course in physics, designed for the highly motivated student considering engineering, physics, or other physical sciences. The content of this course builds on concepts of honors physics or AP Physics C Mechanics. Topics include electrostatic forces and fields, magnetism and electromagnetic induction, the theory behind electrical components, analysis of DC and AC circuits, and electromagnetic waves as a model for light. This course does not cover all topics assessed on the SAT-II Physics Subject test. Current enrollment in Calculus Accelerated or higher is required. An appropriately placed student can expect 2 to 4 hours of homework a week, including work on the online Webassign platform. <br> * Current enrollment or completion of Calculus Accelerated or higher is required. | Math Prereq: <br> Current enrollment in Calculus Accelerated or higher <br> AND Science Prereq: 90\% in Physics I Honors or 70\% in AP Physics I |
| :---: | :---: | :---: |
| Physics II Academic SC4002* 1 credit 6/6 days a cycle Year | Physics II Academic is for the student who has taken Academic or Honors Physics and would like to learn more Physics content at the academic level. The course will cover topics that were not addressed in Academic Physics. Topics include forces involved in flight, properties of light including refraction and lenses, wave behavior, sound, electricity and magnetism, energy and the environment, and topics from modern physics. | 70\% in Physics I Academic or $60 \%$ in Physics I Honors |
| Biology II Academic SC3012* 1 credit 6/6 days a cycle Year | Biology II Academic is an elective course designed for students interested in continuing their study of biological sciences. Topics for study include: experimental design, microbiology, anatomy, physiology and biochemistry. Time in class is spent conducting lab activities (including student-designed experiments), recitation and lecture. | $70 \%$ in Biology I Academic or Honors <br> AND 75\% in Chemistry <br> Academic or 70\% in Chemistry I <br> Honors |
| AP Biology SC3014* 1 credit 6/6 days a cycle Plus 2/6 days a cycle for labs Year | AP Biology is designed for students who wish to prepare for the Advanced Placement (AP) test in Biology. Course content is consistent with the syllabus for AP Biology prepared by the College Board. The background for the course is provided by the text, Biology (Campbell and Reece, c. 2011, ed. 9). Approximately 28 chapters are covered during the school year, and students are expected to read approximately six chapters during the preceding summer. Time in class is devoted to experimental work (including the 13 required laboratory experiences described in the College Board AP syllabus), recitation, and lecture. Students are expected to: exhibit a high degree of self-motivation; be capable of integrating coursework in math, chemistry and physics; and demonstrate effective oral and written communication skills. Students electing this course are expected to take the AP Biology test, and typically spend between .5 and $.75 \mathrm{hr} /$ night preparing for class. | 90\% in Biology I Academic or 80\% in Biology I Honors AND 85\% in Chemistry Academic or 80\% in Chemistry I Honors |
| Environmental Science Academic SC3022* 1 credit 6/6 days a cycle Year <br> 11th, 12th | Environmental Science Academic is based on the premise that man is a steward of his environment. This elective course allows students of all academic levels to recognize man's waste and exploitation of his natural surroundings. It also stimulates discussion leading to possible answers remedying these conditions. The topics of study are: hydrology, nuclear energy, air pollution, thermal pollution, noise pollution, division of natural resources, wildlife management, hunting as a conservation tool, edible plants, climates (past, present and future). Projects and presentations are common and allow students to plan out their homework on timelines. |  |
| Environmental Science Academic Online SC30220* 1 credit 6/6 days a cycle Year 11th, 12th | Environmental Science Academic is based on the premise that man is a steward of his environment. This elective course allows students of all academic levels to recognize man's waste and exploitation of his natural surroundings. It also stimulates discussion leading to possible answers remedying these conditions. The topics of study are: hydrology, nuclear energy, air pollution, thermal pollution, noise pollution, division of natural resources, wildlife management, hunting as a conservation tool, edible plants, climates (past, present and future). Projects and presentations are common and allow students to plan out their homework on timelines. <br> Online learning requires students to take the course asynchronously through the use of the Canvas Learning Management system. Students will be able to connect with the teacher during the assigned period or may use Zoom to schedule time for questions and extra help. With six days of online learning per cycle, the course will provide flexibility in pace of instruction. Skills in organization of materials, use of technology, and management of time are essential. |  |
| AP Environmental Science <br> SC3024* <br> 1 credit <br> 6/6 days a cycle <br> Plus 2/6 days a cycle <br> for labs <br> Year <br> 11th, 12th | The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. As a college-level preparatory course, intensive reading and preparation outside of class is expected. Students who take this course are expected to take the AP exam. An appropriately placed student can expect approximately 4 hours of homework/week. | Math Prereq: <br> $70 \%$ in Algebra II (Accelerated or Honors) or 80\% in Algebra II Academic OR 90\% Honors Geometry or $93 \%$ in Geometry Accelerated AND Science Prereq: 80\% Chemistry I Honors or 90\% in Chemistry Academic |
| AP Chemistry II SC3034* <br> 1 credit <br> 6/6 days a cycle <br> Plus 2/6 days a cycle for labs Year | AP Chemistry II is a second year chemistry course which will build on Chemistry I Honors, and study electrochemistry, bonding, thermodynamics, kinetics, equilibrium, acid and base chemistry. Students will be asked to review Chemistry I Honors with a summer assignment in order to prepare for a test at the beginning of the school year. Major exams are given every two to three weeks. Labs are more complex than in Chemistry I Honors and take a significant amount of time to write up. Disciplined work habits are a necessity to succeed in this college level chemistry course. An appropriately placed student should expect an average of five hours of work per week in the form of projects, test preparation, lab reports, and homework. All students are encouraged to take the Advanced Placement Exam in May. | 85\% in Chemistry I Honors |


| Forensic Science Academic <br> SC3042* <br> 1 credit <br> 6/6 days a cycle <br> Year <br> 11th, 12th | Forensic Science Academic offers students an opportunity to see real-world applications of the theoretical principles developed in their more traditional science courses. This course integrates traditionally segregated disciplines (biology, chemistry, physics, math, language arts, social studies) in order to solve crimes based on evidence. Topics covered include: branches of forensic science, the law, types of evidence, how to process a crime scene, fingerprint collection, serology/blood evidence, DNA analysis, trace evidence, questioned documents, ballistics, toxicology, anthropology, and pathology/cause of death. Students enrolled in this course can expect frequent laboratory based assignments as well as extensive case studies in forensic science. An appropriately placed student can expect 1-4 hours of homework per week in the form of project completion, case study analysis, laboratory completion, conceptual practice and test preparation. | 60\% in Chemistry or 80\% in Integrated Science |
| :---: | :---: | :---: |
| Astronomy \& Oceanography Academic SC3032* <br> 1 credit <br> 6/6 days a cycle Year 11th. 12th | Astronomy \& Oceanography Academic will consist of a semester review of each topic. The questions that you have had about space and the oceans will be answered during this class. In Astronomy your understanding of your place in the Universe will be realized. A tour of topics that will unravel the mysteries of this fascinating science are brought to light in this first semester. You will look to the heavens and begin to connect the stars with a new foundation of understanding, no need to use an app! After that we will delve into the ocean realm. The physical properties and characteristics of the ocean will be explored and the diversity of marine life will be revealed in an understandable manner. This class is a lab science and many labs will be incorporated to increase the enjoyment and retention of new information. Each semester will include a student presentation. | 60\% in Algebra IB First Level or higher |

## Science Department Flowchart

Most science courses also have math prerequisites. Please review all the prerequisites carefully.


## MATH DEPARTMENT

Department Chair: Kevin Long
All students must complete three credits of mathematics for graduation. Most students complete one credit of math each year for four years. Students begin with Algebra I (the foundation for all other courses) and progress through geometry and Algebra II. At that point students make course choices depending on their future goals. In order to meet the needs of all students, the math department offers courses that vary in pace and depth of content. There are two academic levels, accelerated and academic, to allow students to be successful through pre-calculus topics. First level courses ensure that students are prepared for state assessments. Course descriptions include prerequisites for each course. These prerequisites help to ensure success in future courses. It is possible to change levels if students meet minimum requirements. A mapping of possible course sequences is provided at the end of the course descriptions for mathematics.
Note: Since Algebra I is the foundation necessary for success in all other math courses, middle school students who earn less than an 83\% in Algebra I may repeat the course for credit since they did not already earn high school credit. Current high school students who repeat the course, do not earn credit again, nor will the new grade be factored into the GPA. No other math course may be repeated for credit. Students may repeat another math course but credit will not be received.

Course Name
Course Level
Credit

## COURSE DESCRIPTIONS

## \# days/cycle

Term Length
*NCAA Approved

| Algebra I A First |
| :--- |
| Level |
| MA1001 |
| 1 credit |
| $6 / 6$ days a cycle |
| Year |

Algebra I Academic
MA1002*
1 credit
6/6 days a cycle
Year
Algebra I
Accelerated
MA1012*
1 credit
6/6 days a cycle Year
Algebra IB First Level
MA2001
1 credit
6/6 days a cycle Year
Geometry Academic MA2002*
1 credit
6/6 days a cycle Year
Geometry
Accelerated
MA2012*
1 credit
6/6 days a cycle
Year

## Geometry Honors

MA2003*
1 credit
6/6 days a cycle Year

Algebra I A First Level is for students who would benefit from a year of skill development while studying pre-algebra and algebra topics. Students will review pre-algebra topics such as basic operations of whole numbers, decimals and fractions, ratios and proportions, and the coordinate plane. Algebra I topics include simplifying expressions, solving equations and inequalities, and graphing and writing equations of lines. An appropriately placed student should expect at least two hours of homework over the period of a week.

Algebra I Academic is a college preparatory course that offers an introduction to higher mathematics. Topics include: number systems, algebraic expressions, equations, polynomials, rational expressions, factoring, and quadratics. An appropriately placed student should expect two to three hours of homework over the period of a week.

Algebra I Accelerated is a college preparatory course that offers an introduction to higher mathematics.
Topics include: number systems, algebraic expressions, equations, polynomials, rational expressions, factoring, and quadratics. An appropriately placed student can manage a faster pace at the academic level and expect three to four hours of homework over the period of a week.

Algebra I B First Level offers students the opportunity to spend a full year continuing the study of algebra after Algebra IA First Level. While less rigorous than other algebra courses, this course will allow the student to work toward meeting the standards set by the state. An appropriately placed student should expect at least two hours of homework over the period of a week.

Geometry Academic topics include but are not limited to logic, proofs, properties of triangles, polygons, congruence, similarity, right triangles, parallel and perpendicular lines, circles, area and volumes. An appropriately placed student should expect at least two and a half hours of homework over the period of a week.

Geometry Accelerated topics include but are not limited to logic, proofs, properties of triangles, polygons, congruence, similarity, right triangles, parallel and perpendicular lines, circles, area and volumes. The rigor of the material covered and the pace of the course increases at the accelerated level. An appropriately placed student should expect at least three hours of homework over the period of a week.

Geometry Honors includes but is not limited to logic, proofs, properties of triangles, polygons, congruence, similarity, right triangles, parallel and perpendicular lines, circles, area and volumes. This course is taught at the most rigorous level and fastest pace. An appropriately placed student should expect at least four hours of homework per week.

Depts. Grade
Recommendation
\& Course Prerequisite
Requirement(s)
Minimum course prerequisite requirement(s) course/level in bold
$72 \%$ or below in 8th grade Pre-Algebra
$73-89 \%$ in 8th grade
Pre-Algebra
$90 \%$ or above in 8th grade Pre-Algebra

60\% in Algebra IA First Level

60\% in Algebra I Academic, Accelerated, or Honors. 93\% in Algebra IB First Level

73\% in Algebra I Accelerated or Honors or $93 \%$ in Algebra I Academic

93\% in Algebra I
Accelerated or 90\% in
Algebra I Honors

| Geometry Honors Blended MA2003B* 1 credit 6/6 days a cycle Year | Geometry Honors Blended includes but is not limited to logic, proofs, properties of triangles, polygons, congruence, similarity, right triangles, parallel and perpendicular lines, circles, area and volumes. This course is taught at the most rigorous level and fastest pace. An appropriately placed student should expect at least four hours of homework per week. <br> Blended learning combines traditional and online instruction to develop personalized learning. With three days in the classroom and three days online, blended learning uniquely provides flexibility in the place, pace, and path of instruction. The course is matched with a traditional course in level of rigor and investment of time. Skills in organization of materials, use of technology, and management of time are essential. The three day online learning days allow the student and teacher an important opportunity to work collaboratively. | 93\% in Algebra I Accelerated or 90\% in Algebra I Honors |
| :---: | :---: | :---: |
| Geometry First Level MA3001 <br> 1 credit <br> 6/6 days a cycle Year | Geometry First Level offers students the opportunity to spend the majority of the year studying Geometry concepts including reasoning, parallel and perpendicular lines, triangles, polygons, perimeter, area, volume, similarities, circles, coordinate geometry and probability. There will be time set aside in this course for students to prepare for the state-wide assessment tests given during the junior year. This course, while less rigorous than the other Geometry courses, will allow the student to work towards meeting the standards set by the state. An appropriately placed student should expect at least two hours of homework per week. | 60\% in Algebra IB First Level |
| Algebra II Academic MA3002* <br> 1 credit 6/6 days a cycle Year | Algebra II Academic is a course for students who are going to continue in college preparatory mathematics. The course alone does not count as a prerequisite for Advanced Math Honors (see prerequisite for Advanced Math Honors if considering it). The content will include algebraic equations, inequalities, functions, systems of equations, rational expressions, complex numbers, and conic sections. An appropriately placed student should expect two hours of homework over the period of a week. | 60\% in Algebra I Academic, Accelerated or Honors or 93\% in Algebra IB First Level and 60\% in Geometry Academic, Accelerated |
| Algebra II Honors MA3003* <br> 1 credit 6/6 days a cycle Year | This is an honors level course that moves at a rapid pace and with great depth in preparation for Honors Advanced Math and eventually AP Calculus. An appropriately placed student is motivated, can process high level mathematical concepts quickly without the need for additional repetition and explanation, can work independently and is committed to completing additional practice when necessary to fully understand the concepts. Course content will include linear, quadratic, rational, irrational, exponential, logarithmic, and trigonometric functions along with quadratic relations. A scientific calculator is needed for this course. Graphing calculators are not permitted on most tests. A classroom set of graphing calculators is available for certain topics during the year. An appropriately placed student should expect about four hours of homework per week. certain topics during the year. An appropriately placed student should expect about four hours of homework per week. | $93 \%$ in Algebra I <br> Accelerated or 90\% in Algebra I Honors and 83\% in Geometry Accelerated or Honors |
| Algebra II Honors Blended MA3003B* 1 Credit 6/6 days a cycle Year | This is an honors level course that moves at a rapid pace and with great depth in preparation for Honors Advanced Math and eventually AP Calculus. An appropriately placed student is motivated, can process high level mathematical concepts quickly without the need for additional repetition and explanation, can work independently and is committed to completing additional practice when necessary to fully understand the concepts. Course content will include linear, quadratic, rational, irrational, exponential, logarithmic, and trigonometric functions along with quadratic relations. A scientific calculator is needed for this course. Graphing calculators are not permitted on most tests. A classroom set of graphing calculators is available for certain topics during the year. An appropriately placed student should expect about four hours of homework per week. <br> Blended learning combines traditional and online instruction to develop personalized learning. With three days in the classroom and three days online, blended learning uniquely provides flexibility in the place, pace, and path of instruction. The course is matched with a traditional course in level of rigor and investment of time. Skills in organization of materials, use of technology, and management of time are essential. The three day online learning days allow the student and teacher an important opportunity to work collaboratively. | 93\% in Algebra I <br> Accelerated or 90\% in Algebra I Honors and 83\% in Geometry Accelerated or Honors |
| Algebra II Accelerated MA3012* 1 credit 6/6 days a cycle Year | Algebra II Accelerated is designed to revisit the linear and quadratic families of functions introduced in Algebra I. We will then investigate more complicated families or functions such as linear, quadratic, exponential, logarithmic, radical, and rational functions. Heavy emphasis is placed on connecting algebraic equations to their graphs in the coordinate plane and students will learn to represent them in multiple ways such as verbal descriptions, equations, tables and graphs. Students will also use these functions to model real-world behavior and to make predictions based on limited information. While a graphing calculator is recommended, a scientific calculator will suffice for class work and evaluations. An appropriately placed student should expect four hours of homework over the period of a week. | $73 \%$ in Algebra I <br> Accelerated or Honors AND $73 \%$ in Geometry <br> Accelerated or 60\% in Geometry Honors |
| Algebra II Accelerated Blended MA3012B* <br> 1 Credit 6/6 days a cycle Year | Algebra II Accelerated is designed to revisit the linear and quadratic families of functions introduced in Algebra I. We will then investigate more complicated families or functions such as linear, quadratic, exponential, logarithmic, radical, and rational functions. Heavy emphasis is placed on connecting algebraic equations to their graphs in the coordinate plane and students will learn to represent them in multiple ways such as verbal descriptions, equations, tables and graphs. Students will also use these functions to model real-world behavior and to make predictions based on limited information. While a graphing calculator is recommended, a scientific calculator will suffice for class work and evaluations. An appropriately placed student should expect four hours of homework over the period of a week. <br> Blended learning combines traditional and online instruction to develop personalized learning. With three days in the classroom and three days online, blended learning uniquely provides flexibility in the place, pace, and path of instruction. The course is matched with a traditional course in level of rigor and investment of time. Skills in organization of materials, use of technology, and management of time are essential. The three day online learning days allow the student and teacher an important opportunity to work collaboratively. | $73 \%$ in Algebra I <br> Accelerated or Honors AND $73 \%$ in Geometry <br> Accelerated or 60\% in Geometry Honors |


|  <br> Trigonometry <br> Academic <br> MA4002* <br> 1 credit <br> 6/6 days a cycle Year | Algebra III \& Trigonometry Academic provides a fourth year of study in college preparatory mathematics while reinforcing Algebra and Geometry skills throughout the year. The first semester topics are: solving and graphing equations of degree two or higher, coordinate geometry, permutations and combinations, probability and conic shapes and their equations. Trigonometry is studied in the second semester focusing on its application rather than its theory. Students will solve problems involving triangles, work with equations and expressions that include trigonometric ratios, apply trig concepts to the $X$ - $Y$ coordinate plane and graph trigonometric functions. An appropriately placed student should expect two hours of homework over the period of a week. | 73\% in Algebra II Academic or 60\% in Algebra Accelerated |
| :---: | :---: | :---: |
| Trigonometry \& Analysis Accelerated MA4012* <br> 1 credit 6/6 days a cycle Year | Trigonometry \& Analysis Accelerated is designed to prepare students for a course in Calculus. We build the concept of measuring angles in radians so that we can introduce the trigonometric ratios on a unit circle. Then we progress to the six trig functions, trigonometric equations, right triangle trig and common trig identities. During the second semester, we work with exponents, logarithms and linear, quadratic and polynomial functions. A graphing calculator is strongly recommended for this course. An appropriately placed student should expect between three and five hours of homework over the period of a week. The amount of time required may vary depending on individual students' readiness to integrate concepts. | 83\% in Algebra II Accelerated or 60\% in Algebra II Honors |
|  <br> Analysis Accelerated <br> Blended <br> MA4012B* <br> 1 credit <br> 6/6 days a cycle <br> Year | Trigonometry \& Analysis Accelerated Blended is designed to prepare students for a course in Calculus. We build the concept of measuring angles in radians so that we can introduce the trigonometric ratios on a unit circle. Then we progress to the six trig functions, trigonometric equations, right triangle trig and common trig identities. During the second semester, we work with exponents, logarithms and linear, quadratic and polynomial functions. A graphing calculator is strongly recommended for this course. An appropriately placed student should expect between three and five hours of homework over the period of a week. The amount of time required may vary depending on individual students' readiness to integrate concepts. Blended learning combines traditional and online instruction to develop personalized learning. With three days in the classroom and three days online, blended learning uniquely provides flexibility in the place, pace, and path of instruction. The course is matched with a traditional course in level of rigor and investment of time. Skills in organization of materials, use of technology, and management of time are essential. The three day online learning days allow the student and teacher an important opportunity to work collaboratively. | 83\% in Algebra II Accelerated or 60\% in Algebra II Honors |
| Statistics Academic <br> MA4022* <br> 1 credit <br> 6/6 days a cycle <br> Year | Statistics Academic is an introductory course in data analysis. The course is recommended for juniors or seniors who are interested in learning the background content in statistics prior to taking a college level course, or the student who wants to gain analytical skills that can be used directly in the workplace. The course will focus on gathering, displaying, and interpreting data with a focus on the application. A graphing calculator is required for this course. An appropriately placed student should expect one to two hours of homework each week. | 60\% or better in Geometry First Level or 60\% or better in Algebra 2 Academic, Accelerated, Honors |
| Statistics <br> Accelerated <br> MA4032* <br> 1 credit <br> 6/6 days a cycle <br> Year | Statistics Accelerated is designed to provide the students with an introduction to the concepts of statistics. Descriptive and inferential statistics involving the mean of normal distributions are examined in detail. Analysis of variance, regression, and correlation will be studied. This course will stress the practical application of probability and statistics to various disciplines. This course is recommended to seniors who will be taking an introductory course in statistics in engineering, science, business, pre-med, journalism, political science or liberal arts in college. A graphing calculator is required for this course. An appropriately placed student should expect three to four hours of homework over the period of a week. | 93\% in Algebra II Academic or <br> 73\% in Algebra II Accelerated or 60\% in Algebra II Honors |
| Advanced Math Honors MA4023* <br> 1 credit 6/6 days a cycle Year | Advanced Math Honors moves at a rapid pace and with great depth in preparation for AP Calculus. An appropriately placed student is motivated, can process high level mathematical concepts quickly without the need for additional repetition and explanation, can work independently and is committed to completing additional practice when necessary to fully understand the concepts. Students are expected to fully understand the concepts taught in Algebra II Honors, including but not limited to exponential, logarithmic and trigonometric functions. The content is challenging and will include polynomial, rational, exponential, logarithmic, and trigonometric functions, parametric and polar equations, systems, matrices, sequences, and analytical geometry. Each student is required to provide a TI-83/TI-84 (TI-82, TI-85 or TI-86 are other acceptable options but instruction will be based on the $\mathrm{TI}-83 / \mathrm{TI}-84$ ). An appropriately placed student should expect around four hours of homework over the period of a week. <br> COURSE PREREQUISITE: Students from Algebra II Accelerated are required to complete a self-study of trigonometry concepts and take an end-of-review exam before the start of the next school year. All students requesting this course who previously took Algebra II Accelerated must take the review exam and to seek approval by the department. A grade prerequisite waiver is not permitted to override department approval prerequisite. Students who meet the grade prerequisite AND receive departmental approval will be enrolled in HAM contingent upon course availability. Students should see their current math teacher for an outline of topics for the self-study. Students must make arrangements to take the exam during the summer through the main office. | 83\% in Algebra II Honors or <br> 93\% in both Algebra II Accelerated and Geometry Accelerated and receive departmental approval, which includes a review exam.* See course description for more information. |
| Topics in Calc \& Statistics Accelerated MA5002* <br> 1 credit 6/6 days a cycle Year | Topics in Calc \& Statistics Accelerated is an alternative to a full year of calculus or statistics. Students will learn the fundamentals of probability and statistics. In addition, students will learn the introductory topics of calculus, which include but are not limited to limits and derivatives. Further, if time allows, students will also investigate series and sequences. An appropriately placed student should expect at least four hours of homework over the period of a week. | 73\% in Trigonometry \& Analysis or 60\% in Advanced Math Honors |


| Calculus Accelerated <br> MA5012* <br> 1 credit <br> 6/6 days a cycle Year | Calculus Accelerated will explore analytic geometry, limits, differential calculus, integration, application of the derivatives and the application of the definite integral. Concepts are developed from three perspectives: numerical approximations, graphing and algebra. There is a continued emphasis on correct notation so that students can transition smoothly into a college calculus program. There will be a heavy emphasis on how graphs can inform understanding of a functions behavior. Students will be expected to generate graphs and draw conclusions with and without the aid of a graphing calculator. A graphing calculator is strongly recommended in this course. An appropriately placed student should expect between four and six hours of homework over the period of a week. The amount of time required will vary depending on the individual students readiness to integrate concepts. | 83\% in Trigonometry \& Analysis or $73 \%$ in Advanced Math Honors |
| :---: | :---: | :---: |
| AP Calculus AB MA5004* 1 credit 6/6 days a cycle Year | AP Calculus AB covers both differential and integral calculus. This is equivalent to a college level course. Students need to have the ability to work independently and must meet daily class requirements. Students who enroll in this course are expected to take the AP test. An appropriately placed student should expect between five and seven hours of homework over the period of a week. | 93\% in Trigonometry \& Analysis or 83\% in Advanced Math Honors |
| AP Calculus BC MA6004* 1 credit 6/6 days a cycle Year | AP Calculus $B C$ begins with a review of the topics in AP Calculus $A B$. It then moves on to $B C$ level topics as outlined in the AP course outline. Students are expected to take the AP test, BC level. An appropriately placed student should expect at least five hours of homework over the period of a week. | 83\% in AP Calculus AB |
| AP Statistics MA5014* 1 credit 6/6 days a cycle Year 10th,11th,12th | AP Statistics is equivalent to an introductory college level Statistics Course. Topics are divided into four major themes: exploratory analysis, planning and conducting a study with data, probability, and statistical inference. A TI-83/TI-84 graphing calculator is needed for this course. An appropriately placed student should expect three to five hours of homework over the period of a week. | 93\% in Algebra II Accelerated or 83\% in Algebra II Honors |
| AP Statistics Blended MA5014B* <br> 1 credit 6/6 days a cycle Year 10th,11th,12th | AP Statistics Blended is equivalent to an introductory college level Statistics Course. Topics are divided into four major themes: exploratory analysis, planning and conducting a study with data, probability, and statistical inference. A TI-83/TI-84 graphing calculator is needed for this course. An appropriately placed student should expect three to five hours of homework over the period of a week. Blended learning combines traditional and online instruction to develop personalized learning. With three days in the classroom and three days online, blended learning uniquely provides flexibility in the place, pace, and path of instruction. The course is matched with a traditional course in level of rigor and investment of time. Skills in organization of materials, use of technology, and management of time are essential. The three day online learning days allow the student and teacher an important opportunity to work collaboratively. | 93\% in Algebra II Accelerated or 83\% in Algebra II Honors |

## Math Department Flowchart

Students must earn three math credits for graduation.

| Grade 8 | Grade 9 | Grade 10 | Grade 11 | Grade 12 |
| :---: | :---: | :---: | :---: | :---: |
| Geometry Honors | Algebra II Honors | Advanced Math Honors | AP Calculus AB | - AP Calculus BC <br> - AP Statistics |
| Students may move up or down a level depending on achievement level in a course. Prerequisites are listed next to the course descriptions. |  |  |  |  |
| Geometry | Algebra II Accelerated | Trigonometry \& Analysis Accelerated | - AP Statistics <br> - Calculus Accelerated <br> - Statistics Accelerated <br> - Topics in Calculus \& Statistics Accelerated | - AP Statistics <br> - Calculus Accelerated <br> - Statistics Accelerated <br> - Topics in Calculus \& Statistics Accelerated |
| Students may move up or down a level depending on achievement level in a course. Prerequisites are listed next to the course descriptions. |  |  |  |  |
| Honors Algebra I or Algebra I Traditional | Geometry Honors | Algebra II Honors | Advanced Math Honors | - AP Calculus AB <br> - AP Statistics <br> - Calculus Accelerated |
|  | Geometry Accelerated | Algebra II Accelerated | Trigonometry \& Analysis Accelerated | - AP Statistics <br> - Calculus Accelerated <br> - Statistics Accelerated <br> - Topics in Calculus \& Statistics Accelerated |

Students may move up or down a level depending on achievement level in a course. Prerequisites are listed next to the course descriptions.

| Pre-Algebra | Algebra I Accelerated | Geometry Accelerated | Algebra II Accelerated | - AP Statistics <br> - Trigonometry \& Analysis Accelerated <br> - Statistics Accelerated |
| :---: | :---: | :---: | :---: | :---: |
|  | Algebra I Academic | Geometry Academic | Algebra II Academic | - Algebra III \& Trigonometry Academic <br> - Statistics Academic |
|  | Algebra I A First Level | Algebra I B First Level | Geometry First Level | - Statistics Academic |

## HEALTH \& PE DEPARTMENT <br> Department Chair: Joe Herman

## Students are required to take Health/PE in 9th grade.

| Course Name Course Level Credit \# days/cycle Term Length *NCAA Approved | COURSE DESCRIPTIONS | Depts. Grade <br> Recommendation <br> \& Course Prerequisite <br> Requirement(s) <br> Minimum course prerequisite requirement(s) course/level in bold |
| :---: | :---: | :---: |
| Wellness I <br> HPE1002 <br> .25 credit <br> 3/6 days a cycle <br> Semester | This course explores the concept of health as it relates to the topics of wellness, mental health, mindfulness, substance abuse, relationships and human sexuality. Special emphasis is placed on self-assessment of wellness and application of knowledge toward personal goal setting and decision-making. Evaluation includes homework, quizzes, projects, and unit tests. |  |
| Team Building \& Leadership 9 HPE1012 .25 credit 3/6 days a cycle Semester | This course is designed to promote a sense of community while giving students the opportunity to work and accomplish objectives as a team. Students will be encouraged to work together to complete cooperative and problem-solving initiatives. Students will be given the opportunity to assume various leadership roles throughout the course to help develop the skills necessary to succeed in group settings. The Health and Skill related Components of Fitness will be reinforced through various physical activities. Students will be instructed on the proper use of all equipment and appropriate etiquette in the UHS Fitness Center. Students will also have the opportunity to learn climbing and spotting techniques while utilizing different low ropes elements. In addition, students will participate in a variety of games and activities that will promote personal fitness. Daily class participation is mandatory and a significant percentage of the overall grade. Evaluations may also include written assignments, online assignments, quizzes and/or projects. |  |
| Lifelong Fitness 10 HPE2022 . 25 credit 3/6 days a cycle Semester | Personal fitness is the focus of this course based on a design that promotes a healthy lifestyle through physical activity. Students will be instructed on the fundamentals of resistance training as well as ways in which to improve and or maintain cardio-respiratory fitness. In addition, students will participate in a variety of individual and team games and activities in order to demonstrate the correlation between the health and skill related components of fitness, and the game or activity. A students grade will be based on daily preparedness and participation, research assignments, in-class activities and written tests/quizzes. |  |
| Wellness II <br> HPE2002 <br> . 25 credit <br> 3/6 days a cycle <br> Semester | This course focuses on overall personal wellness. Topics of discussion focus on contemporary issues in nutrition, exercise, stress management, lifetime diseases, theories of addiction and mindfulness. Also, students will learn and apply the concepts of First Aid, CPR, and AED. Upon completion, students have an opportunity to receive their HeartSaver certification through the American Heart Association. | Wellness I |
| Sports Science <br> HPE2012 <br> . 5 credit <br> 6/6 days a cycle <br> Semester | Sport Science is the study of how the human body works during exercise and how sport and physical activity can promote health from the cellular level to the whole body perspectives. This is a great course for students interested in studying human anatomy and physiology. In this course, the students will use a kinesthetic (hands-on) approach to learn the anatomical structures, physiological concepts, application of S.T.E.M. principles, and to cultivate an interest in the various fields of medicine and fitness. Evaluation includes homework, quizzes, projects, and unit tests. | Wellness I |
| Sports Science <br> Blended <br> HPE2012B <br> . 5 credit <br> 6/6 days a cycle <br> Semester | Sport Science is the study of how the human body works during exercise and how sport and physical activity can promote health from the cellular level to the whole body perspectives. This is a great course for students interested in studying human anatomy and physiology. In this course, the students will use a kinesthetic (hands-on) approach to learn the anatomical structures, physiological concepts, application of S.T.E.M. principles, and to cultivate an interest in the various fields of medicine and fitness. Evaluation includes homework, quizzes, projects, and unit tests. <br> Blended learning combines traditional and online instruction to develop personalized learning. With three days in the classroom and three days online, blended learning uniquely provides flexibility in the place, pace, and path of instruction. The course is matched with a traditional course in level of rigor and investment of time. Skills in organization of materials, use of technology, and management of time are essential. The three day online learning days allow the student and teacher an important opportunity to work collaboratively. |  |
| Introduction to Yoga <br> HPE3022 <br> . 25 credit <br> 3/6 days a cycle <br> Semester | The focus of the course will be for students to learn the basics of Hatha Yoga so they may create a fitness and wellness routine tailored specifically to their individual needs (physically, mentally, and emotionally). Students will complete a pre and post wellness assessment. The muscular and skeletal systems will be reviewed throughout the course to help students with alignment during the physical practice. Students will also learn how and when to modify their practice based on individual needs (injury, illness, etc.). Beginning breathwork and meditation practices will be covered throughout the semester. Daily class participation is mandatory and a significant percentage of the overall grade. Evaluations may also include written assignments, online assignments, quizzes and/or projects. |  |


| Yoga 2 | This course is for students who have successfully completed Introduction to Yoga. The focus of this <br> course will be for students to move into an intermediate experience in: Yoga poses, breathwork, and <br> hPE3052 <br> history and philosophy. Students will: continue to study Yoga's effects on various body systems, create an <br> intermediate level personal practice, and participate in a district-wide service project. Daily class <br> participation is mandatory and a significant percentage of the overall grade. Evaluations may also include <br> written assignments, online assignments, quizzes and/or projects. | Intro. to Yoga |
| :--- | :--- | :--- |
| 3/6 days a cycle |  |  |
| Semester |  |  |$\quad$| The course is designed for students who prefer an individualized approach to fitness. It is perfect for |
| :--- | :--- |
| motivated students who would like to make improvements in cardiorespiratory fitness, overall strength |
| and flexibility. This course will start with a review of the health and skill related components of fitness |
| before moving on to a personal health and fitness assessment. Upon completion of the individualized |
| assessment, students will create a personal fitness and wellness plan that will be implemented |
| throughout the remainder of the course. Students will be given the opportunity to choose to work as an |
| individual or as part of a group. Daily class participation is mandatory and a significant percentage of the |
| overall grade. Evaluations may also include written assignments, online assignments, quizzes and/or |
| projects. |$\quad$.


| French IV Academic <br> WLF4002* <br> 1 credit <br> 6/6 days a cycle <br> Year | French IV Academic continues to expand on the fundamental skills of listening, speaking, reading and writing across the three communicative modes: (interpretive, interpersonal, and presentational) acquired in Level III. By the end of Level IV, students will attain intermediate-high proficiency as defined by ACTFL. Students should actively and consistently review previously learned concepts independently in order to improve fluency. | 70\% in French III Academic |
| :---: | :---: | :---: |
| French IV Honors WLF4003* 1 credit 6/6 days a cycle Year | French IV Honors continues to expand on the fundamental skills of listening, speaking, reading and writing across the three communicative modes: (interpretive, interpersonal, and presentational) acquired in Level III. French IV Honors is a pre-AP course designed to prepare students to be successful on the AP French exam. By the end of Level IV, students will be approaching advanced-low proficiency as defined by ACTFL. Students should actively and consistently review previously learned concepts independently in order to improve fluency. | 80\% in French III Honors or 95\% in French III Academic |
| French V Academic <br> WLF5002* <br> 1 credit <br> 6/6 days a cycle <br> Year | French V Academic continues to expand on the fundamental skills of listening, speaking, reading and writing across the three communicative modes: (interpretive, interpersonal, and presentational) acquired in Level IV. By the end of Level V, students will demonstrate advanced-low proficiency as defined by ACTFL. Students should actively and consistently review previously learned concepts independently in order to improve fluency. | 70\% in French IV Academic or Honors |
| AP French WLF5004* 1 credit 6/6 days a cycle | AP French Language provides the opportunity for qualified students to take a 300 college level course, and it offers possible college credit and possible advanced placement in cooperating colleges for those who pass the standardized test. Emphasizing the use of language for active communication, this course seeks to develop language skills (reading, writing, listening and speaking) across the three modes of communication: interpretive, interpersonal, and presentational. Students will perform in the advanced proficiency range. | 83\% in French IV Honors or 95\% in French IV Academic |
| German I Academic <br> WLG1002* <br> 1 credit <br> 6/6 days a cycle Year | German I Academic is designed for true beginners and/or students who have not yet gained beginner level proficiency expected of a Level I student. Students entering the High School who received an A, B, or C in German IB are expected to enroll in the appropriate Level II course. Level I is an introduction to the four basic language skills of reading, writing, speaking, and listening. Vocabulary is presented thematically; grammar patterns are practiced in functional situations related to unit themes. Students will begin to discover similarities and differences between the culture of the target language and their own. Homework: Students should expect to spend 15 to 20 minutes on homework. When written practice is not assigned, students should review previously learned concepts in order to improve fluency. | No prior German I class or earned a 69\% |
| German II Academic <br> WLG2002* <br> 1 credit <br> 6/6 days a cycle Year | German II Academic continues and expands the fundamental skills of listening, speaking, reading and writing acquired in Level I. Emphasis is given to the development of conversational abilities, mastery of new grammar structures, and acquisition of new vocabulary. Increased attention is given to reading and writing. Homework: Students should expect to spend 15 to 20 minutes on homework. When written practice is not assigned, students should review previously learned concepts in order to improve fluency. | 70\% in German I |
| German II Honors <br> WLG2003* <br> 1 credit <br> 6/6 days a cycle Year | German II Honors continues to expand on the fundamental skills of listening, speaking, reading and writing across the three communicative modes: (interpretive, interpersonal, and presentational) acquired in Level I. By the end of Level II, students will be approaching intermediate-mid proficiency as defined by ACTFL. Students should actively and consistently review previously learned concepts independently in order to improve fluency. | 90\% in German I |
| German III Academic WLG3002* <br> 1 credit 6/6 days a cycle Year | German III Academic continues to expand on the fundamental skills of listening, speaking, reading and writing across the three communicative modes: (interpretive, interpersonal, and presentational) acquired in Level II. By the end of Level III, students will attain intermediate-mid proficiency as defined by ACTFL. Students should actively and consistently review previously learned concepts independently in order to improve fluency. | 70\% in German II Academic |
| German III Honors <br> WLG3003* <br> 1 credit <br> 6/6 days a cycle Year | German III Honors continues to expand on the fundamental skills of listening, speaking, reading and writing across the three communicative modes: (interpretive, interpersonal, and presentational) acquired in Level II. By the end of Level III, students will be approaching intermediate-high proficiency as defined by ACTFL. Students should actively and consistently review previously learned concepts independently in order to improve fluency. | 80\% in German II Honors or 92\% in German II Academic |
| German IV Academic <br> WLG4002* <br> 1 credit <br> 6/6 days a cycle <br> Year | German IV Academic continues to expand on the fundamental skills of listening, speaking, reading and writing across the three communicative modes: (interpretive, interpersonal, and presentational) acquired in Level III. By the end of Level IV, students will attain intermediate-high proficiency as defined by ACTFL. Students should actively and consistently review previously learned concepts independently in order to improve fluency. | 70\% in German III Academic |
| German IV Honors <br> WLG4003* <br> 1 credit <br> 6/6 days a cycle Year | German IV Honors continues to expand on the fundamental skills of listening, speaking, reading and writing across the three communicative modes: (interpretive, interpersonal, and presentational) acquired in Level III. French IV Honors is a pre-AP course designed to prepare students to be successful on the AP French exam. By the end of Level IV, students will be approaching advanced-low proficiency as defined by ACTFL. Students should actively and consistently review previously learned concepts independently in order to improve fluency. | 80\% in German III Honors or 95\% in German III Academic |


| German IV Honors <br> Blended <br> WLG4003B* <br> 1 credit <br> 6/6 days a cycle <br> Year | German IV Honors continues to expand on the fundamental skills of listening, speaking, reading and writing across the three communicative modes: (interpretive, interpersonal, and presentational) acquired in Level III. German IV Honors a pre-AP course designed to prepare students to be successful on the AP German exam. By the end of Level IV, students will be approaching advanced-low proficiency as defined by ACTFL. Students should actively and consistently review previously learned concepts independently in order to improve fluency. <br> Blended learning combines traditional and online instruction to develop personalized learning. With three days in the classroom and three days online, blended learning uniquely provides flexibility in the place, pace, and path of instruction. The course is matched with a traditional course in level of rigor and investment of time. Skills in organization of materials, use of technology, and management of time are essential. The three day online learning days allow the student and teacher an important opportunity to work collaboratively. | 80\% in German <br> III Honors or 95\% in German III Academic |
| :---: | :---: | :---: |
| German V Academic <br> WLG5002* <br> 1 credit <br> 6/6 days a cycle <br> Year | German V Academic continues to expand on the fundamental skills of listening, speaking, reading and writing across the three communicative modes: (interpretive, interpersonal, and presentational) acquired in Level IV. By the end of Level V, students will demonstrate advanced-low proficiency as defined by ACTFL. Students should actively and consistently review previously learned concepts independently in order to improve fluency. | 70\% in German IV Academic or Honors |
| AP German <br> WLG5004* <br> 1 credit <br> 6/6 days a cycle Year | AP German Language provides the opportunity for qualified students to take a 300 college level course, and it offers possible college credit and possible advanced placement in cooperating colleges for those who pass the standardized test. Emphasizing the use of language for active communication, this course seeks to develop language skills (reading, writing, listening and speaking) across the three modes of communication: interpretive, interpersonal, and presentational. Students will perform in the advanced proficiency range. | 83\% in German IV Honors or 95\% in German IV Academic |
| Spanish I Academic <br> WLS1002* <br> 1 credit <br> 6/6 days a cycle <br> Year | Spanish I Academic is designed for true beginners and/or students who have not yet gained novice level proficiency expected of a Level I student. Students entering the High School who received a $70 \%$ or higher in Spanish IB are expected to enroll in the appropriate Level II course. Level I is an introduction to the four basic language skills of reading, writing, speaking, and listening across the three communicative modes: interpretive, interpersonal, and presentational. Students should actively and consistently review previously learned concepts independently in order to improve fluency. | No prior Spanish I class |
| Spanish II Academic <br> WLS2002* <br> 1 credit <br> 6/6 days a cycle <br> Year | Spanish II Academic continues to expand on the fundamental skills of listening, speaking, reading and writing across the three communicative modes: (interpretive, interpersonal, and presentational) acquired in Level I. By the end of Level II, students will attain intermediate-low proficiency as defined by ACTFL. Students should actively and consistently review previously learned concepts independently in order to improve fluency. | 70\% in Spanish I Academic |
| Spanish II Honors <br> WLS2003* <br> 1 credit <br> 6/6 days a cycle Year | Spanish II Honors continues to expand on the fundamental skills of listening, speaking, reading and writing across the three communicative modes: (interpretive, interpersonal, and presentational) acquired in Level I. By the end of Level II, students will be approaching intermediate-mid proficiency as defined by ACTFL. Students should actively and consistently review previously learned concepts independently in order to improve fluency. | $90 \%$ in Spanish I |
| Spanish II Honors Blended WLS2003B* 1 credit 6/6 days a cycle Year | Spanish II Honors continues to expand on the fundamental skills of listening, speaking, reading and writing across the three communicative modes: (interpretive, interpersonal, and presentational) acquired in Level I. By the end of Level II, students will be approaching intermediate-mid proficiency as defined by ACTFL. Students should actively and consistently review previously learned concepts independently in order to improve fluency. <br> Blended learning combines traditional and online instruction to develop personalized learning. With three days in the classroom and three days online, blended learning uniquely provides flexibility in the place, pace, and path of instruction. The course is matched with a traditional course in level of rigor and investment of time. Skills in organization of materials, use of technology, and management of time are essential. The three day online learning days allow the student and teacher an important opportunity to work collaboratively. | 90\% in Spanish I |
| Spanish III Academic WLS3002* <br> 1 credit <br> 6/6 days a cycle Year | Spanish III Academic continues to expand on the fundamental skills of listening, speaking, reading and writing across the three communicative modes: (interpretive, interpersonal, and presentational) acquired in Level II. By the end of Level III, students will attain intermediate-mid proficiency as defined by ACTFL. Students should actively and consistently review previously learned concepts independently in order to improve fluency. | 70\% in Spanish II Academic |
| Spanish III Honors WLS3003* <br> 1 credit 6/6 days a cycle Year | Spanish III Honors continues to expand on the fundamental skills of listening, speaking, reading and writing across the three communicative modes: (interpretive, interpersonal, and presentational) acquired in Level II. By the end of Level III, students will be approaching intermediate-high proficiency as defined by ACTFL. Students should actively and consistently review previously learned concepts independently in order to improve fluency. | 80\% in Spanish II Honors or 92\% in Spanish II Academic |
| Spanish IV Academic WLS4002* <br> 1 credit <br> 6/6 days a cycle Year | Spanish IV Academic continues to expand on the fundamental skills of listening, speaking, reading and writing across the three communicative modes: (interpretive, interpersonal, and presentational) acquired in Level III. By the end of Level IV, students will attain intermediate-high proficiency as defined by ACTFL. Students should actively and consistently review previously learned concepts independently in order to improve fluency. | 70\% in Spanish III Academic |


| Spanish IV Academic Blended WLS4002B* <br> 1 credit 6/6 days a cycle Year | Spanish IV Academic Blended continues to expand on the fundamental skills of listening, speaking, reading and writing across the three communicative modes: (interpretive, interpersonal, and presentational) acquired in Level III. By the end of Level IV, students will attain intermediate-high proficiency as defined by ACTFL. Students should actively and consistently review previously learned concepts independently in order to improve fluency. <br> Blended learning combines traditional and online instruction to develop personalized learning. With three days in the classroom and three days online, blended learning uniquely provides flexibility in the place, pace, and path of instruction. The course is matched with a traditional course in level of rigor and investment of time. <br> Skills in organization of materials, use of technology, and management of time are essential. The three day online learning days allow the student and teacher an important opportunity to work collaboratively. | 70\% in Spanish III Academic |
| :---: | :---: | :---: |
| Spanish IV Honors <br> WLS4003* <br> 1 credit <br> 6/6 days a cycle <br> Year | Spanish IV Honors continues to expand on the fundamental skills of listening, speaking, reading and writing across the three communicative modes: (interpretive, interpersonal, and presentational) acquired in Level III. French IV Honors is a pre-AP course designed to prepare students to be successful on the AP French exam. By the end of Level IV, students will be approaching advanced-low proficiency as defined by ACTFL. Students should actively and consistently review previously learned concepts independently in order to improve fluency. | 80\% in Spanish III Honors or 95\% in Spanish III Academic |
| Spanish V Academic WLS5002* <br> 1 credit 6/6 days a cycle Year | Spanish V Academic continues to expand on the fundamental skills of listening, speaking, reading and writing across the three communicative modes: (interpretive, interpersonal, and presentational) acquired in Level IV. By the end of Level V, students will demonstrate advanced-low proficiency as defined by ACTFL. Students should actively and consistently review previously learned concepts independently in order to improve fluency. | 70\% in Spanish IV Academic or Honors |
| Spanish V Academic Blended WLS5002B* 1 credit 6/6 days a cycle Year | Spanish V Academic continues to expand on the fundamental skills of listening, speaking, reading and writing across the three communicative modes: (interpretive, interpersonal, and presentational) acquired in Level IV. By the end of Level V, students will demonstrate advanced-low proficiency as defined by ACTFL. Students should actively and consistently review previously learned concepts independently in order to improve fluency. <br> Blended learning combines traditional and online instruction to develop personalized learning. With three days in the classroom and three days online, blended learning uniquely provides flexibility in the place, pace, and path of instruction. The course is matched with a traditional course in level of rigor and investment of time. <br> Skills in organization of materials, use of technology, and management of time are essential. The three day online learning days allow the student and teacher an important opportunity to work collaboratively. | 83\% in Spanish IV Honors or 95\% in Spanish IV Academic |
| AP Spanish <br> WLS5004* <br> 1 credit 6/6 days a cycle Year | AP Spanish Language provides the opportunity for qualified students to take a 300 college level course, and it offers possible college credit and possible advanced placement in cooperating colleges for those who pass the standardized test. Emphasizing the use of language for active communication, this course seeks to develop language skills (reading, writing, listening and speaking) across the three modes of communication: interpretive, interpersonal, and presentational. Students will perform in the advanced proficiency range. | 83\% in Spanish IV Honors or 95\% in Spanish IV Academic |

# ART DEPARTMENT <br> Department Chair: Faith Dilworth 

| Course Name <br> Course Level <br> Credit <br> \# days/cycle <br> Term Length | COURSE DESCRIPTIONS | Depts. Grade <br> Recommendation <br> \& Course Prerequisite <br> Requirement(s) Minimum <br> course prerequisite <br> requirement(s) course/level in <br> bold |
| :---: | :---: | :---: |
| Art I: Introduction to Drawing <br> ART1002 <br> 1 credit <br> 6/6 days a cycle <br> Year | Introductory prerequisite class for Art II teaching the fundamentals of volumetric shading, composition, and 2-D design. Emphasis on drawing from sight. Class will focus on drawing natural, architectural and portrait subjects. A variety of 2-D materials will be explored including graphite, charcoal, and mixed media. Projects are to be completed on a regular basis. Students will receive a letter grade each marking period. (Lab Fee) |  |
| Art II: Introduction to Color <br> ART2002 <br> 1 credit <br> 6/6 days a cycle <br> Year | Two-dimensional skills class emphasizing the technical mastery of a variety of color media. Elements of design and composition will continue to be incorporated into the visual program at this level. A variety of materials will be explored including dry pastels, colored pencil, gouache paint and watercolor among others. Students will refer to personally-selected subject matter without sacrificing aesthetic and creative considerations. Sight drawing and perspective lessons may be included. Students will work with guided independence during art production. Students will receive a letter grade each marking period. Sketchbook work will be required. Minimum of two works completed each quarter. (Lab Fee) | Art I:Introduction to Drawing |
| Art III: <br> Advanced Methods <br> Honors <br> ART3003 <br> 1 credit <br> 6/6 days a cycle <br> Year | Media exploration in this advanced class will encourage personal discovery and a more individualized development of personal style and subject choices. Art I and II skills will culminate in more complex artworks in scale, color, depth and technical expertise. Media will include pastels, both oil and dry, prismacolors, and oil paints. The consideration of art as statement, personal expression, or as illustration and graphic marketing will be taught. Digital portfolio analysis will be incorporated. Class critiques required in order to advance understanding of problem-solving choices. Outside of class sketchbook work will be required. Student work with guided independence during production. Students will receive a letter grade each quarter. (Lab Fee) | Art II: Introduction to Color |
| Art IV: Portfolio Honors <br> ART4003 <br> 1 credit <br> 6/6 days a cycle Year | This course will offer art students an individualized apprenticeship for cumulative portfolio refinement. Continued emphasis will be placed upon personal development and assessment. Competence will be evaluated after periodic student-teacher conferences while exploring mixed media techniques, advanced oil painting and other mono- and polychromatic media. Class critique required in order to advance understanding of problem-solving choices. Outside-of-class work will be necessary. Portfolio preparation may be options to include into course work. Personal goals will be identified and developed. Students will receive a letter grade each marking period. (Sketchbook and lab fee are required.) | Art III: Advanced Methods |
| Art 3-D Design I ART1012 <br> 1 credit <br> 6/6 days a cycle Year | In this year long credit course, students will experience important 3-D sculpture areas which may include but are not limited to: papermaking, stone carving, handbuilt and wheel-thrown clay, metals and jewelry, and fibers. Ceramic design and pottery production will be highlighted in this class. After workshop style introductory lessons, students work with guided independence within each art area. Planning and design will be emphasized. The course requires a completed project in each workshop area. Students will receive a letter grade each marking period. (Lab Fee) |  |
| Art 3-D Design II ART2012 <br> 1 credit <br> 6/6 days a cycle Year | This year long course builds aesthetically and developmentally upon techniques and processes learned in 3-D Design I. Workshop style introductory lessons will be presented, and students will demonstrate and research techniques and processes to expand into higher level applications, more individualized designs and larger, more permanent works. Elements of design and themes of 3-D art will continue to be incorporated into the class at a more advanced level. Emphasis will be placed on personal expression through the presentation of the sculptural mediums, which include but are not limited to clay, metals, and fibers. The course requires a completed project in each workshop. Students will receive a letter grade each marking period. (Lab Fee) | 3-D Design I |
| Art 3-D III <br> Sculpture \& Design <br> Honors <br> ART3013 <br> 1 credit <br> 6/6 days a cycle Year | This year-long course builds aesthetically and developmentally upon techniques and processes learned in 3-D Design II. Workshop-style introductory lessons will be presented and students will demonstrate and research techniques and processes to expand into high level applications, more design and larger, more permanent works. Elements of design and themes of 3-D art will continue to be incorporated into the class at a more advanced level. Students will develop personal statements and identify elements of their own personal aesthetic. Emphasis will be placed on personal expression through the presentation of advanced sculptural mediums, which include but are not limited to, advanced clay applications and glazing, precious metals, art glass, alabaster stone and fibers. More in depth inquiry into each media area will be required, as compared to previous courses. The course requires a completed project in each workshop. Students will receive a letter grade each marking period. Course Materials: In this class, we will be working with a variety of sculpture materials which may include, but are not limited to, aluminum, sterling silver, copper, brass, precious metal, clay, paper, rigid board, wire, foam, paper mache, plaster, hand-built and wheel-thrown clay, stone, and found objects. (Lab Fee) | 3-D Design II |


| AP Art History <br> ART2004 <br> 1 credit <br> 6/6 days a cycle <br> Year <br> 10th,11th,12th | The AP Art History course serves multiple purposes. It satisfies an elective requirement, it provides an opportunity for highly motivated students to take a college level course, and it offers the possibility of college credit at cooperating colleges and universities. As in all AP courses, students are expected to take the AP exam in May. AP Art History follows the national course outline which emphasizes the historical and cultural contexts of human development from the prehistoric times through modern times as seen through art, architecture, photography, and artifacts. This course is interdisciplinary in nature. The skills required are analytical writing, visual \& critical observation, and chronological organization of information. Formal aspects to be achieved include: Analyzing formal elements of art,becoming familiar with art vocabulary, acquiring knowledge of media materials and techniques of art production, recognizing and identifying period styles, developing a visual memory of a body of artworks, writing analytical and comparative essays. The AP Art History program's goal is to develop the understanding of culture through a working knowledge of history and philosophies through the world's work of art. NO ART ABILITY IS NECESSARY. NO ART WILL BE PRODUCED IN CLASS. (Lab Fee) | 93\% in last year's Academic English or 83\% in last year's English Honors AND 83\% in last year's Social Studies Academic or 80\% in last year's Social Studies Honors |
| :---: | :---: | :---: |
| Art 2-D Survey <br> ART1022 <br> . 5 credit <br> 6/6 days a cycle <br> Semester | This semester long course provides students of all levels experience with the elements of two-dimensional artwork and the use of popular 2-D art media. Materials to be utilized may include but are not limited to: paper, printmaking, collage, illustration and pen \& ink. After introductory lessons, students work individually in the specified area. Projects are required and evaluated on a regular basis. Students will receive a letter grade each marking period. (Lab Fee) |  |
| Art 3-D Survey <br> ART1032 <br> . 5 credit <br> 6/6 days a cycle <br> Semester | This semester long course provides students of all levels experience with the elements of three--dimensional artwork and the use of popular 3-D art media. Materials to be utilized may include but are not limited to hand-built clay, paper relief, plaster, wire, foam, and mixed media sculpture. After introductory lessons, students work individually in the specific area. Projects are required and evaluated on a regular basis. Students will receive a letter grade each marking period. (Lab Fee). |  |
|  | BUSINESS APPLICATIONS <br> Department Chair: Joe Kilpatrick |  |
| Course Name <br> Course Level Credit <br> \# days/cycle Term Length | COURSE DESCRIPTIONS | Depts. Grade <br> Recommendation <br> \& Course Prerequisite <br> Requirement(s) <br> Minimum course prerequisite requirement(s) course/level in bold |
| College \& Career Readiness <br> BUS1212 <br> . 5 credit <br> 6/6 days a cycle <br> Semester | This course is a .5 semester elective and is the semester, school based option. This course will introduce students to a Windows environment that will enable students to work with and manage computer files and software applications. Technology topics include: Microsoft Word, Microsoft Excel and Google Apps. Career Readiness topics will also be introduced. Career Readiness topics include Resumes, Cover Letters, Job Application Forms, Interviews and follow-up letters. An appropriately-placed student should expect a minimal amount (less than one hour per week) of assigned homework. Software: Microsoft Office 2016 and Google Applications. |  |
| College \& Career Readiness Online BUS1222 <br> . 5 credit <br> Online Semester | This course is a .5 semester elective and is the semester, online option. This course will introduce students to a Windows environment that will enable students to work with and manage computer files and software applications. Technology topics include: Microsoft Word, Microsoft Excel and Google Apps. Career Readiness topics will also be introduced. Career Readiness topics include Resumes, Cover Letters, Job Application Forms, Interviews and follow-up letters. An appropriately-placed student should expect a minimal amount (less than one hour per week) of assigned homework. Software: Microsoft Office 2016 and Google Applications. |  |
| College \& Career Readiness Survey <br> BUS1232 <br> . 25 credit <br> 3/6 days a cycle <br> Semester | This course is a .25 semester elective and is the semester, online option. This course will introduce students to a Windows environment that will enable students to work with and manage computer files and software applications. Technology topics include: Microsoft Word, Microsoft Excel and Google Apps. Career Readiness topics will also be introduced. Career Readiness topics include Resumes, Cover Letters, Job Application Forms, Interviews and follow-up letters. An appropriately-placed student should expect a minimal amount (less than one hour per week) of assigned homework. Software: Microsoft Office 2016 and Google Applications. |  |
| Entrepreneurship <br> BUS1052 <br> . 5 credit <br> 6/6 days a cycle <br> Semester | In this course students will develop a business plan for a small business and work in groups to develop or market a product or service. Through class discussions, group activities, textbook-workbook activities and case studies the course will explore small business and related marketing concepts. An appropriately placed student should expect a minimal amount (less than one hour per week) of assigned work. A final project is included in this course. |  |
| Personal Finance <br> BUS1112 <br> . 5 credit <br> 6/6 days a cycle <br> Semester | This is an introductory course offered as a semester long elective to the $9^{\text {th }}-12^{\text {th }}$ grades. Introduction to Personal Finance will introduce to the students effective ways of handling their finances. Topics will include: Gross Pay, Deductions, and Net Pay, Budgeting and Record Keeping, Checking Accounts and other Banking Services, Saving for Your Future, Investing in Your Future, Credit in America, and Insurance. EverFi Financial Literacy will be used as a supplemental learning tool in this course. An appropriately placed student should expect a minimal amount (less than one hour per week) of assigned work. |  |


| Personal Finance <br> Blended <br> BUS1112B <br> . 5 credit <br> 6/6 days a cycle <br> Semester | This is an introductory course offered as a semester long elective to the $9^{\text {th }}-12^{\text {th }}$ grades. Introduction to Personal Finance will introduce to the students effective ways of handling their finances. Topics will include: Gross Pay, Deductions, and Net Pay, Budgeting and Record Keeping, Checking Accounts and other Banking Services, Saving for Your Future, Investing in Your Future, Credit in America, and Insurance. EverFi Financial Literacy will be used as a supplemental learning tool in this course. An appropriately placed student should expect a minimal amount (less than one hour per week) of assigned work. Blended learning combines traditional and online instruction to develop personalized learning. With three days in the classroom and three days online, blended learning uniquely provides flexibility in the place, pace, and path of instruction. The course is matched with a traditional course in level of rigor and investment of time. Skills in organization of materials, use of technology, and management of time are essential. |  |
| :---: | :---: | :---: |
| Adobe Photoshop <br> BUS1082 <br> . 5 credit <br> 6/6 days a cycle <br> Semester | Photoshop is the professional/standard software used for image manipulation and editing. In this semester course, students will learn how to use and apply the numerous tools to create powerful images. Students will have an opportunity to learn how to work with layers, use masks, and create unique images to give them an artistic look, as well as to distort and create unusual effects. Students will learn how to create dazzling text, apply text to photos, and add special effects to images to create dramatic results. Students will learn how to touch up old photos, and convert color photos to black and white. Recommended for students who want to pursue a career in Graphic Design, Art, Web Development or work at home! No homework assigned. Software: Adobe Photoshop and Photo Booth |  |
| Programming <br> Principles with Python <br> BUS1102 <br> . 5 credit <br> 6/6 days a cycle <br> Semester | Using Python as a primary tool, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. This course can be a student's first course in computer science, although we encourage students without prior computing experience to start with either Introduction to Programming C++ or Apps for Digital Devices. These current computer science course offerings, while valuable introductory courses in programming, have not always prepared students for the rigorous environment of AP Java. Aiming to bridge the gap, this course can give students the next step into deeper computer science concepts rather than jumping straight into AP Java. The goal of the course will be to deepen core computer science concepts while looking through the lens of Python programming language. Python is a relatively recent addition to the universe of programming languages and continues growing in popularity. It is recommended that students without prior computer experience are encouraged to start with Apps for Digital Devices or Intro to Computer Programming C++. <br> * Concurrent enrollment or Completion of Algebra I Academic, Accelerated, or Honors is required. | Concurrent enrollment or Completion of Algebra I Academic, Accelerated, or Honors |
| Accounting I <br> BUS2002 <br> . 5 credit <br> 6/6 days a cycle <br> Semester. | This semester course will enable students to learn Accounting concepts that are focused on Sole-Proprietorship and service-oriented businesses. This course will teach students the eight-step accounting cycle and how it can be applied to everyday life. Topics will include but are not limited to the accounting equation, T-accounts, posting to a general ledger, cash control systems, worksheets, balance sheets, and income statements. An appropriately placed student should expect a minimal amount (less than one hour per week) of assigned homework. |  |
| Accounting I Blended <br> BUS2002B <br> . 5 credit <br> 6/6 days a cycle <br> Semester. | This semester course will enable students to learn Accounting concepts that are focused on Sole-Proprietorship and service-oriented businesses. This course will teach students the eight-step accounting cycle and how it can be applied to everyday life. Topics will include but are not limited to the accounting equation, T -accounts, posting to a general ledger, cash control systems, worksheets, balance sheets, and income statements. An appropriately placed student should expect a minimal amount (less than one hour per week) of assigned homework. <br> Blended learning combines traditional and online instruction to develop personalized learning. With three days in the classroom and three days online, blended learning uniquely provides flexibility in the place, pace, and path of instruction. The course is matched with a traditional course in level of rigor and investment of time. Skills in organization of materials, use of technology, and management of time are essential. The three day online learning days allow the student and teacher an important opportunity to work collaboratively. |  |
| Accounting I Online <br> BUS20020 <br> . 5 credit <br> 6/6 days a cycle <br> Semester. | This semester course will enable students to learn Accounting concepts that are focused on Sole-Proprietorship and service-oriented businesses. This course will teach students the eight-step accounting cycle and how it can be applied to everyday life. Topics will include but are not limited to the accounting equation, T-accounts, posting to a general ledger, cash control systems, worksheets, balance sheets, and income statements. An appropriately placed student should expect a minimal amount (less than one hour per week) of assigned homework. <br> Online learning requires students to take the course asynchronously through the use of the Canvas Learning Management system. Students will be able to connect with the teacher during the assigned period or may use Zoom to schedule time for questions and extra help. With six days of online learning per cycle, the course will provide flexibility in pace of instruction. Skills in organization of materials, use of technology, and management of time are essential. |  |
| Accounting II <br> BUS3012 <br> . 5 credit <br> 6/6 days a cycle <br> Semester | The Accounting II Course presents a complete accounting cycle for merchandising business organized as a corporation. The primary differences between merchandising business and a service business are that a merchandising business purchases merchandise for resale, charges sales tax on sales of merchandise, and includes a cost of merchandise sold section of the income statement. An appropriately placed student should expect minimal amount (less than one hour per week) of assigned homework. | Accounting I |
| Business Personal Law BUS2012 | This course will focus on both the substance and the process of our legal system and reflect many social and ethical issues. Practical contemporary legal issues such as sexual harassment, date rape, age |  |


| .5 credit 6/6 days a cycle Semester | discrimination, and employment contracts and protections will be addressed. In addition, the course has great practical value, providing background for professional exploration and illuminating the problems of private life, such as marriage, property rental and consumer protection. The Internet will also be used as a supplement to the course. An appropriately placed student should expect a minimal amount (less than one hour per week) of assigned work. |  |
| :---: | :---: | :---: |
| Criminal Justice <br> BUS2022 <br> . 5 credit <br> 6/6 days a cycle <br> Semester | This course introduces students to legal terminology and practices, ethical and criminal issues, how and why laws are passed, juvenile justice, forensics, trials, sentencing, our penal system, the death penalty, and law enforcement. Classroom instruction will be reinforced through the use of case studies, current events, field trip experience, guest speakers, current periodicals, the Internet, and in-house projects. An appropriately placed student should expect a minimal amount (less than one hour per week) of assigned work. |  |
| Intro to Computer Programming Using C++ <br> BUS2032 <br> . 5 credit <br> 6/6 days a cycle <br> Semester | This course will provide a foundation for further studies in computer science by introducing the high-level programming language $\mathrm{C}++$ as a problem-solving tool. Program design, coding, debugging, testing, documentation, and proper programming style is the focus of the course. Topics include an introduction to control structures, looping, text files, and functions. A disciplined approach to problem solving methods and algorithm development will also be emphasized. Classroom instruction will be reinforced through case studies, periodicals, and in-house projects. An appropriately placed student should expect a minimal amount (less than one hour per week) of assigned homework. Software: Microsoft Visual C++. Recommended course sequence: AP Computer Science Principles, Intro to Programming Using C++, AP Computer Science A (Java). <br> *Concurrent enrollment or Completion of Algebra I Academic, Accelerated, or Honors is required. | Concurrent enrollment or Completion of Algebra I Academic, Accelerated, or Honors |
|  <br> Entertainment <br> Marketing <br> BUS2042 <br> . 5 credit <br> 6/6 days a cycle <br> Semester | Sports and Entertainment Marketing is a unique and innovative course designed for students with an interest in learning the foundations for the numerous careers in the sports and entertainment industry. Instructional areas will include: an orientation to sports and entertainment industry, economics, event execution, career opportunities, decision making, event marketing, advertising and promotion and legal aspects/contracts. Classroom instruction will be reinforced through the use of case studies, field trip experience, current periodicals, the Internet, software, and in-house projects. An appropriately placed student should expect a minimal amount (less than one hour per week) of assigned work. Wikis and blogs will be used as a supplement to the course. |  |
|  <br> Entertainment <br> Marketing Blended <br> BUS2042B <br> . 5 credit <br> 6/6 days a cycle <br> Semester | Sports and Entertainment Marketing is a unique and innovative course designed for students with an interest in learning the foundations for the numerous careers in the sports and entertainment industry. Instructional areas will include: an orientation to sports and entertainment industry, economics, event execution, career opportunities, decision making, event marketing, advertising and promotion and legal aspects/contracts. Classroom instruction will be reinforced through the use of case studies, field trip experience, current periodicals, the Internet, software, and in-house projects. An appropriately placed student should expect a minimal amount (less than one hour per week) of assigned work. Wikis and blogs will be used as a supplement to the course. <br> Blended learning combines traditional and online instruction to develop personalized learning. With three days in the classroom and three days online, blended learning uniquely provides flexibility in the place, pace, and path of instruction. The course is matched with a traditional course in level of rigor and investment of time. Skills in organization of materials, use of technology, and management of time are essential. The three day online learning days allow the student and teacher an important opportunity to work collaboratively. |  |
|  <br> Entertainment <br> Marketing Online <br> BUS2042O <br> . 5 credit <br> 6/6 days a cycle Semester | Sports and Entertainment Marketing is a unique and innovative course designed for students with an interest in learning the foundations for the numerous careers in the sports and entertainment industry. Instructional areas will include: an orientation to sports and entertainment industry, economics, event execution, career opportunities, decision making, event marketing, advertising and promotion and legal aspects/contracts. Classroom instruction will be reinforced through the use of case studies, field trip experience, current periodicals, the Internet, software, and in-house projects. An appropriately placed student should expect a minimal amount (less than one hour per week) of assigned work. Wikis and blogs will be used as a supplement to the course. <br> Online learning requires students to take the course asynchronously through the use of the Canvas Learning Management system. Students will be able to connect with the teacher during the assigned period or may use Zoom to schedule time for questions and extra help. With six days of online learning per cycle, the course will provide flexibility in pace of instruction. Skills in organization of materials, use of technology, and management of time are essential. |  |
| AP Computer Science <br> A <br> BUS2004 <br> 1 credit <br> 6/6 days a cycle <br> Year <br> 10th,11th,12th | This year long course will provide a foundation for further studies in computer science by introducing the high-level JAVA programming language. This course is based on the premise that students will be able to pass the AP Java Exam given at the end of the year. Topics covered include: object-oriented programming, iteratives, conditionals, strings, arrays, searching, sorting, and data manipulation. Students will be able to produce original programs that will perform calculations, manipulate data, and display graphics. An appropriately placed student should expect approximately 3 hours a week of assigned homework. Software: Java Development Kit, J Grasp. Karel J Robot, Java Methods student disk (all free downloads). Recommended course sequence: AP Computer Science Principles, Intro to Programming Using C++, AP Computer Science A (Java). | 83\% in Algebra II Honors or 93\% Algebra II Accelerated |
| AP Computer Science Principles <br> BUS2014 | AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, Cybersecurity, and computing impacts. AP Computer Science | $85 \%$ or higher in Algebra I Honors, Algebra I |


| 1 credit | Principles will give students the opportunity to use technology to address real-world problems and build <br> relevant solutions. Together, these aspects of the course make up a rigorous and rich curriculum that aims <br> to broaden participation in computer science. Recommended course sequence: AP Computer Science | Accelerated, or Algebra I <br> (6 days a cycle <br> Year |
| :--- | :--- | :--- |
| Principles, Intro to Programming Using C++, AP Computer Science A (Java). |  |  |


| Semester | work in a portfolio including scale drawings, floor covering, window treatment, furniture arrangement, and accessories for a starter home and future Dream Home. (Lab Fee) |  |
| :---: | :---: | :---: |
| Regional \& Global Cuisine <br> FCS2002 <br> .5 credit <br> 6/6 days a cycle <br> Semester | Do you want to broaden your horizons and challenge your culinary skills? What do scones, enchiladas, eclairs and egg rolls have in common? They're all popular foods that originated in countries outside the U.S. This class is your passport to exploring the foods and cultures of countries around the world. Food customs, traditions, special cooking techniques and meal patterns of foreign countries, ethnic groups, and regions of the United States will be covered. You will discover the origins of many foods as we prepare recipes representing regional American and International cuisines. It will broaden a person's knowledge and understanding of nutrition, along with basic meal planning and food preparation skills. Be prepared to taste new foods that you may not have even heard but may become your new favorites. (Lab Fee) |  |
| MUSIC DEPARTMENT Department Chair: Jason Throne |  |  |
| Course Name Course Level Credit \# days/cycle Term Length | COURSE DESCRIPTIONS | Depts. Grade <br> Recommendation <br> \& Course Prerequisite <br> Requirement(s) <br> Minimum course prerequisite requirement(s) course/level in bold |
| Concert Band <br> MU1002 <br> .50 credit <br> 3/6 days a cycle Year | The band program at Unionville has a high level of expectation regarding the preparation, rehearsal, home practice and performances. It is expected that members will be prepared for class as well as the performance. This course also requires attendance at performances outside of the school day. The expectation is that all members will attend the concerts and be prepared for those events. Any woodwind, brass or percussion player may sign up for this class. |  |
| Orchestra <br> MU1012 <br> . 50 credit <br> 3/6 days a cycle Year | The orchestra performs classical selections ranging from works for string ensemble to large scale symphonic works. In addition, students will be placed in small chamber groups and perform in a chamber concert. Students are expected to practice their music outside of school so our class time is spent exploring the context and history of the music we are studying as well as improving technique, tone and overall musicality. We will not only prepare for our winter and spring performances, but students will be given opportunities to play in small ensembles, perform in the community, study etudes and solo repertoire, learn a bit of music history and theory and engage in musical discussions with their peers. After school performances are a part of the course. |  |
| Symphonic Band Honors <br> MU1023 <br> . 50 credit <br> 3/6 days a cycle Year | The band program at Unionville has a high level of expectation regarding the preparation, rehearsal, home practice and performances. It is expected that members will be prepared for class as well as the performance. This course also required attendance at performances outside of the school day. The expectation is that all members will attend the concerts and be prepared for those events. Any woodwind, brass or percussion player may audition for this upper level ensemble. Placement in this class is by audition and teacher recommendation only. | Audition/Teacher rec required |
| Jazz Band <br> MU1032 <br> . 50 credit <br> 3/6 days a cycle Year | The Jazz program at Unionville has a high level of expectation regarding the preparation, rehearsal, home practice and performances. It is expected that members will be prepared for class as well as the performance. Members will explore big band jazz literature, improvisation and jazz history. This course also requires attendance at performances outside of the school day. In addition to our regular concerts, we will attend multiple jazz festivals as well as host our own festival, Jazz Along the Brandywine. The expectation is that all members will attend the festivals and concerts and be prepared for those events. Placement in this class is by audition and teacher recommendation only. | Audition/Teacher rec required |
| Concert Choir <br> MU1042 <br> .50 credit <br> 3/6 days a cycle Year | In this ensemble, major emphasis is on vocal development, music reading skills, ear training, and the study of varied choral literature. Students will perform in concerts, solo and ensemble activities, musicals, and other special events. Concert Choir is open to students in all grades. |  |
| Chorale Honors MU1053 . 50 credit 3/6 days a cycle Year | In the chorale, major emphasis is placed on continued vocal development, continuation of music reading skills, ear training and the study of more complex choral literature. Students participate in frequent appearances and concerts both on campus and off campus. Students will perform in concerts, music festivals, assemblies, musicals, and other special events. Solo and small ensemble activities are encouraged in this advanced choir. Placement in this class is by audition and teacher recommendation only. | Audition/Teacher rec required |
| Combined Instrument <br> \& Vocal MU1102 <br> 1 credit <br> 6/6 days per cycle | Jazz, Symph, Chorale, Concert Choir | Audition/Teacher rec required |
| Combined Symphonic, Band \& Concert Choir MU1112 <br> . 50 credit <br> 3/6 days per cycle | Symphonic Band | Audition/Teacher rec required |

$\left.\begin{array}{|l|l|l|}\hline \begin{array}{l}\text { Combined Orchestra \& } \\ \text { Concert }\end{array} & & \text { Audition/Teacher rec } \\ \text { MU1122 }\end{array} \quad \begin{array}{lll}\text { required }\end{array}\right]$

## TECHNOLOGY \& ENGINEERING DEPARTMENT

Department Chair: Mike Berkeihiser

| Course Name Course Level Credit \# days/cycle Term Length | COURSE DESCRIPTIONS | Depts. Grade Recommendation \& Course Prerequisite Requirement(s) Minimum course prerequisite requirement(s) course/level in bold |
| :---: | :---: | :---: |
| Air \& Water <br> Transportation <br> TE1082 <br> . 5 credit <br> 6/6 days a cycle <br> Semester | In this hands-on, action oriented course, you will gain a more in-depth understanding of the construction and operation of airplanes and boats. Students will build and launch model rockets and airplanes. Students will design, construct and race boat hulls. Students will learn to safely use tools, machinery, and lab equipment. (Lab Fee) |  |
| Construction \& Home Renovation <br> TE1092 <br> . 5 credit <br> 6/6 days a cycle <br> Semester | In this hands-on action-oriented course, you will learn and practice the basics of building construction. You will learn how to frame walls, shingle roofs, hang drywall, wire switches and receptacles, install windows, lay numerous types of flooring, operate a variety of tools and equipment safely, read drawings and blueprints, and much more. This course will provide any student with skills and knowledge that will pay off forever, regardless of career choice. (Lab Fee). |  |
| Land Transportation <br> TE1112 <br> . 5 credit <br> 6/6 days a cycle <br> Semester | In this hands-on, action oriented course, you will gain a more in-depth understanding of mechanical systems, engine repair, and aerodynamics. Areas of lab work will include: disassembly and assembly of an internal combustion engine; designing, building and racing a CO2 powered dragster car; constructing and riding a hovercraft; and metal fabrication and welding. (Lab Fee) |  |
| Architectural/CAD Drafting I <br> TE1002 <br> . 5 credit <br> 6/6 days a cycle <br> Semester | This course will provide you with the opportunity to design, draw, and model the home of your dreams. You will use the same 2D and 3D CAD software used in Universities and major companies. If you plan to major in architecture in college, you can use this class to build your portfolio. You will understand computer-aided drawing and design, building techniques, economics, furnishings, traffic flow, use of space, balance, rhythm, and more. You'll have access to 3D printers, laser cutter, CNC router and much more. (Lab fee). |  |
| Architectural/CAD <br> Drafting II <br> TE2002 <br> .5 credit <br> 6/6 days a cycle <br> Semester | In this hands-on computer-based course, you will gain a much more in-depth understanding of architectural CAD. If you plan to major in architecture in college, you can use this class to build your portfolio. You will use a number of different software packages to create 2 - dimensional and 3dimensional architectural drawings on the computer. You will use the same software and physical modeling techniques used in colleges, universities, and professional design firms. (Lab fee). | Architectural / CAD Design and Drafting I |
| Electronics I <br> TE1012 <br> . 5 credit <br> 6/6 days a cycle <br> Semester | This action-oriented student centered course is designed for students interested in electronics and engineering. You will have the opportunity to solder and build a variety of projects that can be taken home, and learn about circuits and their components through experimentation. You will also gain an introductory experience with Raspberry Pi microcomputers and computer numerically controlled equipment. (Lab Fee) |  |
| Electronics II <br> TE2012 <br> . 5 credit <br> 6/6 days a cycle <br> Semester | This lab oriented course is the advanced study of electronics. You will build more involved projects and experiment with more complicated circuitry, providing a more in depth understanding of current practices and techniques in the electronics field. (Lab Fee) | Electronics I |
| Engineering I Survey <br> TE1032 <br> . 5 credit <br> 6/6 days a cycle <br> Semester | STEM (science, technology, ENGINEERING, and math) careers are among the fastest growing in the world today. They provide qualified graduates with countless opportunities. Take some time while you are in high school to discover the engineering field and prepare yourself for college classes. You have an opportunity at UHS that many schools cannot offer. Engineering I Survey is the study and application of Electrical, Aerospace, Robotic, Manufacturing, and Design Engineering. You will use the engineering design process to solve engineering problems. You will communicate your solutions using state-of-the-art 2D and 3D CAD software, the same software packages used in colleges and in business. You will also learn to model your designs using multiple 3D printers, a laser cutter, and a huge computer numerically controlled (CNC) router. These models can be tested and evaluated using our computer-driven wind tunnel. This is very much a hands-on student driven class where students have freedom to create and build their own designs. (Lab fee). |  |


| Engineering II Survey <br> TE2032 <br> . 5 credit <br> 6/6 days a cycle <br> Semester | This course is an extension of Engineering I Survey. The content in the second course is deeper and students have much more freedom to choose the direction they would like to go. They can choose the engineering discipline they would like to focus on. Students will learn to build and program VEX Robots. The capstone activity is the design, manufacture, and sale of a product. Students will break into teams of design, marketing, finance, sales, production, safety, and quality. Student teams function like a business to design a product, take on shareholders, conduct market research, safely produce their high quality products using state of the art manufacturing techniques, sell their products, and pay stockholders. (Lab fee). | 60\% in Engineering Survey I |
| :---: | :---: | :---: |
| Engineering/CAD <br> Drafting I <br> TE1022 <br> . 5 credit <br> 6/6 days a cycle <br> Semester | This action-oriented student-centered course will provide you with an introduction to computer-aided drafting (CAD), 2D and 3D on-screen computer modeling, technological design and problem solving, and computer numerically controlled (CNC) machining. Students will learn to use our 3D printers, laser cutter, and huge CNC router for class projects. We call it a student centered course because you will spend the bulk of your time working on drawings, models, CAD drawings, and CNC projects. While this course would be beneficial to anyone, it is extremely valuable for anyone planning a career in engineering or other technical fields. (Lab fee). |  |
| Engineering/CAD <br> Drafting II <br> TE2022 <br> . 5 credit <br> 6/6 days a cycle Semester | This is a computer-based advanced drafting course where you will create CAD drawings, 2D and 3D computer models, and 3-D solid models. You will also have the opportunity to bring your computer models to life through the use of 3D printers, a laser cutter, and a huge CNC router for class projects. Students will also solve complex engineering problems. They will draw their solutions and model them using CNC equipment. (Lab fee). | Engineering / CAD Design and Drafting I |
| Graphic <br> Communications I <br> TE1042 <br> . 5 credit <br> 6/6 days a cycle <br> Semester | This course will provide an examination of graphic design, photography, and visual communications methods. A variety of graphic and media processes will be examined. Areas of study will include but not be limited to: desktop publishing, package and graphic design, screen process printing, multi-color and process color printing, digital photography, image conversion and manipulation. Students will be expected to produce a variety of items using software and hardware applications. You will use industry-related software (Adobe Creative Suite) to gain creative experience in creating designs such as logos, posters, packaging, publications, decals, and screen printed designs. The design process will be used extensively and students will be evaluated upon their ability to apply their knowledge to produce quality products. (Lab Fee) |  |
| Graphic <br> Communications II <br> TE2042 <br> . 5 credit <br> 6/6 days a cycle <br> Semester | In this course, you will build upon your knowledge of design and fine-tune your ability to use typography, layout, and color theory to create eye-catching designs. You will use industry-related software (Adobe Creative Suite) to gain creative experience in creating designs such as logos, posters, packaging, publications, decals, and screen printed designs. Students will also work with outside clients to produce visual products. These projects will be advanced in both scope and design. Advanced techniques using Adobe Creative Suite will be explored in order to meet the needs of these clients. (Lab Fee) | Graphic Communications I |
| Photography I TE1052 <br> . 5 credit <br> 6/6 days a cycle Semester. | This is an activity-oriented course designed for all students who are interested in exploring photography as a hobby or possible career choice. You will learn about digital photography through hands-on activities and projects. They will have an opportunity to explore different types of camera and photography equipment, including professional drones. Basic photographic principles including composition, exposure, processing, printing and presentation methods will be explored. You will have an introduction to the use of industry-related software (Adobe Creative Suite) to manipulate photographs that you create. (Lab Fee) |  |
| Photography II TE2052 <br> . 5 credit <br> 6/6 days a cycle Semester | This activity-oriented course offers the student who has completed Photography I the opportunity to further refine skills in photography. You will have opportunities to improve camera handling, build intermediate photography skills, and photo presentation skills. Projects will include the portrait, architectural, nature, and other types of photographs and preparing photographs for display. Students will also have the opportunity to utilize drones to explore aerial photography, The use of industry-related software (Adobe Creative Suite) to manipulate images will be emphasized. (Lab Fee) | Photography I |
| Photography III TE3052 <br> . 5 credit <br> 6/6 days a cycle Semester | This activity-oriented course offers the student who has completed Photography II the opportunity to further refine skills in photography. You will have opportunities to explore more advanced photographic skills and become more comfortable with professional level equipment. The students will have the opportunity to explore event and location photography as well as the opportunity to further utilize drones for aerial photography, The use of industry-related software (Adobe Creative Suite) to manipulate images will be emphasized. (Lab Fee) | Photography II |
| Photography IV TE4052 <br> . 5 credit <br> 6/6 days a cycle Semester | These semester courses will challenge students to use all of their previous course knowledge to further develop their skills and understanding of photography. Students will be required to develop an independent contract exploring an aspect of photography that they would like to further explore. Work outside of class will be required to complete (Lab Fee) | Photography III |
| TV/Video Production I <br> TE1062 <br> . 5 credit <br> 6/6 days a cycle <br> Semester | In this hands-on course, students will make their own video productions. Students will have the opportunity to learn how to operate video cameras, sound equipment and various editing and other tools to produce a variety of video assignments based on personal, school, and community interests. There will be both group and individual projects. This class utilizes a fully equipped TV Studio and editing facility. No previous experience is necessary. (Lab Fee) |  |
| TV/Video Production II TE2062 | In this course students will continue to study the subject of video production. Much of the course will be spent learning how to utilize non-linear editing systems and additional camera techniques including | TV / Video Production I |


| .5 credit 6/6 days a cycle Semester | lighting and special effects. Students will use different audio equipment, specifically external microphones, and study their importance in video productions. Students will work in teams using digital video equipment to complete a variety of video production assignments. Each student will be expected to produce several professional level edited projects for a student video portfolio. |  |
| :---: | :---: | :---: |
| TV/Video Production III <br> TE3062 <br> . 5 credit <br> 6/6 days a cycle <br> Semester | These semester courses will challenge students to use all of their previous course knowledge to produce video packages. Students will operate the audio and video mixers and other equipment used in the studio broadcast and control rooms. The class will be expected to work as part of a team to write and produce packages that will be featured on our school morning show and on the school TV network. Some time will also be spent on chroma key work, lighting techniques and creation of computer animated graphics. Students will be encouraged to produce segments for entry in various contests and scholarship opportunities. | TV / Video Production II |
| TV/Video Production IV <br> TE4062 <br> . 5 credit <br> 6/6 days a cycle <br> Semester | These semester courses will challenge students to use all of their previous course knowledge to produce video packages. Students will operate the audio and video mixers and other equipment used in the studio broadcast and control rooms. The class will be expected to work as part of a team to write and produce packages that will be featured on our school morning show and on the school TV network. Some time will also be spent on chroma key work, lighting techniques and creation of computer animated graphics. Students will be encouraged to produce segments for entry in various contests and scholarship opportunities. | TV / Video Production III |
| Wood \& Metal Technology I TE1072 . 5 credit 6/6 days a cycle Semester | Ignite your passion for creating!!! Work with your hands and develop a lifelong skill. Learn the basics of woodworking and create projects that are meaningful. Students will use all of the equipment in our fully outfitted woodworking lab (shop) with safety as our top priority. This is a great opportunity for all students, regardless of their future career aspirations. Students will develop skills in this class that will be useful throughout life in their careers and as future homeowners. (Lab Fee) |  |
| Wood \& Metal Technology II TE2072 . 5 credit 6/6 days a cycle Semester | This is a course in advanced level woodworking where students will have the opportunity to build a wide variety of furniture pieces and other items. Students will build upon what they learned in the previous course class and apply their knowledge to more advanced projects. (Lab Fee) | Wood and Metal Technology I |
| Wood \& Metal Technology III TE3072 . 5 credit 6/6 days a cycle Semester | Advanced courses designed to utilize current and innovative manufacturing techniques. Students will work independently to design and make a custom piece of furniture. Students will incorporate the use of CNC machinery in the design. (Lab fee). | Wood and Metal Technology II |
| Wood \& Metal Technology IV TE4072 . 5 credit 6/6 days a cycle Semester | Advanced courses designed to utilize current and innovative manufacturing techniques. Students will work independently to design and make a custom piece of furniture. Students will incorporate the use of CNC machinery in the design. (Lab fee). | Wood and Metal Technology III |
| Intro to Engineering Design Honors TE1003 1 credit 6/6 days a cycle Year | This honors level year long course utilizes Autodesk Fusion 3D solid modeling design software to help students design solutions to proposed problems. Students will learn how to document their work and communicate solutions to peers and members of the professional community. The major focus of the IED course is to expose students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. Students will learn to create animated 3D assembly models in Inventor and print them on our 3D printers. Students can earn 3 college credits for taking this class through the Project Lead The Way program. (Lab fee). <br> *Concurrent enrollment or Completion of Algebra I Academic, Accelerated, or Honors is required. | Concurrent enrollment or Completion of Algebra I Academic, Accelerated, or Honors |
| Intro to Engineering Design Honors Blended <br> TE1003B <br> 1 credit <br> 6/6 days a cycle Year | This honors level year long course utilizes Autodesk Fusion 3D solid modeling design software to help students design solutions to proposed problems. Students will learn how to document their work and communicate solutions to peers and members of the professional community. The major focus of the IED course is to expose students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. Students will learn to create animated 3D assembly models in Inventor and print them on our 3D printers. Students can earn 3 college credits for taking this class through the Project Lead The Way program. (Lab fee). <br> *Concurrent enrollment or Completion of Algebra I Academic, Accelerated, or Honors is required. Blended learning combines traditional and online instruction to develop personalized learning. With three days in the classroom and three days online, blended learning uniquely provides flexibility in the place, pace, and path of instruction. The course is matched with a traditional course in level of rigor and investment of time. Skills in organization of materials, use of technology, and management of time are essential. The three day online learning days allow the student and teacher an important opportunity to work collaboratively. | Concurrent enrollment or Completion of Algebra I Academic, Accelerated, or Honors |


| Principles of Engineering Honors TE2003 <br> 1 credit 6/6 days a cycle Year | Through design problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, energy sources, machine control, fluid power, the strength of structures and materials, and automation. Students program robots in Robot C to solve engineering design problems. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. Students can earn 3 college credits for taking this class through the Project Lead The Way program. (Lab fee). | 73\% in Introduction to Engineering Design Honors |
| :---: | :---: | :---: |
| Principles of Engineering Honors Blended <br> TE2003B <br> 1 credit 6/6 days a cycle Year | Through design problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, energy sources, machine control, fluid power, the strength of structures and materials, and automation. Students program robots in Robot $C$ to solve engineering design problems. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. Students can earn 3 college credits for taking this class through the Project Lead The Way program. (Lab fee). <br> Blended learning combines traditional and online instruction to develop personalized learning. With three days in the classroom and three days online, blended learning uniquely provides flexibility in the place, pace, and path of instruction. The course is matched with a traditional course in level of rigor and investment of time. Skills in organization of materials, use of technology, and management of time are essential. The three day online learning days allow the student and teacher an important opportunity to work collaboratively. | 73\% in Introduction to Engineering Design Honors |
| Computer Integrated Manufacturing Honors TE3003 <br> 1 credit 6/6 days a cycle Year | CIM is the study of manufacturing planning, integration, and implementation of automation. CIM explores manufacturing history, processes, systems, and careers. In addition to technical concepts, the course incorporates finance, ethics, and engineering design. This reflects an integrated approach that manufacturers have adopted to improve safety, quality, and efficiency. Students will analyze, design, and build manufacturing systems. While implementing these designs, students will continually hone their interpersonal skills, creative abilities, and understanding of the design process. Students apply knowledge gained throughout the course in a final open-ended problem to build a factory system. The course applies and concurrently develops secondary-level knowledge and skills in mathematics, science, and technology. Students can earn 3 college credits for taking this class through the Project Lead The Way program. (Lab fee). | $73 \%$ or better in Principles of Engineering Honors |
| Civil Engineering and Architecture Honors TE3013 <br> 1 Credit 6/6 days a cycle Year | Civil Engineering and Architecture is the study of the design and construction of residential and commercial building projects. The course includes an introduction to many of the varied factors involved in building design and construction including building components and systems, structural design, stormwater management, site design, utilities and services, cost estimation, energy efficiency, and careers in the design and construction industry. The major focus of the CEA course is to expose students to the design and construction of residential and commercial building projects, design teams and teamwork, communication methods, engineering standards, and technical documentation.Students can earn 3 college credits for taking this class through the Project Lead The Way program. (Lab fee) | 73\% or better in Principles of Engineering Honors |
| Engineering Design \& Development Honors TE4003 <br> 1 credit 6/6 days a cycle Year | Engineering Design and Development (EDD) is the capstone course in the PLTW high school engineering program. It is an open-ended engineering research course in which students work in teams to design and develop an original solution to a well-defined and justified open-ended problem by applying an engineering design process. Students will perform research to select, define, and justify a problem. After carefully defining the design requirements and creating multiple solution approaches, teams of students select an approach, create, and test their solution prototype. Student teams will present and defend their original solution to an outside panel. While progressing through the engineering design process, students will work closely with experts and will continually hone their organizational, communication and interpersonal skills, their creative and problem solving abilities, and their understanding of the design process. | 73\% or better in Computer Integrated Manufacturing Honors or Computer Integrated Manufacturing Honors |


|  | ACADEMICALLY TALENTED Department Chair: Maggie Hunt |  |
| :---: | :---: | :---: |
| Course Name Course Level Credit \# days/cycle Term Length | COURSE DESCRIPTIONS | Depts. Grade <br> Recommendation <br> \& Course Prerequisite <br> Requirement(s) <br> Minimum course prerequisite requirement(s) course/level in bold |
| Higher Order Thinking <br> Skills <br> AT1002 <br> . 25 credit <br> 3/6 per cycle <br> Semester | The HOTS seminar is an experiential class that uses small and large group discussion to teach communication, cooperation, and critical thinking skills. Students are exposed to topics designed to help them discover their strengths and weaknesses as thinkers and as gifted learners. The seminar is graded on a Pass/Fail basis. Limited homework is required to successfully complete the course. | Class is available to identified Academically Talented students whether or not student has a GIEP |
| College \& Career <br> Readiness Survey <br> BUS1232 <br> . 25 credit <br> 3/6 days a cycle <br> Semester | This course is a .5 semester elective and is the semester, online option. This course will introduce students to a Windows environment that will enable students to work with and manage computer files and software applications. Technology topics include: Microsoft Word, Microsoft Excel and Google Apps. Career Readiness topics will also be introduced. Career Readiness topics include Resumes, Cover Letters, Job Application Forms, Interviews and follow-up letters. An appropriately-placed student should expect a minimal amount (less than one hour per week) of assigned homework. Software: Microsoft Office 2016 and Google Applications. | Class is available to identified Academically Talented students whether or not student has a GIEP |
| SPECIAL EDUCATION <br> Department Chairs: Stephanie Brown \& Megan Hilbolt |  |  |
| Course Name COURSE DESCRIPTIONS |  |  |
| Pathways Support | This program is designed to provide support to students who have emotional needs, identified through an assessment and evaluation process, who require additional support to be successful in the school environment. Services are maintained to meet the individual needs of these students. Students may receive support in the Pathways classroom or in the general education classes. Ongoing parent contact, diagnostic evaluations, and skill development through the delivery of curriculum are an integral part of the program. |  |
| Learning Support | This course is designed to provide specific support based on a student's individualized needs, identified through an assessment and evaluation process. Students may receive strategy instruction or opportunities for guided practice related to a student's IEP goals. Support may also be provided in general education classes where the special education teacher or paraprofessional is a consultant, co-planner or co-teacher alongside the general education teacher. |  |
| COUNSELING CENTER <br> Department Chair: Maribeth Lyles |  |  |
| Course Name <br> Course Level <br> Credit <br> \# days/cycle <br> Term Length | COURSE DESCRIPTIONS | Depts. Grade <br> Recommendation <br> \& Course Prerequisite <br> Requirement(s) <br> Minimum course prerequisite requirement(s) course/level in bold |
| College Admissions <br> Seminar 11 <br> CC0011 <br> 1/6 per cycle <br> Semester | During this six-session workshop that meets one day per cycle, participants will review important steps in the college admissions process. Topics will include: how to search for colleges, college visit tips and strategies, letters of recommendations, activities resume, testing requirements, personal statements/essays, and other important college application components. Students will be expected to complete work using the Naviance program and/or college websites between sessions. This seminar will be helpful to students who would like additional support with the college exploration and application process. |  |
| College Admissions <br> Seminar 12 <br> CC0012 <br> 1/6 per cycle <br> Semester | During this six-sessions workshop that meets one day per cycle, participants will review important steps in the college application process. Topics will include: how to search for colleges, college visit tips and strategies, essay review and edits, how to send test scores, interview skills, and other important information about completing college applications and sending supplemental materials. Students will be expected to complete work using the Naviance program and/or college websites between sessions. This seminar will be helpful to students who would like additional support as they work on completing college application requirements. |  |

## DUAL ENROLLMENT

https://www.wcupa.edu/ admin/dualEnrollment/
Dual enrollment courses are offered to UHS seniors only. Minimum of 3.0 GPA to apply for dual enrollment.
Please see your school counselor by April 21, 2021 if interested.

| Courses | Course Descriptions | Prerequisite |
| :---: | :---: | :---: |
| ANT 102 Introduction to Cultural Anthropology $\$ 6003$ credits | This course is an introduction to the fundamental concepts, methods, and theories of cultural anthropology. Through a variety of case studies from around the world, we will focus on the connections between culture, power, and representation. Emphasis will be placed on analyzing the process and outcomes of ethnographic fieldwork. | Class meets virtually M-W-F <br> 1:05pm-1:55pm |
| Linear Algebra $\$ 600 \quad 3$ credits |  | Class meets virtually M-W-F 11 am-11:50 am or $1: 05 \mathrm{pm}-1: 55 \mathrm{pm}$ |
| MAT 261 <br> Calculus III <br> $\$ 800 \quad 4$ credits | The calculus of several variables. Topics include polar coordinates, vectors and three-dimensional analytic geometry, differentiation of functions of several variables, multiple integrals, and line and surface integrals. | Class meets virtually M-W-F 8 am-9:15 am |

## CAREER \& TECHNICAL EDUCATION

| Courses | Course Descriptions | Prerequisite |
| :---: | :---: | :---: |
| Homeland Security Octorara <br> 891 <br> Year <br> 10th,11th,12th | The Octorara Homeland Security and Protective Services Academy (OHSPSA) is an approved PA Department of Education Career and Technical Education Program of Study available to students in grades 10, 11, and 12 for every Chester County school. The Academy is a part-time school of choice specializing in careers for pre-hospital emergency medical care, emergency medical technician (EMT), firefighting, emergency management, law enforcement, corrections, and military services. This program of study prepares individuals to apply technical knowledge and skills required to perform entry level duties as a firefighter, emergency medical and first aid responder, security, corrections, as well as various other occupations which encompass the broad spectrum of public safety. The program stresses techniques, methods, and procedures associated with emergency responses. Upon completion, students have the ability to earn up to 50 college credits, 64 state and national job-related certifications which are required for entry level positions. The Academy is a half day program located at the Chester County Emergency Services Training Center in Coatesville. For more information about OHSPSA, go to www.octorara.k12.pa.us. | By application only. |
| Welding \& Metal Fabrication TCHS T146A Year | This program will take place at Octorara High School but is offered through TCHS. Students in this program will be prepared for a variety of metalworking occupations as they gain hands-on experience with both welding and metal shaping equipment. This program will teach students how to fabricate new items and repair existing metal items. Students will be instructed using industry standard machines, such as: lathes, mills, grinders, drills, saws, and welders that will allow students to form, shape, mold, cut, twist, and work upon metal. This program prepares students for industry careers or college. | By application only. |

## Technical College High School: TCHS

The Chester County Intermediate Unit operates career and technical education programs for high school students at the Chester County Technical College High School (TCHS) in three locations: Brandywine Campus, Pennock's Bridge Campus and Pickering Campus. The Chester County Technical College High School (TCHS) is a part-time, public high school of choice specializing in career and technical education for students in grades 9-12. TCHS offers students an opportunity to prepare for their futures. Whether that means going on to higher education, securing a job after high school or some combination of the two, TCHS' student-centered approach crafts an educational experience as unique as each of its students. For more information about Chester County Technical College High School programs or to apply online visit www.technicalcollegehighschool.org. The career and technical education (CTE) programs offered at TCHS are aligned to the Pennsylvania State Standards, focused on national industry standards and are tuition-free for students. CTE programs lead seamlessly to postsecondary education through the Pennsylvania Department of Education's (PDE) SOAR Programs of Study. The mission of SOAR is to prepare Students (who are) Occupationally and Academically Ready for college and careers in an increasingly diverse, high- performing workforce. Graduates of approved SOAR programs who meet academic and technical criteria qualify for several FREE technical credits at over forty-three participating colleges across Pennsylvania. For more information about SOAR and the complete list of participating colleges and postsecondary program visit: www.cciu.org/collegecredit.

## Allied Health Science Technology

TCHS
T100A
2 periods
6/6 a cycle
Year

The Allied Health program is a highly regarded option for those considering a career in the medical profession. Top seniors who enroll in this 7.5 hour per week college prep program split their time behind a desk in the classroom and on their feet in local health care facilities. Students have four pathways to choose from:
Hospital, EMT, Community Health, or Sports Medicine track. The hospital track is for those students who are primarily interested in getting a comprehensive overview of the medical field in a hospital setting. Students will complete clinical rotations across a wide variety of hospital departments. The EMT track is for those students who are primarily interested in pursuing a career in the emergency medical field or building a foundation of knowledge for community health professions. Students will complete hands-on clinical rotations in the field with Good Fellowship Ambulance and EMS Training Institute. The Community Health track is primarily for students who are interested in the relationship between community and health.The sports medicine track is for those students who are interested in pursuing a career in the physical medicine and rehabilitation field. Students may complete clinical rotations in high school athletic training rooms and community rehabilitation facilities. This program, being run through the Technical College High School (TCHS), offers students from Unionville a comprehensive, one-year program which combines classroom theory and hands-on experience. Students interested in becoming an athletic trainer, physical therapist, nutritionist/dietician or a sports medicine physician will benefit from instruction by a TCHS educator with industry experience. The program, based out of Unionville High School, offers students the ability to gain experience with student-athletes in the school's training facilities, as well as patient experience in clinics in the surrounding community. Students may

By application only. Students must possess a driver's license, reliable means of transportation and proper clearances.

|  | have the opportunity to earn professional certificates through the program. For more information, please schedule a time to speak with your school counselor. |  |
| :---: | :---: | :---: |
| Animal Science TCHS T101A <br> Year | Animal Science prepares students to provide for the welfare of animals in the pet companion industry, veterinary science and biomedical fields. Graduates of the program are prepared for post- secondary education and entry-level employment. Upon graduation, interesting and rewarding career paths can be followed which combine a love for animals with an interest in the life sciences. Program concentrations include animal anatomy and physiology, animal cruelty issues, animal hygiene, genetics, husbandry, nutrition, preventative care and medicine, reproduction, and surgical assisting. Due to the emphasis on science and math, students considering this program should possess a strong academic foundation. | By application only |
| Automotive Collision Technology TCHS T102A Year | Automotive Collision Technology is for students who have a keen interest in motor vehicles and an eye for color, shape and creativity. Graduates of the program are prepared to pursue professional credentialing, entrylevel employment, and post-secondary education. Automotive Collision technology instruction is provided in the following areas: detailing and estimating, glass and hardware repair and replacement, metal finishing and body fillings, non-structural damage repair, outer body panel repair, painting and refinishing, welding and cutting. Program learning activities parallel the industry-recognized I-CAR curriculum. | By application only |
| Automotive Service Technology TCHS T103P Year | The Automotive Service Technology program is certified by the National Automotive Technicians Education Foundation (NATEF) and prepares students for post-secondary education and entry-level employment in the rapidly changing automotive service industry. Students are introduced to the ever-changing advancements that occur in the automotive industry such as hybrid vehicle design and maintenance. Instruction is provided in the following areas: automotive electrical and electronics systems, brake repair and installation, drivetrain and engine performance, heating and cooling systems, suspension and steering systems. The program also emphasizes customer relations and instructs students in the use of proper etiquette in a service economy. | By application only. |
| Carpentry TCHS T105A <br> Year | The Carpentry program develops students' skills for a career in the residential, commercial and home improvement construction industry. Students enrolled in the program learn safety practices, job estimating, and materials selection practices. They also learn the basics of rough carpentry, including the layout of walls, rafters, stairs and floors. Finish carpentry is also studied, including blueprint reading and drafting, cutting and joining construction materials, door, window and trim installation. Students have the opportunity to learn cabinet and furniture construction, including the use of laminates. A major focus is the construction of the joints required in fine cabinetry and furniture construction. Students study blueprint reading, construction methods and estimating, materials selection, and the safe use of hand and power tools. Students are responsible for the completion of hands- on carpentry and cabinetmaking projects from start to finish. | By application only. |
| Computer Info Systems Programming TCHS T107A Year | In the Computer Information Systems program, there is an emphasis on operating systems, applications programming languages, and networking equipment through hands-on training. After successful completion of the course, students are prepared for post-secondary education and entry-level positions in the computer support and operations, networking, and software development fields. There are four primary tracks addressed in the Computer Information Systems program, as follows: Networking Hardware, Networking Software, A+ Training, and Application/Web Development. In addition, all students are exposed to network security concepts. Our Security+ training course teaches the latest testing objectives and is designed to assist users in implementing and maintaining communication security, cryptography, access control, infrastructure security and authentication. | By application only. |
| Cosmetology TCHS T108A <br> Year | The Cosmetology program prepares students for state licensing in the field of cosmetology. Students can qualify to become a licensed cosmetologist or to obtain a specialized license in other areas, such as: nail technician, esthetician or natural hair braider. Program theory and hands-on skill instruction is provided in the following areas: facials, hairstyling, cutting, coloring, permanent waving and relaxing, straightening, infection control, principles and practice, manicures and pedicures, and professional awareness. | By application only. |
| Criminal Justice \& Police Sciences TCHS <br> T109A <br> Year | The Criminal Justice and Police Sciences program prepares students for both post-secondary education and entry-level employment in the protective services field. Students in the program are graded based on mastery of traditional classroom theory and performance of hands-on skills, including: performing police and security tactics, investigating crime scenes, and investigation report writing. Students receive instruction in the following areas: basic fire science, crime scene investigation, criminal investigation, criminal law, civil law, and court procedures, electronic security systems, forensic science, investigative photography, police and security tactics, and self-defense. | By application only. |
| Culinary Arts TCHS T110A <br> Year | The Culinary Arts program teaches students the necessary skills to be successful in the creative and rewarding food service industry. Graduates of the program may choose to continue their education with advanced standing in college and other post-secondary programs, or they may seek employment in entry-level culinary positions. The instructional program includes classroom theory and hands-on skill development in the following areas: baking, catering, customer service, food preparation, food service management, short order and high-volume cooking. Graduates of the program are certified under an American Culinary Federation approved program. | By application only. |
| Early Childhood Care \& Education TCHS <br> T111A <br> Year | The Early Childhood Care and Education program aligns its curriculum with the Pennsylvania Department of Education Bureau of Career \& Technical Education Child Development Associate (CDA)-Ready curriculum. All components of our Early Childhood Care and Education program prepare students to earn the CDA national certification. To become CDA ready, students complete 120 hours of formal training through multiple modalities, such as: active accredited training, project-based learning, research and field observations, and web-based distance education. Students gain experience as they rotate through various in-house preschool programs. Students create portfolios and professional development records that document their training and 480 hours of experience working with children in a preschool environment. Agreements with various colleges | By application only. |


|  | can provide students with between six and 15 undergraduate credits in early childhood education after completing the program. |  |
| :---: | :---: | :---: |
| Engine Technology TCHS T114A <br> Year | The Engine Technology program prepares students with the skills to troubleshoot and repair residential, commercial, and recreational outdoor power equipment and small engines. The program is aligned with the industry-recognized Equipment Engine Training Council (EETC) certification program, and includes engine repair and rebuilding, performance upgrades and the repair of various systems. The systems covered in the program include fuel, electronic, lubrication, cooling and braking systems. Maintenance procedures are a key component of the program as they relate to welding, fabrication and machining. The use of computer technology in a customer service- and teamwork-based learning environment, is a major focus of the program. Career advancement in this field is largely dependent upon post-secondary education and successful work experience. | By application only. |
| Engineering \& Robotics <br> TCHS <br> T104A <br> Year | The Robotics and Electronics program prepares students for positions in the electronics, computer hardware repair and robotics industries. In addition, it provides students with a strong academic foundation to continue their education in a post-secondary institution or college. Students in the traditional Robotics and Electronics program learn how to build and test electronic circuits and how to apply the electronic theories of audio systems, radio and wire communications, and analog/digital communications to real world situations. In addition, students are taught the basics of computer servicing/maintenance and networking. The robotics component prepares students for a variety of career opportunities in the area of robotics, industrial process and automation systems. Laboratory activities cover electronic circuits and devices, digital microprocessor systems, computers and networks, and programming software tools. Programmable logic controllers and vision and motion control are examined. Applied Engineering Technology (AET) is an innovative program within the traditional Electronics and Robotics program that permits high school juniors and seniors to earn up to 16 college credits at Delaware County Community College (DCCC). | By application only. |
| Health Career Pathways <br> TCHS <br> T116A <br> Year | Students explore the many exciting career pathways available in the health and medical occupations fields. They study vital signs, adult and pediatric patient assessment, ambulatory devices, and direct patient care. Direct clinical observation experience in a health care setting may be arranged to prepare students for a variety of careers in the healthcare industry. The Health Career Pathways program combines instruction in anatomy and physiology, growth and development, health careers, medical abbreviations, medical ethics, medical terminology, and nutrition. An emphasis is placed on communication and leadership skills, computer literacy and medical math. Many graduates of this program choose to continue their education to pursue careers in nursing, sports medicine, physical therapy and radiology. | By application only. |
| HVAC \& Refrigeration Technology TCHS T119A Year | The HVAC/Refrigeration Technology program provides students with the opportunity to install, maintain, and troubleshoot a wide range of heating, ventilation, air-conditioning, and refrigeration systems. Students in the program develop the skills needed to assemble and install tubing and piping systems, motors, compressors, control devices, valves and thermostats. Blueprints and schematics for related equipment and systems are also studied. In addition, basic electrical and control circuit concepts are taught and applied. Classroom presentations are reinforced by hands-on projects that enhance the learning experience. Graduates of the program may choose to continue their education in a post-secondary technical program, pursue an apprenticeship, or gain entry-level employment in the HVAC/ refrigeration field. | By application only. |
| Teacher Leadership Academy TCHS T122A and T122P Year | The Teacher Leadership Academy is a program for high school seniors interested in pursuing a career in the field of education. In addition to earning 2 high school credits, students have the opportunity to enroll in a dual enrollment program with Delaware County Community College (DCCC), where they can earn 9 college credits. The college courses are EDU 110 - Introduction to Teaching, EDU 215 -Theory and Field Experience in Elementary Education, and ENG 100 - English Composition. The course consists of 7.5 hours/week divided between classroom instruction and internships with certified, tenured teachers at all grade levels, resulting in approximately 180 hours of instruction and 90 hours of internship experience. Student internships consist of Elementary, Secondary Education and Special Education placements. | By application only. Students must possess a driver's license, reliable means of transportation and proper clearances. |
| Veterinary Science TCHS T800A <br> Year | The Veterinary Science program prepares students for successful employment in the field of veterinary medicine in entry-level positions at private veterinary practices, animal hospitals, biomedical research facilities, pharmaceutical companies, diagnostic laboratories and the military. Students interact with animals in and out of the classroom, job shadow and attend clinics with local veterinarians. The Veterinary Science program is designed to prepare students for post-secondary education with an emphasis on the sciences. Students must possess a strong academic foundation and have at least a 3.0 GPA. Students in this program have the opportunity to pursue college credits while enrolled at TCHS. | By application only. |

## COURSE NUMBERS \& COURSE NAMES BY DEPARTMENT

| ENG1003* | English 9 Honors | MA5002* | Topics in Calc \& Statistics Accelerated |
| :---: | :---: | :---: | :---: |
| ENG10030* | English 9 Honors Online | MA5004* | AP Calculus AB |
| ENG2001 | English 10 First Level | MA5012* | Calculus Accelerated |
| ENG2002* | English 10 Academic | MA5014* | AP Statistics |
| ENG2003* | English 10 Honors | MA5014B* | AP Statistics Blended |
| ENG2012* | Creative Writing | MA6004* | AP Calculus BC |
| ENG2022* | Public Speaking | ART |  |
| ENG3001 | English 11 First Level | ART1002 | Art I: Introduction to Drawing |
| ENG3003* | English 11 Honors | ART1012 | Art 3-D Design I |
| ENG3003B* | English 11 Honors Blended | ART1022 | Art 2-D Survey |
| ENG3004* | AP English Language \& Composition | ART1032 | Art 3-D Survey |
| ENG3062* | American Literature 11 Academic | ART2002 | Art II: Introduction to Color |
| ENG3072* | American Composition 11 Academic | ART2004 | AP Art History |
| ENG4001 | English 12 First Level | ART2012 | Art 3-D Design II |
| ENG4003* | English 12 Honors | ART3003 | Art III: Advanced Methods Honors |
| ENG4003B* | English 12 Honors Blended | ART3013 | Art 3-D III Sculpture \& Design Honors |
| ENG4004* | AP English Literature \& Composition | ART4003 | Art IV: Portfolio Honors |
| ENG4022* | Comparative Lit 12 Academic | MUSIC |  |
| ENG4032* | Conflict Literature 12 Academic | MU1002 | Concert Band |
| SOCIAL STUD | DIES | MU1012 | Orchestra |
| SS1001 | Western Civilization First Level | MU1023 | Symphonic Band Honors |
| SS1002* | Western Civilization Academic | MU1032 | Jazz Band |
| SS1003* | Western Civilization Honors | MU1042 | Concert Choir |
| SS1003B* | Western Civilization Honors Blended | MU1053 | Chorale Honors |
| SS2001 | World History First Level | MU1062 | Fundamentals of Music |
| SS2002* | World History Academic | MU1072 | Guitar I |
| SS2002B* | World History Academic Blended | MU1082 | Music Theory I |
| SS2003* | World History Honors | MU1092 | Music Technology I |
| SS2004* | AP World History | MU1102 | Combined Instrument \& Vocal |
| SS2004B* | AP World History Blended | MU1112 | Combined Sym. Band \& Concert Choir |
| SS2014* | AP Psychology | MU1122 | Combined Orchestra \& Con. Band or Con. Choir |
| SS3001 | U.S. History \& Cultures First Level | MU2072 | Guitar II |
| SS3002* | U.S. History \& Cultures Academic | MU2082 | Music Theory II |
| SS3003* | U.S. History \& Cultures Honors | MU2092 | Music Technology II |
| SS3004* | AP US History | MU3004 | AP Music Theory |
| SS4001 | Civics \& Econ: 21st Century First Level | TECHNOLOG | Y \& ENGINEERING |
| SS4002* | Civics \& Econ: 21st Century Academic | TE1002 | Architectural/CAD Drafting I |
| SS4002B* | Civics \& Econ: 21st Century AC Blended | TE1003 | Intro to Engineering Design Honors |
| SS4004* | AP Comparative Government \& Politics | TE1003B | Intro to Engineering Design Honors Blended |
| SS4014* | AP Economics | TE1012 | Electronics I |
| SS4024* | AP US Government | TE1022 | Engineering/CAD Drafting I |
| MATH |  | TE1032 | Engineering I Survey |
| MA1001 | Algebra I A First Level | TE1042 | Graphic Communications I |
| MA1002* | Algebra I Academic | TE1052 | Photography I |
| MA1012* | Algebra I Accelerated | TE1062 | TV/Video Production I |
| MA2001 | Algebra I B First Level | TE1072 | Wood \& Metal Technology I |
| MA2002* | Geometry Academic | TE1082 | Air \& Water Transportation |
| MA2003* | Geometry Honors | TE1092 | Construction \& Home Renovation |
| MA2003B* | Geometry Honors Blended | TE1112 | Land Transportation |
| MA2012* | Geometry Accelerated | TE2002 | Architectural/CAD Drafting II |
| MA3001 | Geometry First Level | TE2003 | Principles of Engineering Honors |
| MA3002* | Algebra II Academic | TE2003B | Principles of Engineering Honors Blended |
| MA3003* | Algebra II Honors | TE2012 | Electronics II |
| MA3003B* | Algebra II Honors Blended | TE2022 | Engineering/CAD Drafting II |
| MA3012* | Algebra II Accelerated | TE2032 | Engineering II Survey |
| MA3012B* | Algebra II Accelerated Blended | TE2042 | Graphic Communications II |
| MA4002* | Algebra III and Trigonometry Academic | TE2052 | Photography II |
| MA4012* | Trigonometry \& Analysis Accelerated | TE2062 | TV/Video Production II |
| MA4012B* | Trigonometry \& Analysis Accelerated Blended | TE2072 | Wood \& Metal Technology II |
| MA4022* | Statistics Academic | TE3003 | Computer Integrated Manufacturing Honors |
| MA4023* | Advanced Math Honors | TE3013 | Civil Engineering \& Architecture Honors |
| MA4032* | Statistics Accelerated | TE3052 | Photography III |


| TE3062 | TV/Video Production III | BUS2042B | Sports \& Entertainment Marketing Blended |
| :---: | :---: | :---: | :---: |
| TE3072 | Wood \& Metal Technology III | BUS20420 | Sports \& Entertainment Marketing Online |
| TE4003 | Engineering Design \& Dev Honors | BUS3012 | Accounting II |
| TE4052 | Photography IV | WORLD LANGUAGE |  |
| TE4062 | TV/Video Production IV | WLF1002* | French I Academic |
| TE4072 | Wood \& Metal Technology IV | WLF2002* | French II Academic |
| SCIENCE |  | WLF2003* | French II Honors |
| SC1001* | Global Science First Level | WLF3002* | French III Academic |
| SC1002* | Biology I Academic | WLF3003* | French III Honors |
| SC1003* | Biology I Honors | WLF4002* | French IV Academic |
| SC1003B* | Biology I Honors Blended | WLF4003* | French IV Honors |
| SC2001 | Biology I First Level | WLF5002* | French V Academic |
| SC2002* | Chemistry I Academic | WLF5004* | AP French |
| SC2003* | Chemistry I Honors | WLG1002* | German I Academic |
| SC3001* | Integrated Science First Level | WLG2002* | German II Academic |
| SC3002* | Physics I Academic | WLG2003* | German II Honors |
| SC3003* | Physics I Honors | WLG3002* | German III Academic |
| SC3004* | AP Physics C: Mechanics | WLG3003* | German III Honors |
| SC3012* | Biology II Academic | WLG4002* | German IV Academic |
| SC3014* | AP Biology | WLG4003* | German IV Honors |
| SC3022* | Environmental Science Academic | WLG4003B* | German IV Honors Blended |
| SC30220* | Environmental Science Academic Online | WLG5002* | German V Academic |
| SC3024* | AP Environmental Science | WLG5004* | AP German |
| SC3032* | Astronomy \& Oceanography Academic | WLS1002* | Spanish I Academic |
| SC3034* | AP Chemistry II | WLS2002* | Spanish II Academic |
| SC3042* | Forensic Science Academic | WLS2003* | Spanish II Honors |
| SC4002* | Physics II Academic | WLS2003B* | Spanish II Honors Blended |
| SC4004* | AP Physics C: Electricity \& Magnetism | WLS3002* | Spanish III Academic |
| HEALTH \& P |  | WLS3003* | Spanish III Honors |
| HPE1002 | Wellness I | WLS4002* | Spanish IV Academic |
| HPE1012 | Team Building \& Leadership 9 | WLS4002B* | Spanish IV Academic Blended |
| HPE1022 | Drivers Education - Fall | WLS4003* | Spanish IV Honors |
| HPE1032 | Drivers Education - Spring | WLS5002* | Spanish V Academic |
| HPE1122 | Full Year Adaptive PE | WLS5002B* | Spanish V Academic Blended |
| HPE2002 | Wellness II | WLS5004* | AP Spanish |
| HPE2012 | Sports Science | FAMILY CONSUMER SCIENCE |  |
| HPE2012B | Sports Science Blended | FCS1002 | Foods I |
| HPE2022 | Lifelong Fitness 10 | FCS1012 | Foods II |
| HPE3012 | Adventure Based Education | FCS1022 | Child Development |
| HPE3022 | Introduction to Yoga | FCS1032 | Housing \& Interior Design |
| HPE3052 | Yoga 2 | FCS2002 | Regional \& Global Cuisine |
| HPE3032 | Personal Fitness | SUPPORT |  |
| HPE3042 | Team Games | LS | Learning Support |
| BUSINESS A | PPLICATIONS | PS | Pathways |
| BUS1052 | Entrepreneurship | AT1002 | Higher Order Thinking Skills |
| BUS1082 | Adobe Photoshop | TCHS |  |
| BUS1102 | Programming Principles with Python | T0891 | Homeland Security Octorara |
| BUS1112 | Personal Finance | T100A | Allied Health Science Technology TCHS |
| BUS1112B | Personal Finance Blended | T101A | Animal Science TCHS |
| BUS1212 | College and Career Readiness | T102A | Automotive Collision Technology TCHS |
| BUS1222 | College and Career Readiness Online | T103P | Automotive Service Technology TCHS |
| BUS1232 | College and Career Readiness Survey | T104A | Engineering \& Robotics TCHS |
| BUS2002 | Accounting I | T105A | Carpentry TCHS |
| BUS2002B | Accounting I Blended | T107A | Computer Info Systems Programming TCHS |
| BUS20020 | Accounting I Online | T108A | Cosmetology TCHS |
| BUS2004 | AP Computer Science A | T109A | Criminal Justice \& Police Sciences TCHS |
| BUS2012 | Business Personal Law | T110A | Culinary Arts TCHS |
| BUS2014 | AP Computer Science Principles | T111A | Early Childhood Care \& Education TCHS |
| BUS2014B | AP Computer Science Principles Blended | T114A | Engine Technology TCHS |
| BUS2022 | Criminal Justice | T116A | Health Career Pathways TCHS |
| BUS2032 | Intro to Computer Programming Using C++ | T119A | HVAC \& Refrigeration Technology TCHS |
| BUS2042 | Sports \& Entertainment Marketing | T122A | Teacher Leadership Academy TCHS |

## WEEKLY TIME COMMITMENT CHART <br> Use this tool to plan a manageable schedule that accounts for the time required to meet your academic and personal goals.

Students should review the course level descriptions and note the anticipated homework time for each course. These estimates will vary by student and course, and are meant as a guide for appropriately placed students. Students who narrowly meet the departmental grade recommendation for a course should expect to spend more time than indicated for the course level. Students are most successful when they plan a realistic schedule that allows for a sufficient challenge while maintaining balance. Students who choose courses for which they do not have the time to devote are under considerable amount of stress, and their academic performance and personal well-being can be compromised. Make informed decisions now as to whether or not you realistically have the time to dedicate to the courses which you have selected.

| Courses Desired | Daily Homework/Study Time | Hours /week |
| :---: | :---: | :---: |
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| Total hours nee | d for Homework \& Study Time |  |
| Extra-Curricular Activities: List the time spent in athletics, perform employment, and any clubs or organizations, include travel time | ing arts, volunteer work, /from all activities. | Hours/ week |
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|  |  |  |
| Total hour | urs for Extra-Curricular Activities |  |
| Personal Time: Include work, watching TV, computer/TV time, sle | p, socializing, family time, etc.) | Hours/ week |
| Sleep | 8.25hr/day | 60 |
| In School | 7hr/day | 35 |
|  |  |  |
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|  |  |  |
|  |  |  |
| Add all shaded boxes together | tal of Committed Hours |  |
|  | Total number of hours in a week | 168 |
| minus - T | tal number of Committed Hours |  |
|  |  |  |
| April 13-April 21 ADD/DROP Course Requests |  |  |
| June 16 - June 25 Request Course Level Changes |  |  |

