



COUGAR

CAREER PATH(WAYS)



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CAREER PATH(WAYS)



**BUSINESS,
GOVERNMENT
& LEADERSHIP**



**HEALTH
& HUMAN
SERVICES**



S.T.E.E.M.



**GENERAL
STUDIES**



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GRADUATION REQUIREMENTS 2024, 2025, 2026 and 2027

In order for a student to receive a Harrisburg High School diploma, the student must complete all of the required course work, assessments (*including Keystone examinations*), and studies for the assigned instructional program the student is enrolled in from grades 9 through 12.

Beginning with the class of 2024, students will be required to earn a minimum of three math credits and seven elective credits.

CREDITS	SUBJECT	REQUIREMENTS	KEYSTONE EXAMINATION
4	English	English I, English II, English III, English IV	English II
3	Mathematics	Algebra I, Geometry, Algebra II	Algebra I
3	Science	Integrated Science, Biology, and one additional Science credit	Biology
3	Social Studies	Civics & U. S. History I, U. S. History II, and an one additional Social Studies credit	
1	Health	Health and Wellness 1 or Health Science I	
1	Physical Education	Physical Education 1 or Physical Education elective	
2	Humanities	Any courses that include world languages, visual arts, and performing arts courses.	
7	Electives	Any courses beyond the requirements	

KEYSTONE EXAM GRADUATION REQUIREMENTS

Starting with the class of 2023, students can meet this statewide graduation requirement by:

1. Scoring proficient or advanced on each Keystone Exam - Algebra I, Literature, and Biology at the end of the course or during a subsequent make-up session
2. Earning a satisfactory composite score on the Algebra I, Literature, and Biology Keystone Exams. The passing composite score is **4,452**.

GRADUATION REQUIREMENTS Class of 2028 and beyond

In order for a student to receive a Harrisburg High School diploma, the student must complete all of the required course work, assessments (*including Keystone examinations*), and studies for the assigned instructional program the student is enrolled in from grades 9 through 12.

Beginning with the class of 2028, students will be required to earn 21 total credits in the areas below:

CREDITS	SUBJECT	REQUIREMENTS	KEYSTONE EXAMINATION
4	English	English I, English II, English III, English IV	English II
3	Mathematics	Algebra I, Geometry, Algebra II	Algebra I
3	Science	Integrated Science, Biology, and one additional Science credit	Biology
3	Social Studies	Civics & U. S. History I, U. S. History II, and an one additional Social Studies credit	
0.5	Health	Health and Wellness 1 or Health Science I	
0.5	Physical Education	Physical Education 1 or Physical Education elective	
2	Humanities	Any courses that include world languages, visual arts, and performing arts courses.	
5	Electives	Any courses beyond the requirements	

Harrisburg School District’s Profile of a Graduate

ACADEMICALLY READY

- Demonstrates effective verbal, written, and communication knowledge & strategies
- Proficient in the core disciplines.
- Perseveres through difficulties.
- Seeks out and responds productively to feedback.
- Embraces a growth mindset.
- Demonstrates self-efficacy.

LIFE READY

- Possess self-management and self regulation skills
- Financially Literate
- Uses time wisely to set goals, complete tasks, and manage projects
- Advocates for oneself in education, employment and community

SELF AWARE

- Attends to social and emotional well being
- Identifies personal strengths and abilities
- Builds positive relationships
- Practices healthy habits and decision making

EFFECTIVE COMMUNICATOR

- Speaks and writes clearly
- Listens actively
- Ability to resolve conflict
- Adapts to the needs of an audience
- Engages responsibly with print and digital media
- Develops a responsible digital footprint

WORKPLACE & COLLEGE READY

- Understands a range of postsecondary options
- Creates a career plan
- Based on identified career interests and abilities, enrolls in college, military or enters the workforce.
- Demonstrates 21st century professional skills

GLOBAL CITIZEN

- Engages with the community responsibly
- Shows empathy and respect
- Seeks cultural understanding
- Makes safe, legal and ethical choices
- Demonstrates civic responsibility
- Participates in democratic process

This profile of a graduate is adapted from “The Power and Promise of Pathways,” Hans Meeder, NC3T Media

Harrisburg High School ACT 158 – Graduation Checklist

Student Name _____

PATHWAY 1 - KEYSTONE PROFICIENCY PATHWAY

Must score proficient or advanced on each Keystone exam.

Algebra 1 _____

Literature _____

Biology _____

PATHWAY 2 - KEYSTONE COMPOSITE PATHWAY

A composite score of **4452** on the Algebra I, Literature, & Biology Keystone exams while achieving at least a Proficient score on at least one of the three exams and no less than a Basic on the remaining two exams.

Composite Score _____

PATHWAY 3 - ALTERNATE ASSESSMENT PATHWAY

Must have **one** of the following:

_____ Score 1010 on the SAT, 970 on the PSAT, 21 on the ACT, or 31 on the ASVAB

_____ Successful completion of a college level course associated with each Keystone exam for which a not proficient or advanced (Algebra I, Literature, Biology)

_____ Successful completion of a Pre-Apprenticeship program

_____ Acceptance in an accredited 4 -year nonprofit institution of higher education and evidence of the ability to enroll in college-level coursework

Harrisburg High School ACT 158 – Graduation Checklist

PATHWAY 4 - EVIDENCE-BASED PATHWAY

MUST have at least 1 in this column

- _____ Acceptance to an accredited nonprofit institution of higher education other than a 4-year institution and evidence of the ability to enroll in college-level coursework
- _____ Industry Recognized Credentialization
- _____ Successful completion of a postsecondary course

MUST have 3 total pieces of evidence (from either column)

- _____ Satisfactory completion of a service-learning project
- _____ Attainment of a numerical score that is proficient or advanced on any Keystone Exam
- _____ A letter guaranteeing full-time employment
- _____ Successful completion of an Internship
- _____ Satisfactory compliance with the NCAA's core courses for college-bound student athletes with a minimum GPA of 2.0

Pennsylvania Pathways to Graduation

Keystone Proficiency Pathway Numeric or Non-Numeric Scores

Algebra I
Proficient or Advanced

Biology
Proficient or Advanced

Literature
Proficient or Advanced

Keystone Composite Pathway Numeric Scores Only

At least 1 Keystone Exam scaled score is 1500 or Greater

No Keystone Exam score is Below Basic

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

CTE Concentrator

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

CTE Concentrator
1 Artifact from pathway criteria

Alternative Assessment

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

Alternative Assessment
1 Artifact from pathway criteria

Evidence-Based Pathways

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

Evidence-Based
3 Artifacts from pathway criteria

Waiver

A student in 12th grade, or experiencing extenuating circumstances, who meets locally established grade-based requirements for Keystone content area(s) in which the student is less than proficient, and is unable to satisfy the requirements of a graduation pathway may be granted a waiver by the chief school administrator.

Individualized Education Plan

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

NOTE: Although this infographic displays a sequential progression, students may fulfill criteria under the CTE Concentrator, Alternative Assessment, or Evidence-Based Pathways prior to demonstrating proficiency in Keystone academic content through Keystone Exam scores or locally established grade-based requirements.

Pathway Criteria

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

Grade Point Average: GPA Grades 9-12

1. A current GPA is computed for students for every marking period. In addition to the current GPA, a cumulative marking period GPA is generated for marking periods 2 and 3.
2. A final, end-of-year GPA will appear on the student's marking period 4 report card.
3. Class rank is determined for the graduating senior class as follows:
 - a. The cumulative GPA is continuously averaged for students from the start of their freshman year to the end of their senior year. Graduation ranks will be computed at the end of Marking Period 3 of the senior year.
 - b. The student with the highest GPA from the start of his/her freshman year to the end of his/her senior year is the **Valedictorian**.
 - c. The student with the second-highest GPA from the start of his/her freshman year to the end of his/her senior year is the **Salutatorian**.

GRADING SCALE		
A	90-100%	4.0
B+	85-89%	3.5
B	80-84%	3.0
C+	75-79%	2.5
C	70-74%	2.0
D+	65-69%	1.5
D	60-64%	1.0
F	0-59%	0

Grade Weighting System Grades 9-12

If a student takes an Advanced or Honors course the Quality Points, as outlined above, will be multiplied by a weight of 1.05. A student taking an Advanced Placement (AP) or a Dual Enrollment (DE) course, the Quality Points, as outlined above, will be multiplied by a weight of 1.1. For example:

ADVANCED/HONORS (x1.05)		
A	90-100%	4.2 Quality Points
B+	85-89%	3.465 Quality Points
B	80-84%	3.150 Quality Points
C+	75-79%	2.415 Quality Points
C	70-74%	2.1 Quality Points
D+	65-69%	1.365 Quality Points
D	60-64%	1.050 Quality Points
F	0-59%	0.0 Quality Points

ADVANCED PLACEMENT/DUAL ENROLLMENT (x1.1)		
A	90-100%	4.4 Quality Points
B+	85-89%	3.63 Quality Points
B	80-84%	3.3 Quality Points
C+	75-79%	2.53 Quality Points
C	70-74%	2.20 Quality Points
D+	65-69%	1.43 Quality Points
D	60-64%	1.10 Quality Points
F	0-59%	0.0 Quality Points

****All grade weights will be automatically calculated on student transcripts. Teachers of honors, Dual Enrollment and AP courses must only provide the appropriate letter grade on the report card**

Criteria for Honors & Advanced Placement (AP)

It is highly recommended that students have a strong attendance pattern and a history of high-quality academic performance in the subject or related subject areas to be considered for Honors or Advanced Placement Courses. For example:

Maintain a grade of: **90% or higher** in the prerequisite non-honors course
 — OR
 Score of **Proficient or Advanced** in previous grades PSSA or Keystone exam
 — OR
85% or higher in the prerequisite honors course

For admission into Advanced Placement courses, the above criteria will be considered. PVAAS projection scores may be utilized to make appropriate educational placement decisions. Finally, parent/guardian and student may meet with an administrator to seek approval for Honors and AP courses.

Course Failures

Students who receive a failing grade in a required course are recommended to retake the course.

Changing a Course or Instructional Course Levels

Concerns with schedule can be reviewed on a case-by-case basis with an administrator **within the first five days** of the semester if the conditions below are met.

Course Change Requests will be considered only if they meet one of the following criteria:

- Academic misplacement as determined by previous subject grades, related standardized test scores, teacher information, evidence of sufficient student effort, and administrative approval
- Missing a graduation requirement or college admissions recommendation
- Missing a course prerequisite
- Dropping a less difficult course for a more difficult course as approved by the student's assigned principal

Career Portfolio

By 2025, more than six in 10 Pennsylvania jobs will require some form of postsecondary education or training. Pennsylvania’s economic future depends on having a well-educated and skilled workforce that is prepared to meet the current and projected demands of a global, knowledge-based 21st century economy. Therefore, it is imperative that Pennsylvania students at all educational levels have access to high-quality academic and technical education, as well as opportunities to assess interests, build skills, and identify and explore careers aligned to those interests and skills. Regardless of post-secondary plans, all students should leave high school with a solid foundation in Career, Education and Work (CEW) standards.

By the end of grade 11, students must have a portfolio containing both the K-5 and 6- 8 grade band evidence, **and an additional eight pieces of evidence, or at least two pieces of evidence each year, collected in the 9- 11 grade band that validates all four strands** of the CEW standards. At least two of these pieces of evidence for the 9-11 grade band must demonstrate implementation of the student’s individualized career plan. (Source: Pennsylvania Regulation Chapter 339)

Students will complete the following pieces of evidence in the following courses.

GRADE	EVIDENCE	COURSE COMPLETED & COLLECTED
9	Holland Career Interest Inventory Results	Freshman Seminar
9	Career Presentation/Guest Speaker Reflection	Freshman Seminar
9	Career and Academic Plan/Academy Selection Form	Freshman Seminar
10	Career Presentation/Guest Speaker Reflection	Social Studies
10	Student Resume	English II
10	Career Presentation/Guest Speaker Reflection	English II
11	College Tour Reflection Or Job Shadowing/Interview Reflection	Social Studies
11	College and Career Fair Reflection	English III

Portfolio Checklist

<p>12th Grade Year - Portfolio Checklist</p> <ul style="list-style-type: none"> <input type="checkbox"/> Senior Meeting with school counselor <input type="checkbox"/> Update/Revise Resume <input type="checkbox"/> Secure 3 Letters of recommendation <input type="checkbox"/> Review/Modify Pathways to Graduation Plan 	<p>12th Grade Year - College/Career Planning</p> <ul style="list-style-type: none"> <input type="checkbox"/> Consider dual enrollment classes at partner schools-Temple, Harrisburg University and HACC <input type="checkbox"/> Attend a financial aid session. <input type="checkbox"/> Apply for scholarships-Complete the TREC Universal Application <input type="checkbox"/> Apply to college-use the Common Application and Choices 360 Programs <input type="checkbox"/> Participate in a job shadow, career mentoring session, field trips and/or a job fair. <input type="checkbox"/> Consider military, apprenticeships, and employment opportunities.
<p>11th Grade Year - Portfolio Checklist</p> <ul style="list-style-type: none"> <input type="checkbox"/> Junior Meeting with School Counselor <input type="checkbox"/> College Tour or Job Shadow Interview and Reflection <input type="checkbox"/> College and Career Fair Reflection <input type="checkbox"/> Complete Pathways to Graduation Plan 	<p>11th Grade Year - College/Career Planning</p> <ul style="list-style-type: none"> <input type="checkbox"/> Talk to school team about post-secondary options <input type="checkbox"/> Review Keystone Scores and Graduation Pathways requirements <input type="checkbox"/> Take PSAT, SAT, ACT and/or ASVAB <input type="checkbox"/> Work or Volunteer in career field <input type="checkbox"/> Consider Dual enrollment options <input type="checkbox"/> Complete Choices 360 Activities
<p>10th Grade Year - Portfolio Checklist</p> <ul style="list-style-type: none"> <input type="checkbox"/> Sophomore Meeting with School Counselor <input type="checkbox"/> Create student resume <input type="checkbox"/> Attend Career Presentation/Guest Speaker and Complete Reflection 	<p>10th Grade Year - College/Career Planning</p> <ul style="list-style-type: none"> <input type="checkbox"/> Attend College/Career Field Trips <input type="checkbox"/> Continue Volunteer experiences <input type="checkbox"/> Complete Activities in Choices 360 <input type="checkbox"/> Continue challenging classes and academic achievements
<p>9th Grade Year - Portfolio Checklist</p> <ul style="list-style-type: none"> <input type="checkbox"/> Freshman Meeting with School Counselor <input type="checkbox"/> Complete Pathway Selection and update <input type="checkbox"/> Individual Student Career Plan 	<p>9th Grade Year - College/Career Planning</p> <ul style="list-style-type: none"> <input type="checkbox"/> Attend summer bridge program/freshman orientation sessions. <input type="checkbox"/> Consider Volunteer experiences <input type="checkbox"/> Review credit requirements and graduation pathway requirements (Keystone Scores etc) <input type="checkbox"/> Take Challenging Courses and achieve the highest GPA you can

NCAA Initial Athletic Eligibility Requirements: Division I and Division II

NCAA Division I and II colleges and universities require sixteen (16) core courses.

Currently, NCAA Division I colleges and universities require ten (10) core courses to be completed prior to the seventh semester of high school (the beginning of the senior year). Of these ten courses, seven (7) of the required courses must be a combination of English, math, or natural/physical science that meet the distribution requirements below. These ten (10) required courses become “locked in” at the start of the seventh semester and cannot be retaken for grade improvement. Also, it will be possible for a Division I college-bound student-athlete to receive athletic aid and the ability to practice with the team if he or she fails to meet the ten-course requirement but would not be able to compete.

Beginning with the class of 2024, students will be required to earn a minimum of three math credits and seven elective credits.

Core Courses for Divisions I & II Colleges and Universities

DIVISION I	DIVISION II
4 Years English	3 Years English
3 Years Math	3 Years Math
2 Years Natural/Physical Science (Includes 1 Lab Class)	2 Years Natural/Physical Science (Includes 1 Lab Class)
1 Year Additional English, Math or Natural/Physical Science	1 Year Additional English, Math or Natural/Physical Science
2 Years of Social Science	2 Years of Social Science
4 Years of Additional Courses (From any of the areas above, World Language, Comparative Religion/Philosophy)	4 Years of Additional Courses (From any of the areas above, World Language, Comparative Religion/Philosophy)
Any courses that include world languages, visual arts, and performing arts courses.	
Any courses beyond the requirements	

Test Scores

- Division I uses a sliding scale to match test scores and core grade-point averages (GPA). The sliding scale for those requirements is available in the Counseling Office.
- Division II requires a minimum SAT score of 820 or an ACT sum score of 68.
- The SAT score used for NCAA purposes includes only the critical reading and math sections. The writing section is not used.
- The ACT score used for NCAA purposes is a sum of the English, math, reading, and science sections.
- When students register for the SAT or ACT, use the NCAA Eligibility code of 9999 to ensure all scores are reported directly to the NCAA eligibility center from the testing agency. Test scores from transcripts will not be used.

Grade Point Average

- Examine the Harrisburg High School list of approved NCAA courses, which are available at the NCAA Eligibility Center website, www.eligibilitycenter.org. **The NCAA GPA is calculated using NCAA core courses only.**
- The minimum required Division I core GPA to receive athletic aid and practice *after* August 1, 2016, is 2.000. Corresponding test-score requirements are listed on **Sliding Scale B** (*available in the Counseling Office*).
- The minimum Division I core GPA required to be eligible for competition *after* August 1, 2016, is Corresponding test-score requirements are listed on **Sliding Scale B** (*available in the Counseling Office*).
- The Division II core GPA requirement is a minimum of 2.000.

Special Education Services

Students designated as eligible for special education or 504 services can receive Special Education services or accommodations in any secondary program offered by the school district.

Special education programming has been designed for students who have been identified by a multi-disciplinary evaluation (MDE) process and have an individualized educational program (IEP), which is written to define a student's specific learning difficulties and determine eligibility for special education services. Special education is governed by federal and state mandates, which the District is required to provide to students with designated needs.

The Special Education Program at JHHS includes: Learning Support, Life Skills Support, Multiple Disabilities Support, Autism Support, and Emotional Support classrooms. In addition, speech and other related services are provided as per student IEP. Support students are instructed with material appropriate for their academic levels, interests, and learning styles.

English Language Development

The goal of the Harrisburg School District's English Language Development (ELD) Program is to facilitate the development of English language proficiency in social and academic language while allowing the students to achieve grade-level standards to succeed in mainstream classes, higher education, the workplace, and society in general.

The ELD program utilizes Pennsylvania Core Standards in conjunction with Pennsylvania English Language Development Standards (PAELDS) and the 2020 WIDA Standards Framework to deliver curriculum and instruction. Instructional modes include English-only in Sheltered English courses or Mixed Classes with English-only support. Students in Sheltered core English classes also engage in ELD Academic Lab as an English elective to enhance their English language development skills. Progress is assessed annually using the WIDA ACCESS for ELs 2.0 assessment to determine proficiency levels and appropriate placement for the following year. English language learners participate in all required content area courses for graduation, following the same outline and requirements as other grade levels. Efforts are made to accommodate speakers of other languages within general course offerings, ensuring equal access. Itinerant ESL K-12 Program Specialists provide language support in core content classes using co-teaching and small group. All teachers are responsible to utilize scaffolding instruction, manipulatives, and multimodal strategies to monitor the progress of English Language Development while communicating with families in their preferred language.

SPECIAL PROGRAMS

ADVANCED PLACEMENT PROGRAM

The Advanced Placement (AP) program is a curriculum that is designed and sponsored by the College Board. Advanced Placement courses are standardized courses offered in individual subjects that are meant to be comparable to college level courses. It allows high school students to undertake college-level academic learning in AP courses and gives them the opportunity to show that they have mastered the advanced material by taking AP exams. Students can receive credit and/or advanced placement from thousands of colleges and universities that participate in the Advanced Placement Program. AP courses make substantial academic demands on students. Students are required to complete outside reading and other assignments and to demonstrate the analytical skills and writing abilities expected of first-year students. This experience helps students develop the intellectual skills and self-discipline they will need in college. For motivated students, AP can also reduce college costs and the time required to obtain a degree.

Program Liaisons: School Counselors

COOPERATIVE EDUCATION

Seniors who have earned sufficient credits to participate in the Cooperative Education Program may be excused from school to work at a part-time job. Arrangements for participation in this program must be made with the counselor and employer and be approved by the Cooperative Education coordinator and parents. Students will be required to collaborate with the Cooperative Education teacher on the design of a co-operative education training plan that will be aligned to the students' identified career pathway.

Work Experience

Seniors and other selected students (as determined by the IEP team) who have earned sufficient credits to participate in the Work Experience Program may be excused from school to work at a part-time job.

Arrangements for participation in this program must be made with the counselor and employer and be approved by the Transition Coordinator and parents. It is understood that the student must be enrolled and passing the classes necessary for graduation.

CREDIT RECOVERY

Definition of Credit Recovery

Credit recovery is a strategy that encourages at-risk students to retake a previously failed course required for high school graduation and earn credit if the student successfully completes the course requirements. The strategy was designed to provide a pathway for high school students who have a history of course failure and help them avoid falling further behind in school (U.S. Department of Education 2015b). Credit recovery courses may be available online or in alternative settings but are not a guaranteed option. Students should strive to pass all classes without exception.

DUAL ENROLLMENT AND COLLEGE IN THE HIGH SCHOOL

Dual enrollment, or **concurrent enrollment** as it is also known, is the practice of allowing a student to be **enrolled** in two academic institutions at once. Usually, this involves a high school and a college. The credits apply both to high school diploma requirements and college graduation requisites. Currently, Harrisburg School District has a partnership with Harrisburg University, HACC, and Temple for Dual Enrollment opportunities for qualifying students.

NJROTC PROGRAM (NAVY JUNIOR RESERVE OFFICER TRAINING CORPS)

Prerequisite to the program at Harrisburg High School:

- Be enrolled in and attending a regular course of instruction at the school hosting the unit, in grades 9 through 12.
- Be a U.S. citizen or national or alien lawfully admitted to the U.S. for permanent residence.
- Be physically qualified to participate fully in the physical education program in the school. For exception to this enrollment requirement – see the Naval Science instructor
- Be selected by the NJROTC Naval Science Instructor with the approval of the student’s assigned principal or his/her representative.
- Maintain acceptable standards of academic achievement and an academic standing that warrants at least normal progression leading to graduation.
- Maintain acceptable standards of conduct.
- Comply with the personal grooming standards as set forth in the NJROTC Cadet Field Manual.

SCHOOL OF BUSINESS AND INDUSTRY

The goal of The School of Business & Industry Honors Preparatory Program is to orient potentially high achieving students to the world of business and industry. Students learn business concepts and develop skills that are fundamental to academic success. This is done, in part, by promoting excellence in communication, research, organization and leadership. Students are also provided with opportunities to prepare for College Board examinations and are involved in diverse courses. Program activities also include peer leadership and mediation training.

SBI is a four-year accelerated honors program with Introduction to SBI & Professional Development beginning in the 9th grade. The SBI program is a developed and proven concept that complements our high school curriculum as well as better prepares our students for the future. With a background as a Harrisburg High SBI prep scholar, students will succeed. Students enrolled in the SBI program have the opportunity to apply for scholarships to attend Florida A & M University.

Program Objectives:

The objectives of the SBI Honors Prep Program are:

- To enhance and develop students’ critical thinking, listening, oral and written communication, and test taking skills
- To increase the student’s knowledge and understanding of the real corporate world
- To provide students with an opportunity to understand and appreciate team participation and dynamics
- To build student leadership skills
- To improve the students’ self-esteem
- To enhance students’ overall preparation for post-secondary education and/or the world of work
- To increase the business sector’s support of and involvement in Harrisburg High School
- To expose students to entrepreneurship
- To guide students in making the proper career choices

ATHLETICS AND AFTER SCHOOL ACTIVITIES

The athletic and music programs of Harrisburg High School are integral parts of the total educational program. The intent of these programs is to impart sound learning experiences, skills, and attitudes that are necessary for success in school and in life. Harrisburg School District offers opportunities for high school students to participate in the following programs:

Band Front	Vocal Ensemble	Cross Country	Softball & Tennis
Jazz Ensemble	Baseball	Football	Track and Field
Marching Band	Basketball	Indoor Track and Field	Volleyball
Orchestra	Cheerleading	Soccer	Wrestling

RECOMMENDED CORE COURSE PROGRESSION

CREDITS	9TH GRADE	10TH GRADE	11TH GRADE	12TH GRADE
English Language Arts	English I	English II	English III	English IV
	Honors English I	Honors English II	Honors English III	AP Literature and Composition
English Language Development <i>*Every effort will be made to assign all SLIFE scholars to the same course sections</i>	Beginner English I/ ELD Academic Lab I or ELD English I/ ELD Academic Lab I or English I with co-taught support	Beginner English II/ ELD Academic Lab II or ELD English II/ ELD Academic Lab II or English II with co-taught support	Beginner English III/ ELD Academic Lab III or English III with co-taught support	ELD English IV/ ELD Academic Lab IV or English IV with co-taught support
Mathematics	Algebra I	Geometry	Algebra II	Probability & Statistics or Pre-Calculus or Trigonometry or Financial Literacy
	Honors Algebra I	Honors Geometry	Honors Algebra II	Honors Probability & Statistics or Honors Pre-Calculus
Science	Integrated Science	Biology	Chemistry or Environmental Science or Physics	Electives
	Honors Integrated Science	Honors Biology or Honors Chemistry	Honors Chemistry or Honors Physics	Electives or AP Biology*
Social Studies	Civics & U. S. History	U.S. History II	Your Government, Your World/ Contemporary World Studies	Electives
	Honors Civics & U.S. History	Honors U.S. History II	Honors Your Government, Your World	Electives



COUGAR

CAREER PATH(WAYS)

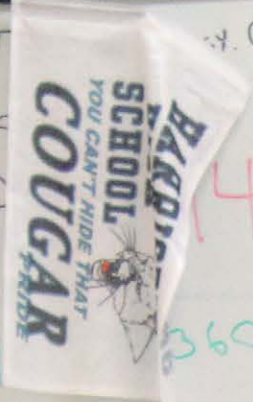


Choosing a career pathway in high school is crucial for several reasons:

1. **Early preparation:** selecting a career pathway in high school allows you to start preparing early for your chosen field. This may involve taking specific courses, gaining relevant experience through internships or part-time jobs, and developing skills that are essential for success in that particular career.
2. **Focused academic pursuits:** knowing your career goals enables you to tailor your high school curriculum to align with your chosen pathway. This can help you stay motivated and engaged in your studies, as you can see the direct relevance of what you're learning to your future career.
3. **Exploration and discovery:** high school is a time for exploration and self-discovery. Choosing a career pathway gives you the opportunity to explore various fields of interest through classes, extracurricular activities, and informational interviews. This exploration can help you gain insights into your strengths, passions, and values, guiding you towards a career that is fulfilling and rewarding.
4. **College and post-secondary planning:** many colleges and universities look for applicants who demonstrate a clear sense of purpose and direction. By choosing a career pathway in high school, you can better articulate your goals and aspirations in your college applications, making you a more competitive candidate. Additionally, knowing your career goals early on can help you select the right college, major, or vocational program that will best prepare you for your desired career.
5. **Time and resource management:** high school is a time when you're learning to manage your time and resources effectively. Choosing a career pathway requires careful planning and organization to ensure that you're taking the necessary steps to achieve your goals. By learning to manage your time and resources efficiently in high school, you'll develop valuable skills that will serve you well throughout your career journey. In summary, choosing a career pathway in high school is important because it allows you to prepare early, focus your academic pursuits, explore different fields, plan for college or post-secondary education, and develop essential time and resource management skills. This early preparation can set you on the path to a successful and fulfilling career.

A GOAL WITHOUT A PLAN IS JUST A WISH

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BUSINESS, GOVERNMENT & LEADERSHIP PATHWAY



**BUSINESS
ADMINISTRATION
& PROJECT
MANAGEMENT**



**CYBER
SECURITY**



**TRANSPORTATION
& LOGISTICS**



**MILITARY
SCIENCE**



BUSINESS, GOV'T. LEADERSHIP PATHWAY

This pathway is designed for students to grow their interests and exposure in business administration, project management, cyber security, military science, transportation and logistics.

PATHWAY CLUSTER AREAS

Business Administration

Are you interested in:

- A business environment
- Office Management
- Data processing and collection
- Solving problem
- Managing Time, People, Budgets

Can you:

- Work easily with others
- Organize your time efficiently
- Show initiative
- Influence others
- Use computers and other tech

If you can answer “yes” to most of these questions, you might consider a future in one of the sample occupations listed below with their level of postsecondary training.

ENTRY LEVEL (ON THE JOB TRAINING)

Customer Service Rep
Administrative Assistant
Data Entry Clerk

TECHNICAL/SKILLED (1-3 YEARS)

Loan Officer
Bookkeeper
Entrepreneur

PROFESSIONAL (4 OR MORE YEARS)

Marketing Manager Accountant
Human Resources Manager Financial Manager
General Manager Sales Manager

PATHWAY CERTIFICATIONS (NOT ALL INCLUSIVE)

Certified Application Security Engineer
Cisco Meraki Solutions Specialist
Certified Information Systems Security Professional - Architecture
SAP Certified Application Associate - SAP S/4HANA Portfolio and Project Management
Project Management Professional
Associate Professional in Human Resources (aPHR)
Professional in Human Resources (PHR)
Senior Professional in Human Resources (SPHR)
Certified Ethical Hacker (CEH)
Computer Hacking Forensic Investigator
CISA: Certified Information Systems Auditor
CISM: Certified Information Security Manager
Business Analysis Certification (IIBA – CBDA)

BUSINESS ADMINISTRATION AND PROJECT MANAGEMENT

Career Pathway Plan of Study for ▶ **Students** ▶ **Parents** ▶ **Counselors** ▶ **Teachers/Faculty**

Credits Needed for Graduation		4	3	3	3	1 Health and PE; 2 Humanities	5 Electives Total		
LEVEL	GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES/ SOCIAL SCIENCES	OTHER REQUIRED COURSES	*CAREER-RELATED ELECTIVES		
	SECONDARY	9	English I / English I Honors	Algebra I / Algebra I Honors	Integrated Science / Integrated Science Honors	*(Physics Honors, Environmental Science)	Freshman Seminar	Health/PE	Career-Related Electives
		10	English II / English II Honors	Geometry / Geometry Honors	Biology / Biology Honors / AP Biology	US History II / US History II Honors	World Language Or Humanities	Intro to SBI	Career-Related Electives
		11	English III / English III Honors	Algebra II / Algebra II Honors	Chemistry / Chemistry Honors / Enviro Science / Earth Science	Contemporary World Issues / Your Government Your World (H)	Health, World Language or Humanities	Accounting I / Accounting II	Career-Related Electives
		12	English IV / AP Lit and Comp	*(PreCalculus, PreCalculus Honors or Probability and Statistics Honors)	*(Physics Honors, Environmental Science)	*(African American Studies / Psychology / Sociology)	**Dual Enrollment / Financial Literacy	#Senior Seminar	Career-Related Electives

*Not Required for Graduation

Electives / Career Development	Add. Electives (Building Level)	Career Development / Career Portfolio (Artifacts)	Awards, Certificates, Scholarships
	<ul style="list-style-type: none"> Accounting I and II SBI Program Marketing Engineering Personal and Business Business Essentials I and II Youth Court I and II Criminal Justice I and II Latinx Studies Public Speaking 	<p>Students will complete a number of career exploration activities that will develop their career portfolio and support their senior seminar. These activities include, but are not limited to:</p> <ul style="list-style-type: none"> Career Profile Research Career Fairs Pre-apprenticeship Business/Industry Tours Guest Speakers/Lunch N Learn Career Exploration Immersion Programs Job Shadowing Business or Community-based projects Work-Based Learning 	<p>**Dual Enrollment/Dual Credit</p> <p>Advanced students may take college courses in aligned post-secondary programs for dual credit.</p> <p>Students may be required to take college placement testing in reading and writing in order to register for college courses.</p> <p>Business Admin and Project Management: MEBA 110 (HU) <i>Introduction to Business and Entrepreneurship</i>; IMED 110 (HU) <i>Introduction to Digital Design</i>; ACCT 150 (HACC) <i>Principles of Financial Accounting I</i>; ACCT 151 (HACC) <i>Principles of Financial Accounting II</i>; *ENG 105 (HU) <i>College Composition</i>, COMM 110 (HU) <i>Speech</i> are recommended for any pathway</p>

#Senior Seminar:

- Quarter 1:** Resume Building
- Quarter 2:** Interview Skills
- Quarter 3:** Personal Finance
- Quarter 4:** Employability Skills

Occupations Relating to This Pathway

- Financial Manager
- Bookkeeper
- Entrepreneur
- Marketing Manager
- Human Resource Manager
- Accountant
- Auditor
- Market Research Analyst
- Project Manager
- Business Development Manager

BCL

BUSINESS, GOV'T. LEADERSHIP PATHWAY

This pathway is designed for students to grow their interests and exposure in cyber security.

PATHWAY CLUSTER AREAS

Cyber Security

Are you interested in:

- A business environment
- Office Management
- Serving your country
- Computer and Technology
- Managing Time, People, Budgets
- Protecting Society

Can you:

- Work easily with others
- Organize your time efficiently
- Use computers and other tech
- Solve problems
- Work on a team
- Show initiative

If you can answer “yes” to most of these questions, you might consider a future in one of the sample occupations listed below with their level of postsecondary training.

ENTRY LEVEL (ON THE JOB TRAINING)

Security Analysts
IT Auditor
Cyber Crime Analyst

TECHNICAL/SKILLED (1-3 YEARS)

Penetration Tester
Security Specialist
Information Tech Support

PROFESSIONAL (4 OR MORE YEARS)

Cyber Security Engineer Cyber Security Architect
Cyber Security Manager Network Engineer
Information Technology Cyber Security Consultant

PATHWAY CERTIFICATIONS (NOT ALL INCLUSIVE)

IBM Certified Specialist - SPSS Modeler Professional v3
Enterprise Administration Associate 10.5
Enterprise Geodata Management - Associate 10.5
Oracle Data Integrator 12c Essentials
MongoDB Certified Developer, Associate
NetApp Certified Storage Associate - Hybrid Cloud
SAS Certified Advanced Analytics Professional Using SAS 9

CYBER SECURITY

Career Pathway Plan of Study for ▶ Students ▶ Parents ▶ Counselors ▶ Teachers/Faculty

Credits Needed for Graduation		4	3	3	3	1 Health and PE; 2 Humanities	5 Electives Total		
LEVEL	GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES/ SOCIAL SCIENCES	OTHER REQUIRED COURSES	*CAREER-RELATED ELECTIVES		
	SECONDARY	9	English I / English I Honors	Algebra I / Algebra I Honors	Integrated Science / Integrated Science Honors	Civics / US History I / US History I Honors	Freshman Seminar	Health/PE	Career-Related Electives
		10	English II / English II Honors	Geometry / Geometry Honors	Biology / Biology Honors / AP Biology	US History II / US History II Honors	World Language Or Humanities	Economics (HVLA), Public Speaking	Career-Related Electives
		11	English III / English III Honors	Algebra II / Algebra II Honors	Chemistry / Chemistry Honors / Enviro Science / Earth Science	Contemporary World Issues / Your Government Your World (H)	Health, World Language or Humanities	Contemporary World Issues	Career-Related Electives
		12	English IV / AP Lit and Comp	*(PreCalculus, PreCalculus Honors or Probability and Statistics Honors)	*(Physics Honors, Environmental Science)	*(African American Studies / Psychology / Sociology)	**Dual Enrollment / Financial Literacy	#Senior Seminar	Career-Related Electives

*Not Required for Graduation

Electives / Career Development	Add. Electives (Building Level)	Career Development / Career Portfolio (Artifacts)	Awards, Certificates, Scholarships
	<ul style="list-style-type: none"> Digital Design African American Studies Video Game Design I Video Game Design II Animation I Animation II Financial Literacy Public Speaking 	<p>Students will complete a number of career exploration activities that will develop their career portfolio and support their senior seminar. These activities include, but are not limited to:</p> <ul style="list-style-type: none"> Career Profile Research Career Fairs Pre-apprenticeship Business/Industry Tours Guest Speakers/Lunch N Learn Career Exploration Immersion Programs Job Shadowing Business or Community-based projects Work-Based Learning 	<p>**Dual Enrollment/Dual Credit</p> <p>Advanced students may take college courses in aligned post-secondary programs for dual credit.</p> <p>Students may be required to take college placement testing in reading and writing in order to register for college courses.</p> <p>Cyber Security: ADMA 115 (HU) <i>Microcomputer Applications in Technology</i> CISC 103 (HU) <i>Introduction to Computers and Information Technology</i> WEB 101 (HACC) <i>Intro to Web Design and Development</i> WEB 110 (HACC) <i>Website Creation and CMS</i> *ENG 105 (HU) <i>College Composition</i> COMM 110 (HU) <i>Speech are recommended for any pathway are recommended for any pathway</i></p>

#Senior Seminar:

- Quarter 1:** Resume Building
- Quarter 2:** Interview Skills
- Quarter 3:** Personal Finance
- Quarter 4:** Employability Skills

Occupations Relating to This Pathway

- Security Analyst
- Cyber Crime Analyst
- Cyber Security Engineer
- IT Auditor
- Penetration Tester
- Information Security Analyst
- Information Technology Support
- Network Engineer

BUSINESS, GOV'T. LEADERSHIP PATHWAY

This pathway is designed for students to grow their interests and exposure in business administration, project management, cyber security, military science, transportation and logistics.

PATHWAY CLUSTER AREAS

Military Science

Are you interested in:

- A business environment
- Office Management
- Serving your country
- Computer and Technology
- Managing Time, People, Budgets
- Transportation

Can you:

- Work easily with others
- Organize your time efficiently
- Use computers and other tech
- Solve problems
- Work on a team
- Show initiative

If you can answer “yes” to most of these questions, you might consider a future in one of the sample occupations listed below with their level of postsecondary training.

ENTRY LEVEL (ON THE JOB TRAINING)

Customer Service
Officer
Account Executive
Data Entry
Stock/Material Mover

TECHNICAL/SKILLED (1-3 YEARS)

Dispatcher
Military Police
Information Systems Technician
Penetration Tester
Logistic Analyst

PROFESSIONAL (4 OR MORE YEARS)

Marketing Manager	Naval Flight Officer
Human Resources	Financial Manager
Project Manager	General Manager
Transportation Supervisor	Information Technology
Warehouse Manager	Cyber Security Professional

PATHWAY CERTIFICATIONS (NOT ALL INCLUSIVE)

Certified Planning Engineer
Certified Waste Management Professional
Project Management Professional
Certified Technical Professional
Certified Director of Safety

MILITARY SCIENCE

Career Pathway Plan of Study for ▶ **Students** ▶ **Parents** ▶ **Counselors** ▶ **Teachers/Faculty**

Credits Needed for Graduation	4	3	3	3	1 Health and PE; 2 Humanities	5 Electives Total		
LEVEL	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES/ SOCIAL SCIENCES	OTHER REQUIRED COURSES	*CAREER-RELATED ELECTIVES		
SECONDARY	9	English I	Algebra I	Integrated Science	Civics	Freshman Seminar	Health/PE	Career-Related Electives
	10	English II	Geometry	Biology	US History II	World Language Or Humanities	Naval Science	Career-Related Electives
	11	English III	Algebra II	Chemistry	Your Government Your World	Health, World Language or Humanities	Naval Science	Career-Related Electives
	12	English IV	*(PreCalculus, Calculus or Statistics)	*(Physics, Environmental Science)	*(AP Psychology / Psychology / Sociology)	**Dual Enrollment / Financial Literacy	#Senior Seminar	Career-Related Electives

*Not Required for Graduation

Electives / Career Development	Add. Electives (Building Level)	Career Development / Career Portfolio (Artifacts)	Awards, Certificates, Scholarships
	<ul style="list-style-type: none"> Contemporary World Issues NJROTC Intro to Law Enforcement Economics Public Speaking 	<p>Students will complete a number of career exploration activities that will develop their career portfolio and support their senior seminar. These activities include, but are not limited to:</p> <ul style="list-style-type: none"> Career Profile Research Career Fairs Pre-apprenticeship Business/Industry Tours Guest Speakers/Lunch N Learn Career Exploration Immersion Programs Job Shadowing Business or Community-based projects Work-Based Learning 	<p>**Dual Enrollment/Dual Credit</p> <p>Advanced students may take college courses in aligned post-secondary programs for dual credit.</p> <p>Students may be required to take college placement testing in reading and writing in order to register for college courses.</p> <p>Military Science: GSTC 107 (HU) <i>Remote Pilot Certification</i> FORS 125 (HU) <i>Forensic Science</i> PSPL 110 (HACC) <i>Introduction to Public Policy</i> PSPL 202 (HACC) <i>State and Local Government</i> *ENG 105 (HU) <i>College Composition</i> COMM 110 (HU) <i>Speech</i> are recommended for any pathway</p>

#Senior Seminar:

- Quarter 1:** Resume Building
- Quarter 2:** Interview Skills
- Quarter 3:** Personal Finance
- Quarter 4:** Employability Skills

Occupations Relating to This Pathway

- Military Police
- Logistic Analyst
- Human Resources
- Warehouse Manager
- Cyber Security Professional
- Project Manager
- Transportation Supervisor
- Naval Flight Officer
- General Manager
- Stock/Material Mover

BCL

BUSINESS, GOV'T. LEADERSHIP PATHWAY

This pathway is designed for students to grow their interests and exposure in business administration, project management, cyber security, military science, transportation and logistics.

PATHWAY CLUSTER AREAS

Transportation and Logistics

Are you interested in:

- A business environment
- Office Management
- Serving your country
- Computer and Technology
- Managing Time, People, Budgets
- Transportation

Can you:

- Work easily with others
- Organize your time efficiently
- Use computers and other tech
- Provide leadership
- Work on a team
- Analyze data

If you can answer “yes” to most of these questions, you might consider a future in one of the sample occupations listed below with their level of postsecondary training.

ENTRY LEVEL (ON THE JOB TRAINING)

Entry-Level Logistician
Data Entry
Stock/Material Mover

TECHNICAL/SKILLED (1-3 YEARS)

Dispatcher
Deliver Lead
Logistic Analyst

PROFESSIONAL (4 OR MORE YEARS)

Transportation Supervisor Logistics Manager
Warehouse Manager Distribution Engineer

PATHWAY CERTIFICATIONS (NOT ALL INCLUSIVE)

Certified Logistics Technician
Certified Member
Class B Underground Storage Tank System Operator
Certified Professional in Distribution and Warehouse Management
Certified Safety Supervisor
Certified Director of Maintenance/Equipment
Certified Supervisor of Maintenance/Equipment
Certified Director of Safety
Certified International Trade Manager
Operations and Performance Management Professional
Certified Administrator of Public Parking
Director of Pupil Transportation

TRANSPORTATION AND LOGISTICS

Career Pathway Plan of Study for ▶ Students ▶ Parents ▶ Counselors ▶ Teachers/Faculty

Credits Needed for Graduation		4	3	3	3	1 Health and PE; 2 Humanities	5 Electives Total	
LEVEL	GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES/ SOCIAL SCIENCES	OTHER REQUIRED COURSES	*CAREER-RELATED ELECTIVES	
	9	English I / English I Honors	Algebra I / Algebra I Honors	Integrated Science / Integrated Science Honors	Civics / US History I / US History I Honors	Freshman Seminar	Health/PE	Career-Related Electives
	10	English II / English II Honors	Geometry / Geometry Honors	Biology / Biology Honors / AP Biology	US History II / US History II Honors	World Language Or Humanities	Intro to SBI	Career-Related Electives
	11	English III / English III Honors	Algebra II / Algebra II Honors	Chemistry / Chemistry Honors / Enviro Science / Earth Science	Contemporary World Issues / Your Government Your World (H)	Health, World Language or Humanities	Accounting I	Career-Related Electives
	12	English IV / AP Lit and Comp	*(PreCalculus, PreCalculus Honors or Probability and Statistics Honors)	*(Physics Honors, Environmental Science)	*(African American Studies / Psychology / Sociology)	**Dual Enrollment / Financial Literacy	#Senior Seminar	Career-Related Electives

*Not Required for Graduation

Electives / Career Development	Add. Electives (Building Level)	Career Development / Career Portfolio (Artifacts)	Awards, Certificates, Scholarships
	<ul style="list-style-type: none"> Accounting I and II SBI Program Marketing Engineering Personal and Business Finance 	<p>Students will complete a number of career exploration activities that will develop their career portfolio and support their senior seminar. These activities include, but are not limited to:</p> <ul style="list-style-type: none"> Career Profile Research Career Fairs Pre-apprenticeship Business/Industry Tours Guest Speakers/Lunch N Learn Career Exploration Immersion Programs Job Shadowing Business or Community-based projects Work-Based Learning 	<p>**Dual Enrollment/Dual Credit</p> <p>Advanced students may take college courses in aligned post-secondary programs for dual credit.</p> <p>Students may be required to take college placement testing in reading and writing in order to register for college courses.</p> <p>Transportation and Logistics: GSTC 107 (HU) <i>Remote Pilot Certification</i> GSTC 130 (HU) <i>Applied Geography</i> CAD 154 (HACC) <i>Computer Aided Drafting and Design</i> CVTE 103 (HACC) <i>Surveying</i> *ENG 105 (HU) <i>College Composition</i> COMM 110 (HU) <i>Speech</i> are recommended for any pathway</p>

#Senior Seminar:

- Quarter 1:** Resume Building
- Quarter 2:** Interview Skills
- Quarter 3:** Personal Finance
- Quarter 4:** Employability Skills

Occupations Relating to This Pathway

- Stock/Material Mover
- Transportation Supervisor
- Distribution Engineer
- Deliver Lead
- Logistics Manager, etc
- Air Craft Pilot
- Public Transportation Planner

BCL



CAMI
CIVIL

Dr. Corey Black DMD
Founder / CEO

4



HEALTH & HUMAN SERVICES PATHWAY



**DENTISTRY
& OPTOMETRY**



**HEALTH
SCIENCES**



EDUCATION



HEALTH AND HUMAN SERVICES PATHWAY

This pathway is designed for students to grow their interests in Dentistry, Optometry, Health Sciences, and Education.

PATHWAY CLUSTER AREAS

Dentistry

Are you interested in:

- Helping Others
- Health Care
- Science
- Solving Medical Issues

Can you:

- Maintain Privacy
- Actively Listen
- Use logic and reasoning
- Keep detailed records

If you can answer “yes” to most of these questions, you might consider a future in one of the sample occupations listed below with their level of postsecondary training.

ENTRY LEVEL (ON THE JOB TRAINING)

Medical Biller
Entry-Level Dental Assistant
Medical Writer

TECHNICAL/SKILLED (1-3 YEARS)

Healthcare Manager
Medical Sales Executive
Dental Hygienist

PROFESSIONAL (4 OR MORE YEARS)

Dental Consultant Dental Claims Consultant
Research Scientist Professor

PATHWAY CERTIFICATIONS (NOT ALL INCLUSIVE)

Certified Dental Technician
Certification in Orthodontics
Board Certified Endodontist
Dental Assistant (RDA)
Certified Dental Assistant (CDA)
Certification in Veterinary Dentistry
Board Certification in Oral & Maxillofacial Surgery
Infection Control Certification (CIC)
Diplomate in Dental Public Health
Certified Dental Assistant – Coronal Polish

DENTISTRY

Career Pathway Plan of Study for ▶ Students ▶ Parents ▶ Counselors ▶ Teachers/Faculty

Credits Needed for Graduation		4	3	3	3	1 Health and PE; 2 Humanities	5 Electives Total		
LEVEL	GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES/ SOCIAL SCIENCES	OTHER REQUIRED COURSES	*CAREER-RELATED ELECTIVES		
	SECONDARY	9	English I / English I Honors	Algebra I / Algebra I Honors	Integrated Science / Integrated Science Honors	Civics / US History I / US History I Honors	Freshman Seminar	Health/PE	Career-Related Electives
		10	English II / English II Honors	Geometry / Geometry Honors	Biology / Biology Honors / AP Biology	US History II / US History II Honors	World Language or Humanities	Naval Science	Career-Related Electives
		11	English III / English III Honors	Algebra II / Algebra II Honors	Chemistry / Chemistry Honors / Enviro Science / Earth Science	Contemporary World Issues / Your Government Your World (H)	Health, World Language or Humanities	Naval Science I	Career-Related Electives
		12	English IV / AP Lit and Comp	*(PreCalculus, PreCalculus Honors or Probability and Statistics Honors)	*(Physics Honors, Environmental Science)	*(African American Studies / Psychology / Sociology)	**Dual Enrollment / Financial Literacy	#Senior Seminar	Career-Related Electives

*Not Required for Graduation

Electives / Career Development	Add. Electives (Building Level)	Career Development / Career Portfolio (Artifacts)	Awards, Certificates, Scholarships
	<ul style="list-style-type: none"> Robotics II Engineering II AP Chemistry 	<p>Students will complete a number of career exploration activities that will develop their career portfolio and support their senior seminar. These activities include, but are not limited to:</p> <ul style="list-style-type: none"> Career Profile Research Career Fairs Pre-apprenticeship Business/Industry Tours Guest Speakers/Lunch N Learn Career Exploration Immersion Programs Job Shadowing Business or Community-based projects Work-Based Learning 	<p>**Dual Enrollment/Dual Credit</p> <p>Advanced students may take college courses in aligned post-secondary programs for dual credit.</p> <p>Students may be required to take college placement testing in reading and writing in order to register for college courses.</p> <p>Dentistry: BTEC 105 (HU) <i>The Art of Genes and Fusion</i> BIOL 102 (HU) <i>General Biology</i> COMM 101 (HACC) <i>Effective Speaking</i> BIOL 121 (HACC) <i>Anatomy and Physiology I</i> *ENG 105 (HU) <i>College Composition</i> COMM 110 (HU) <i>Speech</i> are recommended for any pathway</p>

#Senior Seminar:

- Quarter 1:** Resume Building
- Quarter 2:** Interview Skills
- Quarter 3:** Personal Finance
- Quarter 4:** Employability Skills

Occupations Relating to This Pathway

- Dental Specialist
- General Dentist
- Dental Hygienist
- Dental Assistant
- Dental Lab Tech
- Treatment Coordinator
- Practice Administrator
- Business Manager/Director

HEALTH AND HUMAN SERVICES PATHWAY

This pathway is designed for students to grow their interests in Dentistry, Optometry, Health Sciences, and Education.

PATHWAY CLUSTER AREAS

Optometry

Are you interested in:

- Helping Others
- Health Care
- Science
- Medical Issues

Can you:

- Maintain Privacy
- Actively Listen
- Use logic and reasoning
- Keep detailed records

If you can answer “yes” to most of these questions, you might consider a future in one of the sample occupations listed below with their level of postsecondary training.

ENTRY LEVEL (ON THE JOB TRAINING)

Counselor / Therapist
Optometric Technician

TECHNICAL/SKILLED (1-3 YEARS)

Certified Paraoptometric
Ophthalmic Scribe

PROFESSIONAL (4 OR MORE YEARS)

Optician
Glaucoma Specialist

Optometrist
Ophthalmic Nurse

PATHWAY CERTIFICATIONS (NOT ALL INCLUSIVE)

Applied Basic Science
National Contact Lens Examiners
Advances Competency in Medical Optometry
Certified Nurse Assistant (CNA)
Certified Medical Administrative Assistant (CMAA)
Certified Medical Interpreter (CMI)
Treatment and Management of Ocular Disease (TMOD)
Optometry Office Manager Certification Course
American Optometric Association (AOA) Paraoptometric Certification

Career Pathway Plan of Study for ▶ Students ▶ Parents ▶ Counselors ▶ Teachers/Faculty

Credits Needed for Graduation		4	3	3	3	1 Health and PE; 2 Humanities	5 Electives Total		
LEVEL GRADE	SECONDRARY	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES/ SOCIAL SCIENCES	OTHER REQUIRED COURSES	*CAREER-RELATED ELECTIVES		
		9	English I / English I Honors	Algebra I / Algebra I Honors	Integrated Science / Integrated Science Honors	Civics / US History I / US History I Honors	Freshman Seminar	Health/PE	Career-Related Electives
		10	English II / English II Honors	Geometry / Geometry Honors	Biology / Biology Honors / AP Biology	US History II / US History II Honors	World Language or Humanities	Public Speaking	Career-Related Electives
		11	English III / English III Honors	Algebra II / Algebra II Honors	Chemistry / Chemistry Honors / Enviro Science / Earth Science	Contemporary World Issues / Your Government Your World (H)	Health, World Language or Humanities	Physics	Career-Related Electives
		12	English IV / AP Lit and Comp	*(PreCalculus, PreCalculus Honors or Probability and Statistics Honors)	CHS Biology, Anatomy and Physiology	*(African American Studies / Psychology / Sociology)	**Dual Enrollment / Financial Literacy	#Senior Seminar	Career-Related Electives

*Not Required for Graduation

Electives / Career Development	Add. Electives (Building Level)	Career Development / Career Portfolio (Artifacts)	Awards, Certificates, Scholarships
	<ul style="list-style-type: none"> • AP Chemistry • AP Environmental Science • Forensic Science 	<p>Students will complete a number of career exploration activities that will develop their career portfolio and support their senior seminar. These activities include, but are not limited to:</p> <ul style="list-style-type: none"> • Career Profile Research • Career Fairs • Pre-apprenticeship • Business/Industry Tours • Guest Speakers/Lunch N Learn • Career Exploration Immersion Programs • Job Shadowing • Business or Community-based projects • Work-Based Learning 	<p>**Dual Enrollment/Dual Credit</p> <p>Advanced students may take college courses in aligned post-secondary programs for dual credit.</p> <p>Students may be required to take college placement testing in reading and writing in order to register for college courses.</p> <p>Optometry: BTEC 105(HU) <i>The Art of Genes and Fusion</i> BIOL 102 (HU) <i>General Biology</i> COMM 101 (HACC) <i>Effective Speaking</i> BIOL 121 (HACC) <i>Anatomy and Physiology</i> *ENG 105 (HU) <i>College Composition</i> COMM 110 (HU) <i>Speech</i> are recommended for any pathway</p>

#Senior Seminar:

- Quarter 1:** Resume Building
- Quarter 2:** Interview Skills
- Quarter 3:** Personal Finance
- Quarter 4:** Employability Skills

Occupations Relating to This Pathway

- Optician
- Optometrist
- Trainee Optometrist
- Glaucoma Specialist
- Certified Paraoptometric
- Counselor/Therapist

HEALTH AND HUMAN SERVICES PATHWAY

This pathway is designed for students to grow their interests in Dentistry, Optometry, Health Sciences, and Education.

PATHWAY CLUSTER AREAS

Health Sciences

Are you interested in:

- Helping Others
- Health Care
- Science
- Medical Issues

Can you:

- Maintain Privacy
- Actively Listen
- Use logic and reasoning
- Keep detailed records

If you can answer “yes” to most of these questions, you might consider a future in one of the sample occupations listed below with their level of postsecondary training.

ENTRY LEVEL (ON THE JOB TRAINING)

Nurse's Aide
Pharmacy Clerk
Client relationship specialist
Home health care
Sonographer

TECHNICAL/SKILLED (1-3 YEARS)

Fitness Trainer
Dietitian
Crime Lab Analyst
Dental Assistant
Paramedic

PROFESSIONAL (4 OR MORE YEARS)

Occupational Therapist
Nurse Practitioner
Social Worker
Speech Pathologist
Counselor/Therapist
Medical Doctor

PATHWAY CERTIFICATIONS (NOT ALL INCLUSIVE)

Certified Surgical Assistant
Certified Assisted Living Nurse
Nationally Certified School Nurse
Certified Addiction Specialist
Informatics Nursing
Certified Wound Specialist
EKG Technician
Certified Phlebotomy Technician
Certified Clinical Medical Assistant (CCMA)
Certified EKG/ECG Technician (CET)
OSHA Certification – Healthcare
Certified Pharmacy Technician (CNT)
First Responder Program

HEALTH SCIENCES

Career Pathway Plan of Study for ▶ Students ▶ Parents ▶ Counselors ▶ Teachers/Faculty

Credits Needed for Graduation		4	3	3	3	1 Health and PE; 2 Humanities	5 Electives Total		
LEVEL	GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES/ SOCIAL SCIENCES	OTHER REQUIRED COURSES	*CAREER-RELATED ELECTIVES		
	SECONDARY	9	English I / English I Honors	Algebra I / Algebra I Honors	Integrated Science / Integrated Science Honors	Civics / US History I / US History I Honors	Freshman Seminar	Health/PE	Career-Related Electives
		10	English II / English II Honors	Geometry / Geometry Honors	Biology / Biology Honors / AP Biology	US History II / US History II Honors	World Language or Humanities	Public Speaking	Career-Related Electives
		11	English III / English III Honors	Algebra II / Algebra II Honors	Chemistry / Chemistry Honors / Enviro Science / Earth Science	Contemporary World Issues / Your Government Your World (H)	Health (if not completed) World Language, Humanities	Physics	Career-Related Electives
		12	English IV / AP Lit and Comp	*(PreCalculus, PreCalculus Honors or Probability and Statistics Honors)	CHS Biology, Anatomy and Physiology	*(African American Studies / Psychology / Sociology)	**Dual Enrollment / Financial Literacy	#Senior Seminar	Career-Related Electives

*Not Required for Graduation

Electives / Career Development	Add. Electives (Building Level)	Career Development / Career Portfolio (Artifacts)	Awards, Certificates, Scholarships
	<ul style="list-style-type: none"> • AP Chemistry • Forensic Science • Engineering, Robotics 	<p>Students will complete a number of career exploration activities that will develop their career portfolio and support their senior seminar. These activities include, but are not limited to:</p> <ul style="list-style-type: none"> • Career Profile Research • Career Fairs • Pre-apprenticeship • Business/Industry Tours • Guest Speakers/Lunch N Learn • Career Exploration Immersion Programs • Job Shadowing • Business or Community-based projects • Work-Based Learning 	<p>**Dual Enrollment/Dual Credit</p> <p>Advanced students may take college courses in aligned post-secondary programs for dual credit.</p> <p>Students may be required to take college placement testing in reading and writing in order to register for college courses.</p> <p>Health Sciences: BTEC 105 (HU) <i>The Art of Genes and Fusion</i> BIOL 102 (HU) <i>General Biology</i> COMM 101 (HACC) <i>Effective Speaking</i> BIOL 121 (HACC) <i>Anatomy and Physiology I</i> *ENG 105 (HU) <i>College Composition</i> COMM 110 (HU) <i>Speech</i> are recommended for any pathway</p>

#Senior Seminar:

- Quarter 1:** Resume Building
- Quarter 2:** Interview Skills
- Quarter 3:** Personal Finance
- Quarter 4:** Employability Skills

Occupations Relating to This Pathway

- Nurse's Aide
- Fitness Trainer
- Pharmacy Clerk
- Dietitian
- Client relationship specialist
- Crime Lab Analyst
- Home health care
- Dental Assistant
- Sonographer
- Paramedic
- Occupational Therapist
- Speech Pathologist
- Nurse Practitioner
- Counselor/Therapist
- Social Worker
- Medical Doctor

HEALTH AND HUMAN SERVICES PATHWAY

This pathway is designed for students to grow their interests in Dentistry, Optometry, Health Sciences, and Education.

PATHWAY CLUSTER AREAS

Education

Are you interested in:

- Working with children
- Assisting Others
- Public Service

Can you:

- Provide specific instructions
- Be detail orientated
- Communicate well with others

If you can answer “yes” to most of these questions, you might consider a future in one of the sample occupations listed below with their level of postsecondary training.

ENTRY LEVEL (ON THE JOB TRAINING)

Child Care
Preschool classroom teacher
Bus Driver
Tutor
Crossing guard
Cafeteria Worker

TECHNICAL/SKILLED (1-3 YEARS)

Day Care director
Technology Assistant
Pupil Services Assistant
School office secretary
Guidance secretary
Para-Professional

PROFESSIONAL (4 OR MORE YEARS)

Elementary Teacher	College Professor
Secondary School Teacher	Curriculum writer
Principal	District office staff

PATHWAY CERTIFICATIONS (NOT ALL INCLUSIVE)

Certified Asthma Educator
Certified Diabetes Educator
Teacher Certification Program
Certified Death Interpreter
Certified Adapted Physical Educator
Art Education PK-12
English 7-12
Computer Science 7-12
Cooperative Education 7-12
Career and Technical Instructional 7-12
Music Education PK-12
Mathematics 7-12
Social Science 7-12

EDUCATION

Career Pathway Plan of Study for ▶ Students ▶ Parents ▶ Counselors ▶ Teachers/Faculty

Credits Needed for Graduation		4	3	3	3	1 Health and PE; 2 Humanities	5 Electives Total		
LEVEL	GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES/ SOCIAL SCIENCES	OTHER REQUIRED COURSES	*CAREER-RELATED ELECTIVES		
	SECONDARY	9	English I / English I Honors	Algebra I / Algebra I Honors	Integrated Science / Integrated Science Honors	Civics / US History I / US History I Honors	Freshman Seminar	Health/PE	Career-Related Electives
		10	English II / English II Honors	Geometry / Geometry Honors	Biology / Biology Honors / AP Biology	US History II / US History II Honors	World Language or Humanities	Public Speaking	Career-Related Electives
		11	English III / English III Honors	Algebra II / Algebra II Honors	Chemistry / Chemistry Honors / Enviro Science / Earth Science	Contemporary World Issues / Your Government Your World (H)	Health (if not completed) World Language, Humanities	Physics	Career-Related Electives
		12	English IV / AP Lit and Comp	*(PreCalculus, PreCalculus Honors or Probability and Statistics Honors)	CHS Biology, Anatomy and Physiology	*(African American Studies / Psychology / Sociology)	**Dual Enrollment / Financial Literacy	#Senior Seminar	Career-Related Electives

*Not Required for Graduation

Electives / Career Development	Add. Electives (Building Level)	Career Development / Career Portfolio (Artifacts)	Awards, Certificates, Scholarships
	<ul style="list-style-type: none"> Contemporary World Issues Business Essentials Graphic Design 	<p>Students will complete a number of career exploration activities that will develop their career portfolio and support their senior seminar. These activities include, but are not limited to:</p> <ul style="list-style-type: none"> Career Profile Research Career Fairs Pre-apprenticeship Business/Industry Tours Guest Speakers/Lunch N Learn Career Exploration Immersion Programs Job Shadowing Business or Community-based projects Work-Based Learning 	<p>**Dual Enrollment/Dual Credit</p> <p>Advanced students may take college courses in aligned post-secondary programs for dual credit.</p> <p>Students may be required to take college placement testing in reading and writing in order to register for college courses.</p> <p>Education: ENG 105 (HU) <i>College Composition</i> GEND 102(HU) <i>Creative Mind</i> EDUC 140 (HACC) <i>Integrating Arts and Play as Educative Process</i> EDUC 210 (HACC) <i>Exceptional Learners</i> *ENG 105 (HU) <i>College Composition</i> COMM 110 (HU) <i>Speech</i> are recommended for any pathway</p>

#Senior Seminar:

- Quarter 1:** Resume Building
- Quarter 2:** Interview Skills
- Quarter 3:** Personal Finance
- Quarter 4:** Employability Skills

Occupations Relating to This Pathway

- Teacher
- Early Childhood Consultant
- Principal
- Tutor
- School Leadership
- Child Development Specialist
- College Professor
- Pupil Services Assistant
- Superintendent
- Elementary Teacher
- Secondary School Teacher
- Curriculum writer
- District Office Staff





S.T.E.E.M. PATHWAY



**ENGINEERING &
ENVIRONMENTAL
SCIENCE**



**INFORMATION
TECHNOLOGY**



**DATA
ANALYST**



STEEM PATHWAY

This pathway is designed for student to grow their interests in Engineering, Environmental Science, Information Technology, and Data Analyst.

PATHWAY CLUSTER AREAS

Engineering

Are you interested in:

- Mathematics
- Physics
- How things work
- Solving Problems
- Technological Advances

Can you:

- Be detail oriented
- Work with your hands
- Operate tools and equipment
- Manage budgets and timelines
- Find creative solutions

If you can answer “yes” to most of these questions, you might consider a future in one of the sample occupations listed below with their level of postsecondary training.

TECHNICAL/SKILLED (1-3 YEARS)

Automotive Engineering Transportation Planning
Airline Support Staff

PROFESSIONAL (4 OR MORE YEARS)

Aerospace Engineers Civil Engineers
Biomedical Engineers Industrial Engineers
Chemical Engineers

PATHWAY CERTIFICATIONS (NOT ALL INCLUSIVE)

Certified Golf Course Builder
Certified Technical Professional
Certified Planning Engineer
Certified Six Sigma Greenbelt
Certified Ground Water Professional
Certified Manufacturing Engineer
Certificated Construction Manager
Engineer In Training Certification (EIT)
Certified Audio Engineer (CEA)
Structural Engineer (SE)
Certified Chemical Engineer (CCE)
Petroleum Engineering Certification (PEC)
Software Engineering Master Certification (SEMC)

ENGINEERING

Career Pathway Plan of Study for ▶ Students ▶ Parents ▶ Counselors ▶ Teachers/Faculty

Credits Needed for Graduation		4	3	3	3	1 Health and PE; 2 Humanities	5 Electives Total		
LEVEL	GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES/ SOCIAL SCIENCES	OTHER REQUIRED COURSES	*CAREER-RELATED ELECTIVES		
	SECONDARY	9	English I / English I Honors	Algebra I / Algebra I Honors	Integrated Science / Integrated Science Honors	Civics / US History I / US History I Honors	Freshman Seminar	Health/PE	Career-Related Electives
		10	English II / English II Honors	Geometry / Geometry Honors	Biology / Biology Honors / AP Biology	US History II / US History II Honors	World Language or Humanities	Engineering	Career-Related Electives
		11	English III / English III Honors	Algebra II / Algebra II Honors	Chemistry / Chemistry Honors / Enviro Science / Earth Science	Contemporary World Issues / Your Government Your World (H)	Health, World Language or Humanities	Robotics	Career-Related Electives
		12	English IV / AP Lit and Comp	*(PreCalculus, PreCalculus Honors or Probability and Statistics Honors)	*(Physics, Environmental Science)	*(African American Studies / Psychology / Sociology)	**Dual Enrollment / Financial Literacy	#Senior Seminar	Career-Related Electives

*Not Required for Graduation

Electives / Career Development	Add. Electives (Building Level)	Career Development / Career Portfolio (Artifacts)	Awards, Certificates, Scholarships
	<ul style="list-style-type: none"> • Robotics II • Engineering II • AP Chemistry 	<p>Students will complete a number of career exploration activities that will develop their career portfolio and support their senior seminar. These activities include, but are not limited to:</p> <ul style="list-style-type: none"> • Career Profile Research • Career Fairs • Pre-apprenticeship • Business/Industry Tours • Guest Speakers/Lunch N Learn • Career Exploration Immersion Programs • Job Shadowing • Business or Community-based projects • Work-Based Learning 	<p>**Dual Enrollment/Dual Credit</p> <p>Advanced students may take college courses in aligned post-secondary programs for dual credit.</p> <p>Students may be required to take college placement testing in reading and writing in order to register for college courses.</p> <p>Engineering: MATH 220 (HU) <i>Calculus 1</i> ENGR 220 (HU) <i>Chemical principles for Engineering</i> CAD 154 (HACC) <i>Computer-Aided Drafting and Design</i> ENGR 213 (HACC) <i>Statistics</i> *ENG 105 (HU) <i>College Composition</i> COMM 110 (HU) <i>Speech</i> are recommended for any pathway</p>

#Senior Seminar:

- Quarter 1:** Resume Building
- Quarter 2:** Interview Skills
- Quarter 3:** Personal Finance
- Quarter 4:** Employability Skills

Occupations Relating to This Pathway

- Engineer
- Computer Engineer
- Civil Engineer
- Industrial Engineer
- Mechanical Engineer
- Electrical Engineer
- Aerospace Engineer
- Chemical Engineer

STEEM PATHWAY

This pathway is designed for student to grow their interests in Engineering, Environmental Science, Information Technology, and Data Analyst.

PATHWAY CLUSTER AREAS

Environmental Science

Are you interested in:

- Plants and Animal Science
- Laws and legal codes
- Biology
- Chemistry
- Conservation studies

Can you:

- Conduct experiments
- Be detail oriented
- Take precise measurements
- Collaborate with others
- Use logic and reasoning

If you can answer “yes” to most of these questions, you might consider a future in one of the sample occupations listed below with their level of postsecondary training.

ENTRY LEVEL (ON THE JOB TRAINING)

Animal Caretaker
Water/waste water operator
Compliance Officer

TECHNICAL/SKILLED (1-3 YEARS)

Forest conservationist
Wildlife preserve worker
Fish and Game Commission

PROFESSIONAL (4 OR MORE YEARS)

Environmental Scientist	Zoologist
Geologist	Climate Change Policy Analysts
Professor of Environmental	Industrial Ecologists

PATHWAY CERTIFICATIONS (NOT ALL INCLUSIVE)

Certified Planning Engineer
Certified Ground Water Professional
Certified Waste Management Professional
Certified Carbon Reduction Manager
Certified Mold Professional
Certified Stormwater Manager

ENVIRONMENTAL SCIENCE

Career Pathway Plan of Study for ▶ Students ▶ Parents ▶ Counselors ▶ Teachers/Faculty

Credits Needed for Graduation		4	3	3	3	1 Health and PE; 2 Humanities	5 Electives Total		
LEVEL	GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES/ SOCIAL SCIENCES	OTHER REQUIRED COURSES	*CAREER-RELATED ELECTIVES		
	SECONDARY	9	English I / English I Honors	Algebra I / Algebra I Honors	Integrated Science / Integrated Science Honors	Civics / US History I / US History I Honors	Freshman Seminar	Health/PE	Career-Related Electives
		10	English II / English II Honors	Geometry / Geometry Honors	Biology / Biology Honors / AP Biology	US History II / US History II Honors	World Language or Humanities	Forensic Science	Career-Related Electives
		11	English III / English III Honors	Algebra II / Algebra II Honors	Chemistry / Chemistry Honors / Enviro Science / Earth Science	Contemporary World Issues / Your Government Your World (H)	Health, World Language or Humanities	Physics	Career-Related Electives
		12	English IV / AP Lit and Comp	*(PreCalculus, PreCalculus Honors or Probability and Statistics Honors)	*(Physics Honors, Environmental Science)	*(African American Studies / Psychology / Sociology)	**Dual Enrollment / Financial Literacy	#Senior Seminar	Career-Related Electives

*Not Required for Graduation

Electives / Career Development	Add. Electives (Building Level)	Career Development / Career Portfolio (Artifacts)	Awards, Certificates, Scholarships
	<ul style="list-style-type: none"> College in the High School Biology 	<p>Students will complete a number of career exploration activities that will develop their career portfolio and support their senior seminar. These activities include, but are not limited to:</p> <ul style="list-style-type: none"> Career Profile Research Career Fairs Pre-apprenticeship Business/Industry Tours Guest Speakers/Lunch N Learn Career Exploration Immersion Programs Job Shadowing Business or Community-based projects Work-Based Learning 	<p>**Dual Enrollment/Dual Credit</p> <p>Advanced students may take college courses in aligned post-secondary programs for dual credit.</p> <p>Students may be required to take college placement testing in reading and writing in order to register for college courses.</p> <p>Environmental Science: ENVS 101 (HU) <i>Introduction to Environmental Science</i> ENVS 110 (HU) <i>Introduction to Controlled Environmental Agriculture</i> BIOL 203 (HACC) <i>Environmental Science with Lab</i> GEOL 201 (HACC) <i>Environmental Geology</i> *ENG 105 (HU) <i>College Composition</i> COMM 110 (HU) <i>Speech</i> are recommended for any pathway</p>

#Senior Seminar:

- Quarter 1:** Resume Building
- Quarter 2:** Interview Skills
- Quarter 3:** Personal Finance
- Quarter 4:** Employability Skills

Occupations Relating to This Pathway

- Animal Caretaker
- Forest conservationist
- Water/waste water operator
- Wildlife preserve worker
- Compliance Officer
- Fish and Game Commission
- Environmental Scientist
- Zoologist
- Geologist
- Climate Change Policy Analysts
- Professor of Environmental Studies
- Industrial Ecologists

STEEM PATHWAY

This pathway is designed for student to grow their interests in Engineering, Environmental Science, Information Technology, and Data Analyst.

PATHWAY CLUSTER AREAS

Information Technology

Are you interested in:

- Statistics and Trends
- Finding Patterns/Connections
- Using Computer Technology
- Developing Structured Procedures

Can you:

- Analyze Security of Systems
- Install Computer Software
- Evaluate Data Quality
- Follow complex instructions

If you can answer “yes” to most of these questions, you might consider a future in one of the sample occupations listed below with their level of postsecondary training.

ENTRY LEVEL (ON THE JOB TRAINING)

Help Desk IT
Digital Marketer
Technical Writer

TECHNICAL/SKILLED (1-3 YEARS)

Cloud Engineer
Computer Programmer
Web and Digital Engineers

PROFESSIONAL (4 OR MORE YEARS)

Data Base Administrator	Computer Support Scientist
Network Architect	Software Development
Application Tester	IT Business Analyst

PATHWAY CERTIFICATIONS (NOT ALL INCLUSIVE)

Certified Scrum Product Owner
Professional Cloud Administrator Professional
Certified IT Professional
Project Management Professional
Certified Internet Webmaster
CompTIA Project+
Certified Technology Manager
AWS Certified Solutions Architect
Google Cloud Certified Professional Cloud Architects
Certified Data Professionals
SAP HANA 2.0

INFORMATION TECHNOLOGY

Career Pathway Plan of Study for ▶ Students ▶ Parents ▶ Counselors ▶ Teachers/Faculty

Credits Needed for Graduation		4	3	3	3	1 Health and PE; 2 Humanities	5 Electives Total		
LEVEL	GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES/ SOCIAL SCIENCES	OTHER REQUIRED COURSES	*CAREER-RELATED ELECTIVES		
	SECONDARY	9	English I / English I Honors	Algebra I / Algebra I Honors	Integrated Science / Integrated Science Honors	Civics / US History I / US History I Honors	Freshman Seminar	Health/PE	Career-Related Electives
		10	English II / English II Honors	Geometry / Geometry Honors	Biology / Biology Honors / AP Biology	US History II / US History II Honors	World Language or Humanities	Computer Graphics	Career-Related Electives
		11	English III / English III Honors	Algebra II / Algebra II Honors	Chemistry / Chemistry Honors / Enviro Science / Earth Science	Contemporary World Issues / Your Government Your World (H)	Health, World Language or Humanities	Digital Media Design	Career-Related Electives
		12	English IV / AP Lit and Comp	*(PreCalculus, PreCalculus Honors or Probability and Statistics Honors)	*(Physics Honors, Environmental Science)	*(African American Studies / Psychology / Sociology)	**Dual Enrollment / Financial Literacy	#Senior Seminar	Career-Related Electives

*Not Required for Graduation

Electives / Career Development	Add. Electives (Building Level)	Career Development / Career Portfolio (Artifacts)	Awards, Certificates, Scholarships
	<ul style="list-style-type: none"> • Introduction to Technology • Technological Design • Public Speaking 	<p>Students will complete a number of career exploration activities that will develop their career portfolio and support their senior seminar. These activities include, but are not limited to:</p> <ul style="list-style-type: none"> • Career Profile Research • Career Fairs • Pre-apprenticeship • Business/Industry Tours • Guest Speakers/Lunch N Learn • Career Exploration Immersion Programs • Job Shadowing • Business or Community-based projects • Work-Based Learning 	<p>**Dual Enrollment/Dual Credit</p> <p>Advanced students may take college courses in aligned post-secondary programs for dual credit.</p> <p>Students may be required to take college placement testing in reading and writing in order to register for college courses.</p> <p>Information Technology: ISIT 140 (HU) <i>Introduction to Information Systems</i> ISIT 170 (HU) <i>Introduction to Data and Information Management</i> CIS 126 (HACC) <i>Operating Systems</i> CIS 131(HACC) <i>Computer Hardware</i> *ENG 105 (HU) <i>College Composition</i> COMM 110 (HU) <i>Speech</i> are recommended for any pathway</p>

#Senior Seminar:

- Quarter 1:** Resume Building
- Quarter 2:** Interview Skills
- Quarter 3:** Personal Finance
- Quarter 4:** Employability Skills

Occupations Relating to This Pathway

- Data base administrator
- Computer Support Scientists
- Computer programmer
- Network Architect
- Web and digital designers
- Software Developer

STEEM PATHWAY

This pathway is designed for student to grow their interests in Engineering, Environmental Science, Information Technology, and Data Analyst.

PATHWAY CLUSTER AREAS

Data Analyst

Are you interested in:

- Statistics and Trends
- Finding Patterns/Connections
- Using Computer Technology
- Developing Structured Procedures

Can you:

- Interpret Data
- Use precise measurements
- Evaluate Data Quality
- Follow complex instructions

If you can answer “yes” to most of these questions, you might consider a future in one of the sample occupations listed below with their level of postsecondary training.

ENTRY LEVEL (ON THE JOB TRAINING)

Customer Service Representative
Claims Adjuster
Sales Manager

TECHNICAL/SKILLED (1-3 YEARS)

Corporate Trainer
Auditor
Business Consultant

PROFESSIONAL (4 OR MORE YEARS)

Marketing Management Human Resources Director
Logistics Planning Services Software Development

PATHWAY CERTIFICATIONS (NOT ALL INCLUSIVE)

AWS Certified Solutions Architect
Google Cloud Certified Professional Cloud Architects
Certified Data Professionals
SAP HANA 2.0
Associate Certified Analytics Professional (aCAP)
AWS Certified Data Analytics
Certification of Professional Achievement in Data Sciences
Certified Analytics Professional (CAP)
CDP Data Analyst, CDP Generalist
CompTIA Data+
Google Data Analytics Professional Certificate
IBM Data Analyst Professional Certificate
Microsoft Certified Azure Data Scientist Associate
Open Certified Data Scientist
SAS Certified Advanced Analytics Professional
SAS Certified Data Scientist

DATA ANALYST

Career Pathway Plan of Study for ▶ Students ▶ Parents ▶ Counselors ▶ Teachers/Faculty

Credits Needed for Graduation		4	3	3	3	1 Health and PE; 2 Humanities	5 Electives Total		
LEVEL	GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES/ SOCIAL SCIENCES	OTHER REQUIRED COURSES	*CAREER-RELATED ELECTIVES		
	SECONDARY	9	English I / English I Honors	Algebra I / Algebra I Honors	Integrated Science / Integrated Science Honors	Civics / US History I / US History I Honors	Freshman Seminar	Health/PE	Career-Related Electives
		10	English II / English II Honors	Geometry / Geometry Honors	Biology / Biology Honors / AP Biology	US History II / US History II Honors	World Language or Humanities	Computer Graphics	Career-Related Electives
		11	English III / English III Honors	Algebra II / Algebra II Honors	Chemistry / Chemistry Honors / Enviro Science / Earth Science	Contemporary World Issues / Your Government Your World (H)	Health, World Language or Humanities	Public Speaking	Career-Related Electives
		12	English IV / AP Lit and Comp	*(PreCalculus, PreCalculus Honors or Probability and Statistics Honors)	*(Physics Honors, Environmental Science)	*(African American Studies / Psychology / Sociology)	**Dual Enrollment / Financial Literacy	#Senior Seminar	Career-Related Electives

*Not Required for Graduation

Electives / Career Development	Add. Electives (Building Level)	Career Development / Career Portfolio (Artifacts)	Awards, Certificates, Scholarships
	<ul style="list-style-type: none"> • Intro to Technology • Digital Media Design • Technological Design 	<p>Students will complete a number of career exploration activities that will develop their career portfolio and support their senior seminar. These activities include, but are not limited to:</p> <ul style="list-style-type: none"> • Career Profile Research • Career Fairs • Pre-apprenticeship • Business/Industry Tours • Guest Speakers/Lunch N Learn • Career Exploration Immersion Programs • Job Shadowing • Business or Community-based projects • Work-Based Learning 	<p>**Dual Enrollment/Dual Credit</p> <p>Advanced students may take college courses in aligned post-secondary programs for dual credit.</p> <p>Students may be required to take college placement testing in reading and writing in order to register for college courses.</p> <p>Data Analyst: MEBA 220 (HU) <i>Principles of Business Management</i> MEBA 232 (HU) <i>Business Research Design and Methods</i> BUSI 101 (HACC) <i>Introduction to Business</i> ACCT 150 (HACC) <i>Principles of Financial Accounting I</i> *ENG 105 (HU) <i>College Composition</i> COMM 110 (HU) <i>Speech</i> are recommended for any pathway</p>

#Senior Seminar:

- Quarter 1:** Resume Building
- Quarter 2:** Interview Skills
- Quarter 3:** Personal Finance
- Quarter 4:** Employability Skills

Occupations Relating to This Pathway

- Data Scientist
- Business intelligence analyst
- Marketing manager
- Financial analyst
- Data engineer
- Statistician



2908



**BROWN SAFETY
— CONSULTING —**
Protecting Your #1 Resource



GENERAL STUDIES



**BUSINESS
ADMINISTRATION**



**CONSTRUCTION
TRADES**



**VISUAL
ARTS**



GENERAL STUDIES PATHWAY

This pathway is designed for students to grow their interests and exposure in business administration, construction trades, and visual arts.

PATHWAY CLUSTER AREAS

Business Administration

Are you interested in:

- A business environment
- Office Management
- Data processing and collection
- Solving problems
- Managing Time, People, Budgets

Can you:

- Work easily with others
- Organize your time efficiently
- Show initiative
- Influence others
- Use computers and other tech

If you can answer “yes” to most of these questions, you might consider a future in one of the sample occupations listed below with their level of postsecondary training.

ENTRY LEVEL (ON THE JOB TRAINING)

Customer Service Rep
Administrative Assistant
Data Entry Clerk

TECHNICAL/SKILLED (1-3 YEARS)

Loan Officer
Bookkeeper
Entrepreneur

PROFESSIONAL (4 OR MORE YEARS)

Marketing Manager Accountant
Human Resources Manager Financial Manager
General Manager Sales Manager

PATHWAY CERTIFICATIONS (NOT ALL INCLUSIVE)

Certified Application Security Engineer
Cisco Meraki Solutions Specialist
Certified Information Systems Security Professional - Architecture
SAP Certified Application Associate - SAP S/4HANA Portfolio and Project Management
Project Management Professional

BUSINESS ADMINISTRATION

Career Pathway Plan of Study for ▶ Students ▶ Parents ▶ Counselors ▶ Teachers/Faculty

Credits Needed for Graduation		4	3	3	3	1 Health and PE; 2 Humanities	5 Electives Total		
LEVEL	GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES/ SOCIAL SCIENCES	OTHER REQUIRED COURSES	*CAREER-RELATED ELECTIVES		
	SECONDARY	9	English I / English I Honors	Algebra I / Algebra I Honors	Integrated Science / Integrated Science Honors	Civics / US History I / US History I Honors	Freshman Seminar	Health/PE	Career-Related Electives
		10	English II / English II Honors	Geometry / Geometry Honors	Biology / Biology Honors / AP Biology	US History II / US History II Honors	World Language or Humanities	Intro to SBI	Career-Related Electives
		11	English III / English III Honors	Algebra II / Algebra II Honors	Chemistry / Chemistry Honors / Enviro Science / Earth Science	Contemporary World Issues / Your Government Your World (H)	Health, World Language or Humanities	Accounting I	Career-Related Electives
		12	English IV / AP Lit and Comp	*(PreCalculus, PreCalculus Honors or Probability and Statistics Honors)	*(Physics Honors, Environmental Science)	*(African American Studies / Psychology / Sociology)	**Dual Enrollment / Financial Literacy	#Senior Seminar	Career-Related Electives

*Not Required for Graduation

Electives / Career Development	Add. Electives (Building Level)	Career Development / Career Portfolio (Artifacts)	Awards, Certificates, Scholarships
	<ul style="list-style-type: none"> Accounting I and II SBI Program Marketing Engineering Personal and Business Finance Journalism I and II 	<p>Students will complete a number of career exploration activities that will develop their career portfolio and support their senior seminar. These activities include, but are not limited to:</p> <ul style="list-style-type: none"> Career Profile Research Career Fairs Pre-apprenticeship Business/Industry Tours Guest Speakers/Lunch N Learn Career Exploration Immersion Programs Job Shadowing Business or Community-based projects Work-Based Learning 	<p>**Dual Enrollment/Dual Credit</p> <p>Advanced students may take college courses in aligned post-secondary programs for dual credit.</p> <p>Students may be required to take college placement testing in reading and writing in order to register for college courses.</p> <p>Business Administration: MEBA 110 (HU) <i>Introduction to Business and Entrepreneurship</i> IMED 110 (HU) <i>Introduction to Digital Design</i> ACCT 150 (HACC) <i>Principles of Financial Accounting I</i> ACCT 151 (HACC) <i>Principles of Financial Accounting II</i> *ENG 105 (HU) <i>College Composition</i> COMM 110 (HU) <i>Speech</i> are recommended for any pathway</p>

#Senior Seminar:

- Quarter 1:** Resume Building
- Quarter 2:** Interview Skills
- Quarter 3:** Personal Finance
- Quarter 4:** Employability Skills

Occupations Relating to This Pathway

- Financial Manager
- Bookkeeper
- Entrepreneur
- Marketing Manager
- Human Resource Manager
- Accountant
- Auditor
- Market Research Analyst
- Project Manager
- Business Development Manager

GENERAL STUDIES PATHWAY

This pathway is designed for students to grow their interests and exposure in business administration, construction trades, and visual arts.

PATHWAY CLUSTER AREAS

Construction Trades

Are you interested in:

- A business environment
- Organize your time efficiently
- Working on differently locations
- Construction Trades
- Managing Time, People, Budgets

Can you:

- Work easily with others
- Show initiative
- Use computers and other tech
- Solve problems
- Influence others

If you can answer “yes” to most of these questions, you might consider a future in one of the sample occupations listed below with their level of postsecondary training.

ENTRY LEVEL (ON THE JOB TRAINING)

Associate Safety Professional
Construction Laborer

TECHNICAL/SKILLED (1-3 YEARS)

Construction & Building Inspector
Project Manager
Estimator

PROFESSIONAL (4 OR MORE YEARS)

Site Supervisor
Architect

Construction Manager
Site Engineer

PATHWAY CERTIFICATIONS (NOT ALL INCLUSIVE)

Certified Design Firm Administrator
Certified Graduate Builder
Certified Flagger
Certification in Materials Testing
OSHA 30 Certification
National Council of Examiners for Engineering and Surveying (NCEES)
Green Business Certification (LEED)
Aerial Lift Training
Crane Operation Certification
Certified Associate Constructor (CAC)
Safety Trained Supervisor Construction (STSC)
Construction Health and Safety Technician (CHST)
Certified Safety Manager (CSM)
Certified Professional Constructor (CPC)

CONSTRUCTION TRADES

Career Pathway Plan of Study for ▶ Students ▶ Parents ▶ Counselors ▶ Teachers/Faculty

Credits Needed for Graduation		4	3	3	3	1 Health and PE; 2 Humanities	5 Electives Total		
LEVEL	GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES/ SOCIAL SCIENCES	OTHER REQUIRED COURSES	*CAREER-RELATED ELECTIVES		
	SECONDARY	9	English I / English I Honors	Algebra I / Algebra I Honors	Integrated Science / Integrated Science Honors	Civics / US History I / US History I Honors	Freshman Seminar	Health/PE	Career-Related Electives
		10	English II / English II Honors	Geometry / Geometry Honors	Biology / Biology Honors / AP Biology	US History II / US History II Honors	World Language or Humanities	Work Experience	Career-Related Electives
		11	English III / English III Honors	Algebra II / Algebra II Honors	Chemistry / Chemistry Honors / Enviro Science / Earth Science	Contemporary World Issues / Your Government Your World (H)	Health, World Language or Humanities	Work Experience	Career-Related Electives
		12	English IV / AP Lit and Comp	*(PreCalculus, PreCalculus Honors or Probability and Statistics Honors)	*(Physics Honors, Environmental Science)	*(African American Studies / Psychology / Sociology)	**Dual Enrollment / Financial Literacy	#Senior Seminar	Career-Related Electives

*Not Required for Graduation

Electives / Career Development	Add. Electives (Building Level)	Career Development / Career Portfolio (Artifacts)	Awards, Certificates, Scholarships
	<ul style="list-style-type: none"> Graphic Design and Production Naval Science Evolve Youth Trades Program 	<p>Students will complete a number of career exploration activities that will develop their career portfolio and support their senior seminar. These activities include, but are not limited to:</p> <ul style="list-style-type: none"> Career Profile Research Career Fairs Pre-apprenticeship Business/Industry Tours Guest Speakers/Lunch N Learn Career Exploration Immersion Programs Job Shadowing Business or Community-based projects Work-Based Learning 	<p>**Dual Enrollment/Dual Credit</p> <p>Advanced students may take college courses in aligned post-secondary programs for dual credit.</p> <p>Students may be required to take college placement testing in reading and writing in order to register for college courses.</p> <p>Construction Trades: GSTC 107 (HU) <i>Remote Pilot Certification</i> GSTC 130 (HU) <i>Applied Geography</i> ARCH 110 (HACC) <i>Construction Print Reading</i> HVAC 101(HACC) <i>Basic Electrical Fundamentals</i> *ENG 105 (HU) <i>College Composition</i> COMM 110 (HU) <i>Speech</i> are recommended for any pathway</p>

#Senior Seminar:

- Quarter 1:** Resume Building
- Quarter 2:** Interview Skills
- Quarter 3:** Personal Finance
- Quarter 4:** Employability Skills

Occupations Relating to This Pathway

- Carpenter
- Brick Layer
- Plumber
- Electrician
- Safety Inspector
- Building Inspector
- Estimator
- Heavy Equipment Operator
- Construction Management

GENERAL STUDIES PATHWAY

This pathway is designed for students to grow their interests and exposure in business administration, construction trades, and visual arts.

PATHWAY CLUSTER AREAS

Visual Arts

Are you interested in:

- A business environment
- Telling stories through design
- Graphic Design
- Social Media
- Communicating through visuals
- Working independently

Can you:

- Work easily with others
- Organize your time efficiently
- Use computers and other tech
- Solve problem
- Influence others
- Self motivated

If you can answer “yes” to most of these questions, you might consider a future in one of the sample occupations listed below with their level of postsecondary training.

ENTRY LEVEL (ON THE JOB TRAINING)

Photographer
Graphic Designer
Entrepreneur

TECHNICAL/SKILLED (1-3 YEARS)

Content Creator
Digital Marketing Assistant
Commercial Artist
Teacher

PROFESSIONAL (4 OR MORE YEARS)

Marketing Manager Digital Marketing Manager

PATHWAY CERTIFICATIONS (NOT ALL INCLUSIVE)

Nationally Certified Teacher of Music
Avid Certified Media Composer
Teacher Certification Program
Certified Graphic Designer
Autodesk Certifies Professionals: AutoCAD
Certified Medical Illustrator (CMI)
CorelDRAW Graphics Suite Certification
Certified Art Therapist (ATR_BC)
Adobe Certified Expert

VISUAL ARTS

Career Pathway Plan of Study for ▶ Students ▶ Parents ▶ Counselors ▶ Teachers/Faculty

Credits Needed for Graduation		4	3	3	3	1 Health and PE; 2 Humanities	5 Electives Total		
LEVEL GRADE	SECONDRY	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES/ SOCIAL SCIENCES	OTHER REQUIRED COURSES	*CAREER-RELATED ELECTIVES		
		9	English I / English I Honors	Algebra I / Algebra I Honors	Integrated Science / Integrated Science Honors	Civics / US History I / US History I Honors	Freshman Seminar	Health/PE	Career-Related Electives
		10	English II / English II Honors	Geometry / Geometry Honors	Biology / Biology Honors / AP Biology	US History II / US History II Honors	World Language or Humanities	Art I	Career-Related Electives
		11	English III / English III Honors	Algebra II / Algebra II Honors	Chemistry / Chemistry Honors / Enviro Science / Earth Science	Contemporary World Issues / Your Government Your World (H)	Health, World Language or Humanities	Art II	Career-Related Electives
		12	English IV / AP Lit and Comp	*(PreCalculus, PreCalculus Honors or Probability and Statistics Honors)	*(Physics Honors, Environmental Science)	*(African American Studies / Psychology / Sociology)	Ceramics / Financial Literacy	#Senior Seminar	Career-Related Electives

*Not Required for Graduation

Electives / Career Development	Add. Electives (Building Level)	Career Development / Career Portfolio (Artifacts)	Awards, Certificates, Scholarships
	<ul style="list-style-type: none"> Graphic Design African American Studies Graphic Communications Art III Crafts and Cultures Music (Various) Recording in the Music Industry Animation I and II Music Theory and Technology Photojournalism Theatre Arts I and II 	<p>Students will complete a number of career exploration activities that will develop their career portfolio and support their senior seminar. These activities include, but are not limited to:</p> <ul style="list-style-type: none"> Career Profile Research Career Fairs Pre-apprenticeship Business/Industry Tours Guest Speakers/Lunch N Learn Career Exploration Immersion Programs Job Shadowing Business or Community-based projects Work-Based Learning 	<p>**Dual Enrollment/Dual Credit</p> <p>Advanced students may take college courses in aligned post-secondary programs for dual credit.</p> <p>Students may be required to take college placement testing in reading and writing in order to register for college courses.</p> <p>Visual Arts: IMED 110 (HU) <i>Introduction to Digital Design</i> IMED 170 (HU) <i>Visual Design Fundamentals</i> ART 121 (HACC) <i>Drawing I</i> ART 108 (HACC) <i>Fundamentals of Computer Art</i> *ENG 105 (HU) <i>College Composition</i> COMM 110 (HU) <i>Speech</i> are recommended for any pathway</p>

#Senior Seminar:

- Quarter 1:** Resume Building
- Quarter 2:** Interview Skills
- Quarter 3:** Personal Finance
- Quarter 4:** Employability Skills

Occupations Relating to This Pathway

- Graphic Designer
- Interior Designer
- Fashion Designer
- Digital Media Producer
- Film Producer
- Photographer
- Artist

ENGLISH I**01001****Credit: 1****Grades: 9**

The ninth-grade course is an overview of literature and nonfiction across the major forms and genres (short story, novel, poetry, drama, epic poetry, literary nonfiction, essays, and speeches). They begin to read and respond to literary criticism. In formal seminar discussions, students further investigate philosophical and literary questions that arise in the texts. English 9 focuses on the PA Core Standards in reading, writing, speaking, and listening through a multi-genre approach to literature by exploring nonfiction, short stories, poetry, drama, and novels. It includes grammar, composition, multicultural literature, critical thinking skills, vocabulary development, oral communication, and research skills.

HONORS ENGLISH I**01001H****Credit: 1****Grades: 9**

Prerequisite: Honors Criteria

Honors English I focuses on the National Common Core & PA Core Standards in reading, writing, speaking, and listening through a multi-genre approach to literature by exploring nonfiction, short stories, poetry, drama, and novels. It includes grammar, composition, multicultural literature, critical thinking skills, vocabulary development, oral communication, and research skills.

The ninth-grade course is an overview of excellent literature across the major forms and genres (short story, novel, poetry, drama, epic poetry, and literary nonfiction). Each unit focuses on a genre and a related theme: for instance, drama and fate. In their essays, students might compare the use of symbolism in a short story and a painting or examine the role of free will in a certain play. They begin to read and respond to literary criticism. In formal seminar discussions, students further investigate philosophical and literary questions that arise in the texts. In addition to discussing and writing about works, students will memorize poems and excerpts of speeches and learn to deliver them with expression.

The honors class offers a more rigorous pace coupled with the expectation for students to be motivated self-starters who can work well independently.

ENGLISH II**01053K****Credit: 1****Grades: 10**

Successful Completion of English I

In tenth grade, students study literature and nonfiction. Each unit allows for close study of literary works, as well as consideration of historical and cultural context. Students can expect to read a variety of American literature selections, to write in primarily the expository mode of writing (including the composition of a research paper), to sharpen their grammatical skills, which they will incorporate into their writing, to increase their vocabulary base, to present their ideas in formal and informal presentations, and to listen to others' ideas in class discussions.

HONORS ENGLISH II

01053KH

Credit: 1

Grades: 10

Prerequisite: Successful Completion of English I and Honors Criteria

In tenth grade, students study literature from around the world. There are four twelve-week units (Russian literature; Asian literature; African and Middle Eastern literature; and Latin American literature). Schools can select three out of the four. Each unit allows for close study of literary works, as well as consideration of historical and cultural context. The units focus not only on geographical regions but also on themes and literary forms that pertain to them. Thus, students come to grasp the relationship between local concerns and universal questions. In the Russian literature unit, students begin by reading short Russian masterpieces of the nineteenth century, and proceed to read select twentieth century works in historical context. In the Asian literature unit, students observe and describe literary forms in texts. In the unit on Africa and the Middle East, students gain cultural insight as they explore prose and poetry. When studying the literature of Latin America, students read works by Jorge Luis Borges, Julio Cortázar, Gabriel García Márquez, and others. They become aware of the authors' views of literature itself—its forms, peculiarities, language, and relationship to reality.

Throughout the year, students take part in seminars, write essays, and deliver speeches. The honors class offers a more rigorous pace coupled with the expectation for students to be motivated self-starters who can work well independently.

ENGLISH III

01054

Credit: 1

Grades: 11

Prerequisite: English II

The ELA course for eleventh grade is devoted to a study of literature and nonfiction (diaries, letters, sermons, almanacs, speeches, and foundational documents), many opportunities exist to analyze historical and informational texts. Students come to see the fluid relationship between fiction and nonfiction. Throughout the year, students have opportunities to make connections with history, art, and other subjects. Essays range from the analytical to the creative. Students build on their writing skills from previous years, integrating multiple sources and perspectives into their work, reading literary criticism, and writing longer and more complex essays. To build appreciation of the sounds and cadences of literature, students continue to recite poems and speeches and refine their expressive delivery.

HONORS ENGLISH III

01054H

Credit: 1

Grades: 11

Prerequisite: English II and Honors Criteria

The ELA course for eleventh grade is devoted to a study of American literature from the colonial period to the late twentieth century. Because much of the early literature is nonfiction (diaries, letters, sermons, almanacs, speeches, and foundational documents), many opportunities exist to analyze historical and informational texts. Students come to see the fluid relationship between fiction and nonfiction: for instance, the literary tropes in Jonathan Edwards’s “Sinners in the Hands of an Angry God,” or the dual historical contexts of Arthur Miller’s *The Crucible*. In seminars, students discuss questions such as “Does Anne Bradstreet’s work typify or differ from the other Puritan literature that you have read?” and “How do Willy Loman and Tommy Wilhelm contend with being ‘nobody’?” Throughout the year, students have opportunities to make connections with history, art, and other subjects. Essays range from the analytical to the creative: students might write a narrative essay in the style of Thoreau’s *Walden* or compare the treatment of a given theme in works from different genres. Students build on their writing skills from previous years, integrating multiple sources and perspectives into their work, reading literary criticism, and writing longer and more complex essays. To build appreciation of the sounds and cadences of American literature, students continue to recite poems and speeches and refine their expressive delivery. By the end of the year, students have a foundation in American literature and are ready to branch out into European literature, which they study in twelfth grade. The honors class offers a more rigorous pace coupled with the expectation for students to be motivated self-starters who can work well independently.

ENGLISH IV

01057

Credit: 1

Grades: 12

Prerequisite: English III or English III Honors

Upon entering twelfth grade, students have read and discussed literary classics across the major genres and have studied. Units are arranged chronologically so that students may see how earlier works influence later works and how forms and ideas have evolved over time. Students consider prominent themes for each period. It is important to read poems in their original language, so most of the poetry studied this year is in English. Through immersion in the poetry students develop an ear for English metrical forms and learn to recite poems expressively from memory. In their essays and discussions, students may relate a work to its historical circumstances, trace a symbol through a work or works, or consider a moral or philosophical question. Writing assignments include essays and research papers. By the end of twelfth grade, students have become familiar with some of the major works and ideas of literature, have honed their skills of literary analysis, and have learned to write a research paper.

HONORS ENGLISH IV

01057H

Credit: 1

Grades: 12

Prerequisite: English III and Honors Criteria

Upon entering twelfth grade, students have read and discussed literary classics across the major genres and have studied world literature and American literature. Now they focus on European literature from the Middle Ages to the present: from Chaucer's *Canterbury Tales* and Dante's *Inferno* to twentieth century works such as Ionesco's *Rhinoceros* and Kafka's *Metamorphosis*. Units are arranged chronologically, so that students may see how earlier works influence later works and how forms and ideas have evolved over time. Students consider prominent themes for each period: for instance, the tension between reason and emotion in seventeenth-century literature, and questions of the relationship between art and nature in the literature of the eighteenth and early nineteenth century. It is important to read poems in their original language, so most of the poetry studied this year is in English. Through immersion in the poetry of Shakespeare, Donne, Milton, Blake, Wordsworth, Byron, Auden, and others, students develop an ear for English metrical forms and learn to recite poems expressively from memory. In their essays and discussions, students may relate a work to its historical circumstances, trace a symbol through a work or works, or consider a moral or philosophical question. Writing assignments include essays and research papers. By the end of twelfth grade, students have become familiar with some of the major works and ideas of European literature, have honed their skills of literary analysis, and have learned to write a research paper. The honors class offers a more rigorous pace coupled with the expectation for students to be motivated self-starters who can work well independently.

AP LITERATURE AND COMPOSITION

01006 AP

Credit: 1

Grades: 12

Prerequisite: English 11 or English 11 Honors and Honors Criteria

The course will engage students in careful reading and analysis of a challenging set of literary works from a range of genres including the novel, short story, poetry, and drama. The focus of the course will be on intensive reading and discussion of the literature, as well as introduce secondary critical essays for discussion and evaluation. Emphasis will be on becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way genre conventions and the resources of language contribute to effectiveness in writing. The course will include a writing component that focuses on expository, analytical, and argumentative writing about the literature through both discussion and essay format. Students will read, write, and discuss poetry, fiction, and drama at an advanced college level while using online resources to develop skills including sophisticated use of literary elements and terminology, close readings of various texts, creating, drafting, and editing college-level analytical essays, preparing and writing timed essays, and advanced use of mastery of standard English. Students are encouraged to take the AP English Composition course offered by The College Board in May.

BEGINNERS ENGLISH I**0100145A****Credit: 1****Grades: 9**

Prerequisite: Enrolled in US schools less than 1 year and Screener/Access Level 1.0 - 1.5 and had no HS course credits

This is an intensive course in English Language Acquisition for multi-lingual Learners who have an English Proficiency of Level 1 (Entering). Beginner English I focus on the WIDA Standards & PA Core Standards in reading, writing, speaking, and listening. It includes grammar, composition, multicultural literature, critical thinking skills, vocabulary development, oral communication, and research skills.

In a Beginner English I, the implementation of Read 180 Flex improves reading skills through personalized instruction and adaptive software. The program assesses each student's reading level and provides targeted activities to enhance comprehension, vocabulary, and fluency. By combining technology with teacher-guided instruction, Read 180 Flex supports significant progress in English language proficiency.

This course is taken with ELD Academic Lab 1.

ELD ENGLISH I**01001E****Credit: 1****Grades: 9**

Prerequisite: Screener/Access 1.6 – 3.5 with 4 years or less in US Schools

ELD English I focus on the WIDA Standards & PA Core Standards in reading, writing, speaking, and listening through a multi-genre approach to literature by exploring nonfiction, short stories, poetry, drama, and novels. It includes grammar, composition, multicultural literature, critical thinking skills, vocabulary development, oral communication, and research skills. It includes grammar, composition, multicultural literature, critical thinking skills, vocabulary development, oral communication, and research skills.

This course is taken with ELD Academic Lab I

ELD ACADEMIC LAB 1**010681****Credit: 1****Grades: 9**

Prerequisite: Enrolled in Beginner English 1 or ELD English 1

The Academic Lab I course is designed for students in Beginner English I or ELD English I who need additional assistance in enhancing their English language proficiency and literacy skills. Using a differentiated instructional model, this course employs the HMH 3D curriculum to expose students

to diverse language structures needed to be successful in both school and the real world through explicit teaching methods and peer interactions, emphasizing their cultural and linguistic strengths. Emphasis on the writing process using academic and domain specific vocabulary and use of productive language for speaking and presenting. Additionally, the use of Flashlight 360 will be used to monitor and develop speaking and writing proficiency.

This course is taken with Beginner English 1 or ELD English 1.

BEGINNERS ENGLISH II

0100145B

Credit: 1

Grades: 10

Prerequisite: Enrolled 2 or less years in US schools and Screener/Access 1.5 – 2.5 with 6 credits**

Beginner English II focuses on the WIDA Standards and PA Core Standards in reading, writing, speaking, and listening through a variety of American literature selections to begin writing expository writing and a composition of a research paper. It includes grammar, composition, multicultural literature, critical thinking skills, vocabulary development, oral communication, and research skills. In a Beginner English II, the implementation of Read 180 Flex improves reading skills through personalized instruction and adaptive software. The program assesses each student's reading level and provides targeted activities to enhance comprehension, vocabulary, and fluency. By combining technology with teacher-guided instruction, Read 180 Flex supports significant progress in English language proficiency.

This course is taken with ELD Academic Lab II.

ELD ENGLISH II

01053KE

Credit: 1

Grades: 10

Prerequisite: Screener/Access 1.6 – 3.5 with 4 years or less in US Schools

Beginner English II focuses on the WIDA Standards and PA Core Standards in reading, writing, speaking, and listening through a variety of American literature selections to begin writing expository writing and a composition of a research paper. It includes grammar, composition, multicultural literature, critical thinking skills, vocabulary development, oral communication, and research skills. To present their ideas in formal and informal presentations, and to listen to others' ideas and class discussions.

This course is taken with ELD Academic Lab II.

ELD ACADEMIC LAB II

01068E10

Credit: 1

Grades: 10

Prerequisite: Enrolled in Beginner English 2 or ELD English 2

The Academic Lab II course is designed for students in Beginner English II or ELD English II who need additional assistance in enhancing their English language proficiency and literacy skills. Using a differentiated instructional model, this course employs the HMH 3D curriculum to expose students to diverse language structures needed to be successful in both school and the real world through explicit teaching methods and peer interactions, emphasizing their cultural and linguistic strengths. Emphasis on the writing process using academic and domain specific vocabulary and use of productive language for speaking and presenting. Additionally, the use of Flashlight 360 will be used to monitor and develop speaking and writing proficiency.

This course is taken with Beginner English II or ELD English 2.

ELD ACADEMIC LAB III

01068E11

Credit: 1

Grades: 11

Prerequisite: Enrolled in ELD English 3

The Academic Lab III course is designed for students in Beginner English II or ELD English II who need additional assistance in enhancing their English language proficiency and literacy skills. Using a differentiated instructional model, this course employs the HMH 3D curriculum to expose students to diverse language structures needed to be successful in both school and the real world through explicit teaching methods and peer interactions, emphasizing their cultural and linguistic strengths. Emphasis on the writing process using academic and domain specific vocabulary and use of productive language for speaking and presenting. Additionally, the use of Flashlight 360 will be used to monitor and develop speaking and writing proficiency.

This course is taken with ELD English 3.

ELD ACADEMIC LAB IV

01068E10

Credit: 1

Grades: 12

Prerequisite: Enrolled in ELD English 4

The Academic Lab IV course is designed for students in Beginner English II or ELD English II who need additional assistance in enhancing their English language proficiency and literacy skills. Using a differentiated instructional model, this course employs the HMH 3D curriculum to expose students to diverse language structures needed to be successful in both school and the real world through explicit teaching methods and peer interactions, emphasizing their cultural and linguistic strengths. Emphasis on the writing process using academic and domain specific vocabulary and use of productive language for speaking and presenting. Additionally, the use of Flashlight 360 will be used to monitor and develop speaking and writing proficiency.

This course is taken with ELD English 4.

JOURNALISM I**11101****Credit:** 1**Grades:** 10, 11, 12

Prerequisite: English I or Honors English I

This course focuses on students' writing skills and developing their ability to compose different types of papers for a range of purposes and audiences. This course enables students to explore and practice descriptive, narrative, persuasive, and/or expository styles as they write paragraphs, essays, letters, applications, formal documented papers, technical reports as well as creative writing and portfolio development. Students will be required to compete in local and national writing competitions.

JOURNALISM II**11102****Credit:** 1**Grades:** 10, 11, 12

Prerequisite: Journalism I

This course is a continuation of Journalism I and focuses on students' writing skills and developing their ability to compose different types of papers for a range of purposes and audiences. This course enables students to explore and practice descriptive, narrative, persuasive, and/or expository styles as they write paragraphs, essays, letters, applications, formal documented papers, technical reports as well as creative writing and portfolio development. Students will be required to compete in local and national writing competitions.

CREATIVE WRITING**01104****Credit:** 1**Grades:** 10, 11, 12

Prerequisite: English I or Honors English I

This course focuses on students' writing skills and developing their ability to compose different types of papers for a range of purposes and audiences. This course enables students to explore and practice descriptive, narrative, persuasive, and/or expository styles as they write paragraphs, essays, letters, applications, formal documented papers, technical reports as well as creative writing and portfolio development. Students will be required to compete in local and national writing competitions.

THEATER ARTS I**05051****Credit:** 1**Grades:** 10, 11, 12

Prerequisite: None

This course will introduce students to a brief historical background of theater, techniques of sensory and emotional response, voice, movement, improvisation, character, and script analysis needed for theatrical interpretation through exercises, games, and activities.

THEATER ARTS II

05052

Credit: 1

Grades: 10, 11, 12

Prerequisite: Theater Arts I

This course is for the student who wants to intensify his or her theatre study. Students will research, select, and perform challenging monologues, dialogues, multiple-character scenes, and one-act plays for in-class and out of class audiences, using a variety of theatrical literature. Theatre Arts 2 will include a more in-depth study of voice, movement, character interpretation, script and play analysis. Students will read significant works by recognized playwrights. They will generate original plays, learn, and practice techniques, and increase their skills in theatre.

MULTIMEDIA PRODUCTION & JOURNALISM

Credit: 1

Grades: 10, 11, 12

Prerequisite: None

This course will combine journalism with multimedia production. Students in this course will utilize the video production studio to produce student productions to include school-wide announcements, public service announcements, digital newsletters and more. Students will conduct research and write original scripts for all productions

SCREENWRITING

04302

Credit: 1

Grades: 10, 11, 12

In this class we attempt to experience films in a manner similar to how we experience literature, music, sculpture, theatre, or dance. Our film study examines rudimentary techniques that contribute to telling a story on screen. The central goal of the course is to empower students as they become more informed, discriminating movie-goers. Through written analyses and class discussions, students are required to argue interpretations of films viewed both in and out of class.

CELEBRATING LITERACY HONORS

01066

Credit: 1

Grades: 10, 11, 12

This course will focus on wide reading. Students determine the underlying assumptions and values within the selected works and examine the structure, techniques, and intentions of the different genres being studied. Students will read, discuss, review, and respond to the books using poetry, music, art, and written composition.

SPECULATIVE FICTION HONORS

Credit: 1

Grades: 10, 11, 12

This course is designed to increase students' knowledge of the literary genres known as collectively as Speculative Fiction- a term that is used to describe various genres that "speculate" about imagined worlds such as science fiction, fantasy, horror, mystery, and superhero fiction. The emphasis will be on the study of literature- novels and short fiction with the occasional inclusion of video graphic content. Students will study the history and development of the various genres. The course is seeking to explore common themes, symbolism, and tropes common to all speculative fiction as well as contemporary trends and relevant issues within the literature within the genre.

SCIENCE FICTION HONORS

Credit: 1

Grades: 10, 11, 12

This course is designed to increase student's knowledge of the literary genre known as science fiction. The emphasis will be on the study of literature- novels and short fiction- with the occasional inclusion of video graphic content. Students will study the history, contemporary trends, and relevant issues within the literature within the genre. This course represents a deeper dive.

PUBLIC SPEAKING

Credit: 1

Grades: 9, 10, 11, 12

This course offers students the opportunity to learn how to use oral skills effectively in formal and informal situations. Students learn such skills as logic and reasoning, the organization of thought and supporting materials, and effective presentation of one's voice and body. Students will be introduced to numerous public speaking situations, and they will learn the methods, aims, and styles of a variety of events (e.g., formal debate, Lincoln-Douglas debate, expository speaking, radio broadcast, oral interpretation, and dramatic interpretation).

VOCABULARY DEVELOPMENT HONORS

22001

Credit: 1

Grades: 10, 11, 12

This course is designed to give the students an intensive immersion in a variety of vocabulary words to aid them on standardized tests like the SAT and the PSSA. Focus of study will revolve around vocabulary acquisition, contextual usage, and retention. Vocabulary will be learned from a combination of structured vocabulary lists, programmed vocabulary instructional activities, various readings from articles, short stories, and novels. Vocabulary games and puzzles will be utilized to help increase retention and usage.

MATHEMATICS

ALGEBRA I

02052K

Credit: 1

Grades: 9

Prerequisite: Successful completion of pre-Algebra course (8th grade)

Algebra I includes the study of properties and operations of the real number system; evaluating rational algebraic expressions; solving and graphing first degree equations and inequalities; translating word problems into equations; operations with and factoring of polynomials; and solving simple quadratic equations.

HONORS ALGEBRA I

02052KH

Credit: 1

Grades: 9

Prerequisite: Honors Criteria

Honors level courses include the same state standards as regular level courses, but instruction and classroom experiences are enriched, faster paced, with deeper learning opportunities, higher expectations for performance, interaction, and productivity. Students must be motivated self-starters who can work well independently. Successful Honors Algebra I students will increase the likelihood of AP success in mathematics.

GEOMETRY

02072

Credit: 1

Grades: 9, 10

Prerequisite: Algebra I

This course is designed to provide a rigorous study of geometry and measurement. The topics of this course include geometric representations, reasoning and proof, lines, properties of triangles, triangle congruence, right triangles, polygons and circles, geometric probability, properties of solids, and similarity. The instructional emphasis will be to utilize algebraic skills to develop conceptual understanding of the topics.

HONORS GEOMETRY

02072H

Credit: 1

Grades: 9, 10

Prerequisite: Honors Algebra I and Honors Criteria

Honors level courses include the same state standards as regular level courses, but instruction and classroom experiences are enriched, faster paced, with deeper learning opportunities, higher expectations for performance, interaction, and productivity. Students must be motivated self-starters who can work well independently. Successful Honors Geometry students will increase the likelihood of AP success in mathematics.

ALGEBRA II

02056

Credit: 1

Grades: 10, 11, 12

Prerequisite: Geometry

This course is designed to continue the rigorous progression of major topics in Algebra for students with a solid mathematical background and exceptional commitment to the learning process. These topics include a review of Algebra I topics, linear functions, polynomial functions, rational functions, radical functions, exponential functions, data analysis, and probability. The instructional emphasis will be to develop conceptual understanding of topics along with a procedural knowledge of their applications.

HONORS ALGEBRA II

02056H

Credit: 1

Grades: 10, 11, 12

Prerequisite: Geometry and Honors Criteria

Honors level courses include the same state standards as regular level courses, but instruction and classroom experiences are enriched, faster paced, with deeper learning opportunities, higher expectations for performance, interaction and productivity. Students must be motivated self-starters who can work well independently. Successful Honors Algebra II students will increase the likelihood of AP success in mathematics.

PROBABILITY & STATISTICS

02201

Credit: 1

Grades: 11, 12

Prerequisite: Algebra I, Algebra II, and Geometry

This is a course designed to introduce students to the many topics of basic probability and basic statistics. Students interested in business, finance, and engineering should consider this course crucial to their preparation for college. All students are welcome to enroll in an activity-based investigation of the seemingly unpredictable world of data.

HONORS PROBABILITY & STATISTICS

02201H

Credit: 1

Grades: 11, 12

Prerequisite: Algebra I, Algebra II, and Geometry and Honors criteria

Probability and Statistics courses focus on descriptive statistics, with an introduction to inferential statistics. Topics typically include event probability, normal probability distribution, collection and description of data, frequency tables and graphs, measures of central tendency and variability, random variables, and random sampling. Course topics may also include covariance and correlation, central limit theorem, confidence intervals, and hypothesis testing. Coursework is designed to incorporate group activities, projects, and current technologies, such as graphing calculators and Math XL. Coursework incorporates the following skills: communication, social, problem solving, technology, complex and critical thinking, and adapts them across all disciplines and makes meaningful connections to life's experiences.

AP STATISTICS

02203AP

Credit: 1

Grades: 11, 12

Prerequisite: Teacher Recommendation and Honors

Following the College Board's suggested curriculum designed to parallel college-level statistics courses, AP Statistics courses introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, sampling and experimentation, anticipating patterns, and statistical inference.

PRE-CALCULUS

02110

Credit: 1

Grades: 11, 12

Prerequisite: Algebra I, Algebra II, and Geometry

This is a semester mathematics course designed to integrate an extension of the rigorous progression of major topics in algebra and a study of trigonometry. The course topics will include algebraic concepts, functions, polynomials, transcendental functions, and systems of equations. The instructional emphasis will be to develop conceptual understanding of topics along with a procedural knowledge of their applications.

HONORS PRE-CALCULUS

02110H

Credit: 1

Grades: 11, 12

Prerequisite: Algebra I, Algebra II, Geometry, and Honors Criteria

This is a semester honors mathematics course designed to integrate an extension of the rigorous progression of major topics in Algebra and a study of trigonometry for students with a solid mathematical background and exceptional commitment to the learning process. This honors course will demand more from the student, and the teacher will have greater expectations than a regular

level course. The course topics will include algebraic concepts, functions, polynomials, transcendental functions, and systems of equations. The instructional emphasis will be to develop conceptual understanding of topics along with a procedural knowledge of their applications. Successful Honors Pre-calculus students will increase the likelihood of AP success in mathematics.

AP CALCULUS

02124AP

Credit: 1

Grades: 11, 12

Prerequisite: Pre-Calculus and Teacher Recommendation

This is a one-year college-level course designed to provide instruction in extremely rigorous mathematical topics. The course topics will include functions, graphs and limits, derivatives, and integrals. Students will prepare to take an advanced placement test for college credit or advanced placement. The skillful use of a graphing calculator is required, and students may want to purchase their own calculator. This course is intended only for students with an exceptional mathematical background and an extraordinary commitment to the learning process.

TRIGONOMETRY

02106

Credit: 1

Grades: 11, 12

Prerequisite: Algebra I, Algebra II, and Geometry

This is a semester mathematics course designed to continue the rigorous progression of major topics in Algebra that began in Algebra I and continued in Algebra II. Topics include, but are not limited to, operations with linear, quadratic, rational, and exponential expressions and functions, discrete math, probability, statistics, matrices, and trigonometry. This course is intended for those who have decided to pursue a post-secondary education in a non-math related field of study and to prepare them for college-level mathematics.

FINANCIAL LITERACY

02157

Credit: 1

Grades: 12

Prerequisite: Algebra I, Algebra II, Geometry

This course will focus on the importance of the financial world, including planning and managing money wisely. Areas of study taught through application in personal finance include sources of income, budgeting, banking, consumer credit, credit laws and rights, personal bankruptcy, insurance, spending, taxes, investment strategies, savings accounts, mutual funds, and the stock market, buying a vehicle, and living independently. Based on the hands-on skills and knowledge applied in this course, students will develop financial goals, and create realistic and measurable objectives to be MONEY SMART! Through project-based learning activities and tasks, students will apply mathematical concepts in realistic scenarios and will actively engage by applying the mathematics necessary to make informed decisions related to personal finance. Financial Literacy places great emphasis on problem solving, reasoning, representing, connecting, and communicating financial data.

COLLEGE ALGEBRA-CHS PROGRAM WITH HACC

Credit: 1 (HBGSD);

Grades: 12

3 college credits if college passing requirements are met.

Prerequisite: Successful placement through the College Testing and Placement Program

Topics include Fundamental algebraic operations, exponents and radicals, systems of equation, higher degree equations, logarithms, matrices, and inequalities. Outcomes: Upon successful completion of the course the student will be able to: solve equations and inequalities and application problems; graph and identify characteristics of algebraic and transcendental function; perform function operations and solve systems of equations using matrices.

TRIGONOMETRY-CHS PROGRAM WITH HACC

Credit: 1 (HBGSD);

Grades: 12

3 college credits if college passing requirements are met.

Prerequisite: Successful placement through the College Testing and Placement Program

Topics include Trigonometric functions, relationships, and graphs; identities and trigonometric equations; composite, multiple, and half-angle formulas; complex numbers; De Moiré's theorem.

Learning Outcomes: At the conclusion of the course, students should be able to identify characteristics of the unit circle; graphically and verbally describe trigonometric functions, their inverses, and their relationships to one another; determine angle measures and side lengths for any triangle; verify and use appropriate trigonometric identities; solve trigonometric equations and application problems and illustrate knowledge of vector properties, parametric equations, trigonometric form of complex numbers and polar equations.

SCIENCE

INTEGRATED SCIENCE

03201

Credit: 1

Grades: 9

Prerequisite: None

This is an inquiry-oriented science course involving principles and concepts concerning the physical world and ecology. Content areas include measurement; the nature and behavior of matter; atomic theory; chemical and physical changes, including bonding and reactions; and study of interactions of organism and their environment. The course emphasizes the study and proper use of fundamental science tools. Required laboratory activities reinforce the concepts and principles presented in the classroom.

HONORS INTEGRATED SCIENCE

03201H

Credit: 1

Grades: 9

Prerequisite: Honors Criteria

Honors level courses include the same state standards as regular level courses, but instruction and classroom experiences are enriched, faster paced, with deeper learning opportunities, higher expectations for performance, interaction, and productivity. Students must be motivated self-starters who can work well independently. Required laboratory activities reinforce the concepts and principles presented in the classroom. Successful Honors Integrated Science students will increase the likelihood of AP success in science.

BIOLOGY

03051K

Credit: 1

Grades: 10

Prerequisite: Integrated Science

This course will focus on the investigation of the living world and the interactions of the living with the non-living factors in the environment. The course will cover the topics of Biology Basics of Life; The Chemistry of Biology; Bioenergetics; Homeostasis and Transport; Cell Growth and Reproduction; DNA and Genetic Inheritance; Evolution and Ecology. Required laboratory activities reinforce the concepts and principles presented in the classroom and include extensive microscope investigations.

HONORS BIOLOGY

03051KH

Credit: 1

Grades: 10

Prerequisite: Integrated Science and Honors Criteria

Honors level courses include the same state standards as regular level courses, but instruction and classroom experiences are enriched, faster paced, with deeper learning opportunities, higher expectations for performance, interaction and productivity. Students must be motivated self-starters who can work well independently. Required laboratory activities reinforce the concepts and principles presented in the classroom and include extensive microscope investigations. Successful Honors Biology students will increase the likelihood of AP success in science.

CHEMISTRY

03101

Credit: 1

Grades: 10, 11

Prerequisite: Algebra I and Biology

This course is designed for the college-bound student. Basic chemical concepts will be studied, and scientific principles will be taught. The topics covered include an introduction to the science of chemistry, atomic theory, matter and its changes, the periodic table, chemical reactions and stoichiometry, and chemical bonding. Laboratory work will comprise a major portion of this course.

HONORS CHEMISTRY

03101H

Credit: 1

Grades: 10, 11

Prerequisite: Honors Biology and Honors Criteria

Honors level courses include the same state standards as regular level courses, but instruction and classroom experiences are enriched, faster paced, with deeper learning opportunities, higher expectations for performance, interaction, and productivity. Students must be motivated self-starters who can work well independently. The student is expected to have a working knowledge of basic algebra, including basic mathematical skills, use of a calculator, scientific notation, and the metric system. Successful Honors Chemistry students will increase the likelihood of AP success in science.

ENVIRONMENTAL SCIENCE

03003

Credit: 1

Grades: 11, 12

Prerequisite: Biology

Environmental Science is a survey course designed to introduce the student to the basic ecological principles of energy flow, food chains, levels of organization, the major ecosystems of the biosphere, and the impact of humans on the environment. This course will guide the student in applying the scientific method through laboratory investigations of pollution and air, land, water, and solid waste disposal. Laboratory investigations, field trips, and current environmental problems in the news media will be incorporated.

HONORS ENVIRONMENTAL SCIENCE

03003H

Credit: 1

Grades: 11, 12

Prerequisite: Biology and Integrated Science

The environmental science course examines the relationships between organisms and their environments with a focus on ecology and conservation. Course topics include symbiosis, population dynamics, nutrient/chemical cycling, and succession as a response to both natural and human phenomena. The course will incorporate lab experiences, including research within the aquaponics laboratory. Additionally, current scholarly research studies in the field of ecology will be discussed throughout the course.

EARTH SCIENCE

03001

Credit: 1

Grades: 11, 12

Prerequisite: Integrated Science

Earth Science is a laboratory science course that explores origins and the connections between the physical, chemical, and biological processes of the earth system. Student experience the content of Earth Science through inquiry-based laboratory investigations and focus on topics associated with the study of meteorology, geology, astronomy, climatology, and oceanography needed to understand

events in the earth system. Earth Science provides the knowledge, skills, and habits of mind needed for problem solving and ethical decision making about scientific and technological issues. Students are challenged to develop independent research capabilities and to develop and practice good critical thinking skills, including the ability to analyze, synthesize, and apply scientific information.

FORENSIC SCIENCE

03162FSI

Credit: 1

Grades: 11, 12

Prerequisite: Biology

This course will introduce students to basic forensic science skills including the following: History of forensics, securing crime scenes, individualized vs. identified evidence, fingerprinting evidence (securing and analyzing), and microscope analysis of trace evidence. This course examines the principles and procedures employed in criminal and civil investigations. It includes all areas of scientific endeavor, such as medicine, psychiatry, psychology, geology, physics, chemistry, and biology. Students will focus on applying current scientific methods to the collection, documentation, preservation, examination, and interpretation of criminal evidence.

MARINE BIOLOGY

03005

Credit: 1

Grades: 10, 11, 12

Prerequisite: Biology

The students in this course are presented with an ecological approach to life in the sea. The curriculum exposes students to scientific principles that govern the organization and perpetuation of a marine existence. These principles include oceanography, open ocean organisms, deep sea biology, subtidal and benthic communities, intertidal ecology, estuaries and salt marshes, symbiotic communities and human intervention in the sea.

ZOOLOGY

03061

Credit: 1

Grades: 10, 11, 12

Prerequisite: Biology

In this curriculum, students survey the animal kingdom from simple invertebrates to complex vertebrate species. Topics of focus include anatomy and physiology, distinguishing characteristics of the phyla, life cycles, biodiversity and distribution, species endangerment, development, evolution, adaptive behaviors, various structural and feeding adaptations, identification, and field study.

AP ENVIRONMENTAL SCIENCE

03003AP

Credit: 1

Grades: 11, 12

Prerequisite: Successful completion of Algebra I, Biology, and Chemistry (chemistry may be taken concurrently)

Following the guidelines of College Board, this course is the equivalent of a one-semester, introductory college course in environmental science, through which students engage with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography

PHYSICS

03151

Credit: 1

Grades: 11, 12

Prerequisite: Integrated Science, Biology and Chemistry

This course is designed for college bound students and for those students who want a challenging introductory physics course. Students will be introduced to physical concepts through inquiry, research projects, and computer-aided instruction. Students will develop skills to reason, understand, and interpret physical information. The course will include key topics in Kinematics, Dynamics, Mechanics, Thermodynamics, Waves Studies, and Electromagnetism.

HONORS PHYSICS

03151H

Credit: 1

Grades: 11, 12

Prerequisite: Integrated Science, Biology and Chemistry

Honors level courses include the same state standards as regular level courses, but instruction and classroom experiences are enriched, faster paced, with deeper learning opportunities, higher expectations for performance, interaction, and productivity. Students must be motivated self-starters who can work well independently.

HUMAN ANATOMY AND PHYSIOLOGY

03053

Credit: 1

Grades: 10, 11, 12

Prerequisite: Integrated Science and Biology

This course is designed for students who have a strong interest in learning about the structures and functions of the human body and who may want to pursue a career in the medical, nursing, or paramedical areas. The course will focus on a yearlong program of intense human anatomy and physiology studies. The topics covered will include principles of basic anatomy and physiology,

medical terminology, basic chemistry, cell and tissue structure, and the eleven organ-systems of the human body and the primary diseases associated with each. Extensive laboratory work will reinforce classroom activities.

AP BIOLOGY

03056AP

Credit: 1

Grades: 11, 12

Prerequisite: Successful completion of Honors Biology

The revised AP* Biology course addresses this challenge by shifting from a traditional “content coverage” model of instruction to one that focuses on enduring, conceptual understandings and the content that supports them. This approach will enable the students to spend less time on factual recall and more time on inquiry-based learning of essential concepts and will help them develop the reasoning skills necessary to engage in the science practices used throughout their study of AP Biology. Students are encouraged to take the AP exam by in May.

AP CHEMISTRY

03106AP

Credit: 1

Grades: 12

Prerequisite: Successful completion of Honors Chemistry and Algebra II

Following the curricula recommended by the College Board, AP Chemistry courses usually follow high school chemistry and second-year algebra. Topics covered may include atomic theory and structure; chemical bonding; nuclear chemistry; states of matter; and reactions (stoichiometry, equilibrium, kinetics, and thermodynamics).

Offered every other year on the odd years, or as needed based upon student requests.

AQUAPONICS INTERNSHIP

Credit: 1

Grades: 11, 12

Prerequisite: Application and Instructor Permission

The aquaponics internship is designed to provide a small group of students with entry level skills in aquaponics farming. Interns are responsible for the daily management and maintenance of the aquaponics lab at SciTech High School under the supervision of the aquaponics mentor. Students wishing to apply must have demonstrated attendance, reliability, and responsibility. Through the internship, students will learn about aseptic techniques, nutrient flow, seeding and harvesting of crops, water quality monitoring, and animal husbandry. Students will also build entrepreneurial skills by participating in the bi-weekly farm stand sales and restaurant partnerships. Additionally, students deepen their understanding of biological systems, while observing the interdependence of organisms and abiotic factors within the living system.

HONORS ENGINEERING

21002H

Credit: 1

Grades: 10, 11, 12

Prerequisite:

This course will require good mathematics skills and a willingness to think! This is an honors level course that will enhance all your STEM skills. We will start the year with the study of general skills needed for all engineering disciplines and then branch into specific study of civil, electrical, mechanical, and manufacturing, computer, chemical and materials engineering areas. This class will be heavy in algebra and will fully support all the algebra common core standards.

HONORS ROBOTICS

21009H

Credit: 1

Grades: 10, 11, 12

Prerequisite:

Honors Robotics is a hands-on learning course that will teach students to develop skills scripting, programming, and executing basic tasks using LEGO MINDSTORMS robotics kits. Students will learn current programming languages (Robotics, C++) that are used in industrial, commercial, and personal technological devices. Students who enroll in this course also join the Robotics Club which competes in multiple First Tech Challenge events during the fall and winter of every year.

COLLEGE IN THE HIGH SCHOOL BIOLOGY (BIOLOGY 101 HACC)

03051KDB

Credit: 1 (HBGSD);

Grades: 11, 12

4 college credits if college passing requirements are met.

Prerequisite: Successful completion of Honors Biology and Honors Chemistry
HACC Placement Test

Students taking this course will be dual-enrolled and will receive credit for SciTech and HACC. The course follows the HACC Biology 101 curriculum. Students will deepen their knowledge and understanding of cellular biology by investigating the following major concepts: biological organization; basic biochemistry; biophysics of living systems; membrane dynamics; cellular structures and functions; cellular reproduction, photosynthesis; cellular respiration; chromosomal and molecular inheritance. Students will develop their skills of analyzing peer reviewed research, conducting controlled experimental investigations, and critically discussing science topics that are relevant in daily society.

COLLEGE IN THE HIGH SCHOOL BIOLOGY II (BIOLOGY 102 HACC)

Credit: 1 (HBGSD);

Grades: 11, 12

4 college credits if college passing requirements are met.

Prerequisite: Successful completion of College in the High School Biology I

Students taking this course will be dual-enrolled and will receive credit for SciTech and HACC.

This course continues the competencies taught in BIOLOGY 101. It emphasizes basic life functions of animal systems as it provides a detailed examination of organ systems which, in the mammal, support homeostasis. In addition, this course presents the principles of heredity, reproduction, and embryology; evolution as a process; and structure, function, and classification of major phyla of the animal kingdom. It includes laboratory investigations, lectures, a research paper, and discussions.

Students will develop their skills of analyzing peer reviewed research, conducting controlled experimental investigations, and critically discussing science topics that are relevant in daily society.

SOCIAL STUDIES

CIVICS AND U.S. HISTORY I

04161

Credit: 1

Grades: 9

Prerequisite: None

Civics & United States History provides a framework for understanding the basic tenets of American democratic practices as established by the United States Constitution. Basic concepts of American government and citizenship are addressed in this course. The course is framed to develop students' increased understanding of the institutions of a democracy and the fundamental principles and values upon which they were founded. The skills necessary to participate as effective and responsible citizens in our nation will be developed in this course along with the knowledge of how to use democratic procedures for making decisions and managing conflict. This course will provide the historical context and foundation necessary for the development and understanding of civic concepts. The historical focus of this course will start with the Civil War and Reconstruction Era and end in 1929 with the causes of the Great Depression. This course builds upon the social studies courses taught in kindergarten through eighth grades and is aligned with the PA Academic Standards and the PA Common Core Standards for Reading and Writing for History and Social Studies. The PA Common Core State standards for Reading and Writing in History and Social Studies have also been infused throughout this course.

HONORS CIVICS AND U.S. HISTORY I

04161H

Credit: 1

Grades: 9

Prerequisite: Honors Criteria

Honors level courses include the same state standards as regular level courses, but instruction and classroom experiences are enriched, faster paced, with deeper learning opportunities, higher expectations for performance, interaction and productivity. Students must be motivated self-starters who can work well independently. Successful Honors Civics and U.S. History students will increase the likelihood of AP success in social studies.

U.S. HISTORY II

04103

Credit: 1

Grades: 10

Prerequisite: Civics & U.S. History

This course provides students with the opportunity to acquire an understanding of the development of the United States and The American people from the Great Depression Era through the 1990's. This course will examine the United States from political, social, economic, scientific, military, religious and cultural viewpoints and will utilize chronological and thematic approaches. This course will incorporate current events to highlight connections between the past and the present when applicable. The following skills will be developed in this course: reading, writing, speaking, listening, mapping, graphing, critical and analytical thinking, and source analysis. Students will work both independently and cooperatively in the acquisition and development of the above skills. A variety of assessments will be used in this course to include quizzes, tests, document based questions and a variety of project based assessments. Areas of study will include The Great Depression & New Deal, World War II, The Cold War Era, The Civil Rights Movement, The Vietnam War, and Contemporary America. This course has been aligned with the PA Academic Standards for History, Economics, Geography and Civics & Government. The PA Common Core State standards for Reading & Writing for History and Social Studies have also been infused throughout this course.

HONORS U.S. HISTORY II

04103H

Credit: 1

Grades: 10

Prerequisite: Civics & U.S. History and Honors Criteria

Honors level courses include the same state standards as regular level courses, but instruction and classroom experiences are enriched, faster paced, with deeper learning opportunities, higher expectations for performance, interaction and productivity. Students must be motivated self-starters who can work well independently. Successful Honors U.S. History II students will increase the likelihood of success in AP.

YOUR GOVERNMENT, YOUR WORLD

04051

Credit: 1

Grades: 11

Prerequisite: U.S. History II

This course will examine the past, present and future of global issues including: The rights and responsibilities of citizenship, the U.S. role in a global world, foreign aid, terrorism, immigration, and universal human rights. Students will become engaged citizens in this course and will interact with issues and concepts through reading, writing, discussion, debate, research, note-taking, civic participation and other authentic primary sources and activities. This course has been aligned with the PA Academic standards for History, Economics, Geography and Civics & Government. The PA Common Core State standards for Reading & Writing for History and Social Studies have also been infused throughout this course.

HONORS YOUR GOVERNMENT, YOUR WORLD

04051H

Credit: 1

Grades: 11

Prerequisite: Honors U.S. History II

Honors level courses include the same state standards as regular level courses, but instruction and classroom experiences are enriched, faster-paced, with deeper learning opportunities, higher expectations for performance, interaction and productivity. Students must be motivated self-starters who can work well independently. Successful Honors Your Government Your World students will increase the likelihood of AP success in social studies.

AP WORLD HISTORY

04057

Credit: 1

Grades: 11

Prerequisite: Teacher Recommendation

AP World History focuses on developing students' abilities to think conceptually about world history from approximately 8000 BCE to the present and apply historical thinking skills as they learn about the past. Five themes of equal importance: focusing on the environment, cultures, state building, economic systems, and social structures, will provide areas of historical inquiry for investigation throughout the course. AP World History encompasses the history of the five major geographical regions of the globe: Africa, the Americas, Asia, Europe, and Oceania, with special focus on historical developments and processes that cross multiple regions. Students will be encouraged to take the AP World History exam in May.

AFRICAN AMERICAN STUDIES

041491

Credit: 1

Grades: 10, 11, 12

Prerequisite: None

The purpose of this course is to provide students with knowledge, skills, and perspectives necessary to understand the development of the African American heritage. Using a chronological sequence, this course traces the African heritage of African Americans from its origins in the great empires of the Nile River Valley and the western Sudan through 1914. Emphasis will be placed on African American ancestry, geography, economics, government civics, culture, religion and the arts, education, business, science, slave trade, civil rights movement, and the military.

This course has been aligned with the PA Academic standards for History, Economics, Geography and Civics & Government. The PA Common Core State standards for Reading & Writing for History and Social Studies have also been infused throughout this course.

LATINX STUDIES

04062

Credit: 1

Grades: 10, 11, 12

Prerequisite: None

This course will provide students with the opportunity to explore Latin American culture, history, society, and geography. Students will study the cultural and ethnic distinctions that exist between Latin-American countries, from both historical and contemporary perspectives. Students will also have the opportunity to explore the impact and contributions of groups that have immigrated to the United States from across Latin America on the political, social and economic structures of the United States. This course has been aligned with the PA Academic standards for History, Economics, Geography and Civics & Government. The PA Common Core State standards for Reading & Writing for History and Social Studies have also been infused.

POLITICAL SCIENCE

04153

Credit: 1

Grades: 10, 11, 12

Prerequisite: Civics and U.S. History

This course would be an introduction to classic thinkers, in political science, as well as essential concepts in Western political thought. Topics would include democracy, rights, sovereignty, republicanism, majorities, and minorities. The course would also introduce foundations and principles of American national government, including Constitutional principles, functions, and administration of the federal government, Congress, the Presidency, the Supreme Court, and the U.S. political system. This course has been aligned with the PA Academic standards for History, Economics, Geography and Civics & Government. The PA Common Core State standards for Reading & Writing for History and Social Studies have also been infused throughout this course.

PSYCHOLOGY/SOCIOLOGY

04254

Credit: 1

Grades: 10, 11, 12

Prerequisite: None

This course is designed to help students develop a better understanding of themselves and others. This is an academic course, aimed at preparing the students for education beyond high school. Units of study will include learning and intelligence, the brain and behavior, the endocrine system and behavior, theories of personality, suicide, identification of common disorders, and an overview of the treatments used from the 1930's to the present. Units of study will also include social institutions, dysfunctional relationships, relationships between the sexes, races and ethnic groups, group behavior, social trends and socialization, deviations from the norm, social conflict, class structures, and social stratification. Students will take part in mock marriages in order to learn financial management, research and presentation skills and group dynamics. This course has been aligned with the PA Academic standards for History, Economics, Geography and Civics & Government. The PA Common Core State standards for Reading & Writing for History and Social Studies have also been infused throughout this course.

AP PSYCHOLOGY

04256AP

Credit: 1

Grades: 11, 12

Prerequisite: Teacher recommendation

The purpose of the AP course in Psychology is to introduce the systematic and scientific study of the behavior and mental processes of human beings and other animals. Included is a consideration of the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students also learn about the ethics and methods psychologists use in their science and practice. Students will be encouraged to take the AP Psychology exam in May.

INTRODUCTION TO LAW ENFORCEMENT

15053

Credit: 1

Grades: 10, 11, 12

Prerequisite: None

This course provides an overview of the history, development, and philosophies of crime control within a democratic society. It examines the criminal justice system with an emphasis on law enforcement, prosecution and defense, the courts, and correctional agencies. Students will develop communication strategies including use of body language in interpersonal communication, note-taking and report-writing skills. Students will study various equipment used to communicate, learn to apply anger management techniques to resolve conflicts, and display integrity and a commitment to ethical behavior in the performance of duties of law enforcement personnel.

CRIMINAL JUSTICE

15051

Credit: 1

Grades: 10, 11, 12

Prerequisite: None

Students will study social life, social change and the social causes and consequences of behavior. Students will use a social science research model to investigate contemporary American issues of social inequality, patterns of behavior, forces for social change and resistance, and also learn how social systems work. Students will study people in their interactions with others and practice interpersonal skills. They will discuss self-concept, develop an understanding of how people function as individuals and members of groups, and understand the impact of social institutions. Content includes introductions to criminology, ethics as applied to correction services, legal responsibilities, teamwork, Constitutional law, use of force and conflict resolution.

ECONOMICS

12105

Credit: 1

Grades: 10, 11, 12

Prerequisite: None

This course is designed to introduce students to both the basic principles used in economic theory and to the institutional details of the organization of economic systems in the United States and other countries. In addition, the course helps students understand the ways in which different economies are linked and the effects of economic interactions within and between countries. The contents of the course include demand and supply analysis, national income accounting, economic growth, monetary and fiscal policies, as well as, global economic issues such as international trade and capital flows.

HISTORY OF SPORTS

04999

Credit: 1

Grades: 10, 11, 12

Prerequisite: None

This course will focus on in the American sporting experience, from the Colonial Era to the present. The course will emphasize the historical relationship between sports and class, race, ethnicity, gender, and region, as well as the power of sports to bind diverse people together. Sports history will also focus on the impact of sports on various social, political and economic movements as well as leaders in sports that have impacted social change throughout history. Local sports history will also be included in this course.

YOUTH COURT I

04162

Credit: 1

Grades: 10, 11, 12

Prerequisite: None

This course is designed to provide students with the training and practice needed to implement the Harrisburg High School Youth Court Program. The course will begin by providing students with an overview of the Youth Court Program and the underpinnings of the United States Judicial System. Students will also learn about the importance of confidentiality and the impact of brain development on adolescents. At the conclusion of training, students will conduct Youth Court proceeding for their peers involved in level 1 discipline infractions. This course will also focus on the development of critical thinking, listening, speaking and peer mediation skills.

YOUTH COURT II

Credit: 1

Grades: 11, 12

Prerequisite: None

This course is a continuation of Youth Court I. Students in Youth Court II will have the opportunity to provide training to Youth Court I students and students in district middle schools. In addition to training, students will engage in Youth Court proceeding for students referred for level I disciplinary infractions. Students will serve as Youth Court Ambassadors and encourage the implementation of restorative justice and restorative practices throughout the school and larger community.

MOCK TRIAL HONORS

04166

Credit: 1

Grades: 10, 11, 12

Prerequisite: None

What is a trial, how does it work and who is involved? At the core of this course, we will focus on how to litigate. We will learn everything needed to try a court case including making opening and closing arguments, examining witnesses, entering exhibits as evidence, and making objections. The curriculum will also cover law concepts including juvenile rights, rights of the accused, and other criminal matters as well as Landmark Supreme Court Cases. This elective is considered pre-law and should be taken by those who are considering a law- related field in college. The course will focus on STEM as well.

WOMEN'S HISTORY IN THE US HONORS

04109H

Credit: 1

Grades: 10, 11, 12

Prerequisite: None

This class will address the experiences of the women from colonial times to the present. We will examine the origins and development of the formation of gender roles, the rise of gender equality and suffrage, the struggles of African American women, the contribution of women to American life, and the evolution of 20th century women's rights. Students will also have an opportunity to work on skills that are necessary to work in large and small groups. To capitalize on the strengths in every student a variety of assessments and teaching techniques will be used. Group work, oral presentations, group and individual projects, journals, Internet activities, quizzes, essays, media presentations, and other techniques will be used.

HISTORY 103 HISTORY OF THE UNITED STATES I

Credit: 1

Grades: 11, 12

Prerequisite: Teacher recommendation

This College in the High School course covers the history of the United States from Pre-European colonization to the year 1865. This course examines the major events, as well as the individuals, that played a significant role in the development of the United States during this time. Special attention is paid to the following topics: Native America, European Conquest and Settlement, the Atlantic Economy, Imperial Conflicts in North America, America and the Revolution, the New Republic, Jacksonian America, Westward Expansion, Antebellum America, and A Divided Union and the American Civil War.

HISTORY 104 HISTORY OF THE UNITED STATES II

04103CHS

Credit: 1

Grades: 11, 12

Prerequisite: Teacher recommendation

This College in the High School course covers the history of persons and events that have contributed to life in America from Civil War Reconstruction to the present. This course specifically addresses: Civil War Reconstruction including the Principles and Causes of the Civil War; Industrialization and the Gilded Age; Conflicts and Change in the West; United States Foreign Policy and Imperialism; the Progressive Era; World War I; the 1920s; the Great Depression and the New Deal; World War II; the Cold War and Vietnam; the Civil Rights Movement; Rising Power of American Conservatism; the Clinton Era; Globalization; and living in a Post 9/11 World.

PHYSICAL EDUCATION 1**080013****Credit: 1****Grades: 9, 10, 11, 12**

Prerequisite: None

This course is designed to meet the needs of all students at Harrisburg High School through a wide range of activities and will satisfy the graduation requirement for Physical Education. Through this process, the teacher will attempt to establish physical activity as a vital and continuing part of life. Physical Education is a co- educational program where each student may register at the beginning of each quarter for a different activity.

PHYSICAL EDUCATION 1/2**080014****Credit: 0.5****Grades: 11, 12**

Prerequisite: 0.5 credit of Physical Education

This course is designed to meet the needs of all students at Harrisburg High School through a wide range of activities. Through this process, the teacher will attempt to establish physical activity as a vital and continuing part of life. Physical Education is a co-educational program where each student may register at the beginning of each quarter for a different activity.

HEALTH AND WELLNESS 1**080513****Credit: 1****Grades: 9, 10, 11, 12**

Prerequisite: None

This course is a one semester course and will satisfy the graduation requirement for Health and Wellness. The course is based on the National Health Education Standards that specify what students should know and be able to do.

HEALTH AND WELLNESS 1/2**080514****Credit: 0.5****Grades: 11, 12**

Prerequisite: 0.5 credit of Health and Wellness

This course is a one marking period course and will satisfy the graduation requirement for Health and Wellness. The course is based on the National Health Education Standards that specify what students should know and be able to do.

ADVANCED LIFETIME FITNESS & WELLNESS CONCEPTS

Credit: 1

Grades: 10, 11, 12

Prerequisite: Health & Wellness I

The study of “Advanced Lifetime Fitness and Wellness Concepts” course is designed to educate upperclassmen, 10-12 grade who have fulfilled the required pre-requisites. Throughout this course, students assess individual fitness levels according to the five components of physical fitness: cardiovascular health, muscular strength, muscular endurance, flexibility, and body composition. Students will also demonstrate knowledge of wellness concepts including but not be limited to strength and conditioning, advanced nutrition, stress management, healthy habits, and social responsibilities. This course will be delivered through standard classroom-based instruction concurrently with kinesthetic-tactile techniques via weight training and fitness centers. Upon completion of this course, students will have the knowledge to stay active and physically fit throughout their lifetimes.

ADVISORY

ADVISORY 9

101

Credit: 0.5

Grades: 9

Prerequisite: None

Every student at Harrisburg High School, John Harris Campus will be assigned a faculty advisor. Students will meet with their advisor daily for thirty minutes at the start of each day. During this advisory period, students will engage in social-emotional learning activities and will review their course grades, attendance and discipline data with their advisor. Students will have the opportunity during this period to set individual goals and to discuss progress with their advisor. Students will also receive counseling to support the course selection process. Additionally, students will receive guidance in the career exploration from the school counselors.

ADVISORY 10

101

Credit: 0.5

Grades: 10

Prerequisite: None

Every student at Harrisburg High School, John Harris Campus will be assigned a faculty advisor. Students will meet with their advisor daily for thirty minutes at the start of each day. During this advisory period, students will engage in social-emotional learning activities and will review their course grades, attendance and discipline data with their advisor. Students will have the opportunity during this period to set individual goals and to discuss progress with their advisor. Students will also receive support during the course selection process.

ADVISORY 11

101

Credit: 0.5

Grades: 11

Prerequisite: None

Every student at Harrisburg High School, John Harris Campus will be assigned a faculty advisor. Students will meet with their advisor daily for thirty minutes at the start of each day. During this advisory period, students will engage in social-emotional learning activities and will review their course grades, attendance and discipline data with their advisor. Students will have the opportunity during this period to set individual goals and to discuss progress with their advisor. Students will also receive guidance to support the course selection process.

ADVISORY 12

101

Credit: 0.5

Grades: 12

Prerequisite: None

Every student at Harrisburg High School, John Harris Campus will be assigned a faculty advisor. Students will meet with their advisor daily for thirty minutes at the start of each day. During this advisory period, students will engage in social-emotional learning activities and will review their course grades, attendance and discipline data with their advisor. Students will have the opportunity during this period to set individual goals and to discuss progress with their advisor. During senior advisory, students will receive guidance to support the college application process.

ART AND GRAPHIC DESIGN

DESIGN FOR PUBLICATION I

11104

Credit: 1

Grades: 10, 11, 12

Prerequisite: None

Students will be working with and taking charge of the planning and preparation of materials for the publication of the annual high school yearbook. Advanced experiences in organization, theme, copy development, typography, graphics, drawing illustrations, and photographic techniques will be offered. Meeting deadlines will be mandatory. Students will have extensive responsibilities for organizing, designing, and writing the yearbook.

DESIGN FOR PUBLICATION II

111042

Credit: 1

Grades: 10, 11, 12

Prerequisite: Design for Publication I

Students will be working with and taking charge of the planning and preparation of materials for the publication of the annual high school yearbook. Advanced experiences in organization, theme, copy development, typography, graphics, drawing illustrations, and photographic techniques will be offered. Meeting deadlines will be mandatory. Students will have extensive responsibilities for organizing, designing, and writing the yearbook.

DESIGN FOR PUBLICATION III

111043

Credit: 1

Grades: 10, 11, 12

Prerequisite: Design for Publication II

Students will be working with and taking charge of the planning and preparation of materials for the publication of the annual high school yearbook. Advanced experiences in organization, theme, copy development, typography, graphics, drawing illustrations, and photographic techniques will be offered. Meeting deadlines will be mandatory. Students will have extensive responsibilities for organizing, designing, and writing the yearbook.

GRAPHIC COMMUNICATIONS

05161

Credit: 1

Grades: 10, 11, 12

Prerequisite: None

This course is designed so that students will develop a working knowledge of the basic techniques of printing and related areas. They will be introduced to the nature of employment and employment opportunities in the field of graphics and industrial communications.

GRAPHIC DESIGN & PRODUCTION

05162GDP

Credit: 1

Grades: 10, 11, 12

Prerequisite: Graphic Communications

This course will provide practical exercises and learning opportunities accompanied by theory. Opportunities for career in the graphic design field will be great due to the advancement of technologies and anticipated growth in advertising, public relations, and print communications. Students will learn how the industry functions and follow an idea through the creative stages, layout, design and production. Students are introduced to all the areas in the computer graphics design and printing industry and will be required to apply knowledge in a workplace environment. They will also be introduced to live work related to all design and production areas focusing on Xerox production equipment. Troubleshooting and problem-solving skills will be developed. Other career options for the students will include sign-making, screen printing, and digital media operations.

PRINTING TECHNOLOGY MANAGEMENT

05162PTM

Credit: 1

Grades: 11, 12

Prerequisite: Graphic Design and Production

This course is a double period lab that will enable students to learn the printing process through customer service and sales, scheduling and quality control while exposing students to entrepreneurship. This will include applying knowledge of customer needs and expectations with printing services, equipment, capabilities, workflow processes, data acquisition, and technology to customer service; and handling scheduling processes to ensure timely completion of projects. Students will learn to identify and communicate quality control measures including standards and expectations for a job.

ART I

051541

Credit: 1

Grades: 10, 11, 12

Prerequisite: None

Do students like to draw? Are students a creative person? Art I is a course designed to introduce students to the visual arts. Throughout the year students will create artworks using a variety of art materials and techniques such as drawing, painting, printmaking, ceramics, and crafts. This course will provide students with a starting point to explore careers in the visual arts. Students will be required to keep a weekly sketchbook. This course is a prerequisite for Art II.

ART II

051542

Credit: 1

Grades: 10, 11, 12

Prerequisite: Art I

Art II is an advanced level course that will build on the knowledge and skills learned in Art I. Students will continue to create artwork using a variety of art materials and techniques with more emphasis placed on the development of the student's art skills. Students will be required to keep a weekly sketchbook. This course is a prerequisite for Art III.

ART III

051543

Credit: 1

Grades: 10, 11, 12

Prerequisite: Art II

Art III is an advanced level course that will build on the knowledge and skills learned in Art II. Students will continue to create artwork using a variety of art materials and techniques with more emphasis placed on the development of the student's art skills. Students will be required to keep a weekly sketchbook.

CERAMICS I

051591

Credit: 1

Grades: 10, 11, 12

Prerequisite: None

Ceramics I is an introductory course exposing students to a variety of ceramic techniques. The full year follows a Discipline Based Art Education model where students will explore (hands on) the transformation of clay into ceramics through production, history, aesthetics, and criticism. We will also take time out to understand how ceramics incorporates Science, Technology, Engineering, and Math. We will be making a lot of work, and we will have a lot of fun doing it.

CERAMICS II

051592

Credit: 1

Grades: 10, 11, 12

Prerequisite: Ceramics I

Ceramics II is a full year advanced course for serious students who have mastered the content and techniques of Ceramics I. Students will further explore the processes and materials involved in the creation of functional ceramics through the practice of wheel-throwing. The course explores various glazes and glazing techniques. While this course will investigate historical influences, it will primarily focus on contemporary American potters.

CERAMICS III

051593

Credit: 1

Grades: 10, 11, 12

Prerequisite: Ceramics II

Ceramics III is a full-year course and serves as the most advanced level class in the Ceramics Curriculum. Candidates must have satisfactorily completed Ceramics I and II as well as apply for instructor approval. Ceramics III will allow the candidate to explore the medium on a much more personal level, using all previous knowledge and experiences. The course stresses individual artistic growth through exploration and collaboration with the instructor. Wheel-throwing and hand building techniques are revisited and new firing and glazing techniques are introduced. An artist statement, research paper, and an informational plan for post-high school experience are required by year's end. Participation in the end of the year Art Show is also expected.

CRAFTS AND CULTURES I

05165

Credit: 1

Grades: 10, 11, 12

Prerequisite: None

In this course, students will have the opportunity to work with a variety of craft media including ceramics, basketry, mask making, textile arts, and recycling art. Throughout this course students will learn about a variety of cultures and craftspeople who create the crafts that we will be studying. . Crafts and Cultures I is the prerequisite for Crafts and Cultures II.

CRAFTS AND CULTURES II

051652

Credit: 1

Grades: 10, 11, 12

Prerequisite: Crafts and Cultures I

In Crafts and Cultures II, students will have the opportunity to work with a variety of craft media including ceramics, basketry, mask making, textile arts, and recycling. Throughout this course students will learn about a variety of cultures and craftspeople who create the crafts that we will be studying. Crafts and Cultures I is the prerequisite for Crafts and Cultures II.

CRAFTS AND CULTURES III

051653

Credit: 1

Grades: 10, 11, 12

Prerequisite: Crafts and Cultures II

Students in Crafts and Cultures III will have the opportunity to work independently on creating crafts within one medium concentration. Throughout the year students will explore their chosen media through a variety of forms. Students enrolled in this course will develop a portfolio.

BUSINESS AND FINANCE

HONORS INTRODUCTION TO THE SCHOOL OF BUSINESS AND INDUSTRY

12055H

Credit: 2

Grades: 9

Prerequisite: Grade of "B" or above in all core classes (English, Math, Social Studies, Science) completion or enrolled in keyboarding class, personal statement, model behavior records; teacher and/or counselor recommendation

This full year Honors business course designed to prepare students for acceptance into SBI and to introduce students to skills that will prepare them for success in the world of work and higher education. This course provides students with the opportunity to acquire an understanding of the expectations for the student's performance for the duration of their SBI matriculation and help them to quickly learn why SBI students are recognized as SUPERSTARS and why they are expected to perform accordingly. Students will be introduced to the 12 Principles to Business Success: Leadership, Time Management, Communication Skills, Teamwork, Community Involvement, Attitude, Critical Thinking Skills, Business Etiquette, Networking, Interpersonal Skills, Career Awareness & Development, and Navigating Adversity.

**This course will meet every day during the fall and spring semesters.*

HONORS SCHOOL OF BUSINESS AND INDUSTRY I (SBI I)

12055H

Credit: 2

Grades: 10

Prerequisite: GPA – 3.0 (85%) or above, Interview, Written Essay, Approval of Acceptance, Contractual Agreement

This full year Honors course is designed to orient students to the real world of business and industry and to ensure smooth transition from high school to college and/or the world of work. Phase I (SBI I) helps students develop and/or reinforce skills that are fundamental to their academic success as well as the professional and personal development. Students gain meaningful experience and develop lifelong relationships through mentorships, professional business shadowing, and field trips. Students learn business concepts along with the art of public speaking, critical thinking, leadership, and management skills. Students are also exposed to traditional, nontraditional, and unexplored career paths.

**This course will meet every day during the fall and spring semesters.*

HONORS SCHOOL OF BUSINESS AND INDUSTRY II (SBI II)

120532H

Credit: 2

Grades: 11

Prerequisite: GPA – 3.0 (85%) or above, SBI I Honors

This course is a continuation of SBI 1. A major focus is entrepreneurship. The students learn to develop a business plan through teamwork and how to present it to loan officers for consideration for a loan. They are also exposed to financial markets, which will broaden their exposure to a variety of financial and economic topics designed to create awareness to business and finance. Emphasis is also placed on taking SATs and making preparation for acceptance into college. Further emphasis is placed on making the right career choice.

**This course will meet every day during the fall and spring semesters.*

HONORS SCHOOL OF BUSINESS AND INDUSTRY III (SBI III)

120533H

Credit: 2

Grades: 12

Prerequisite: GPA – 3.0 (85%) or above, SBI II Honors

This full year Honors course is a continuation of SBI II where students put the theory learned in the first two courses into action. They experience the joys of operating a student-owned business – a school store, The Cougar Den. Students will learn business practices such as electronic cash register operations, cash handling procedures, customer service skills, and inventory and stocking principles. They will design items, market the items and learn all the principles of operating a retail business. Students develop a thorough understanding of all store operations and learn to function productively within a team. Emphasis is also placed on applying to college and applying for scholarships.

**This course will meet every day during the fall and spring semesters.*

ACCOUNTING I

12104ACCTGI

Credit: 1

Grades: 10, 11, 12

Prerequisite: None

Through hands-on applications and the integration of computer technology, using Microsoft Excel and Automated Accounting, students will learn the basic fundamentals of accounting. They will develop a solid foundation for personal use for individuals and small business record keeping for entry-level accounting positions and for further accounting study. This is an entry-level course designed to provide the career-oriented business student with background in concepts of double-entry bookkeeping with an emphasis on understanding accounting principles and concepts in a sole proprietor and corporate environment.

ACCOUNTING II

Credit: 1

Grades: 11, 12

Prerequisite: Accounting I

Through hands-on applications and the integration of computer technology, using Microsoft Excel and Automated Accounting, students will continue to build upon the concepts learned in Accounting I to include double-entry bookkeeping and accounting principles.

PERSONAL AND BUSINESS FINANCE

12005

Credit: 1

Grades: 10, 11, 12

Prerequisite: None

Students will learn and apply the principles and practices of personal finance. They will discover new ways to maximize their earning potential, develop strategies for managing their money, understand resource and risk management, explore skills for the wise use of credit, gain insight into the different ways of investing money, understand taxes, and explore the ethical issues related to consumer rights and responsibilities. Students will also learn how business and personal finance actually works in the United States and global economies. They will further learn how finances affect entrepreneurs and the importance of understanding financial documents. Real world applications will be incorporated in the course.

BUSINESS ESSENTIALS I

120511

Credit: 1

Grades: 10, 11, 12

Prerequisite: None

This course will improve one's economic awareness through a study of the business-economic environment in which all of us live. Students are introduced to the role of business in the lives of individuals, consumers, workers, and citizens. Information is provided in varied and realistic activities in the following topics: entrepreneurship, economic systems, ethics, business organizations, small business management, global trade, technology, consumerism, financial institutions and services, credit, insurance, savings and investments, personal financial management, government and labor, career planning, and current business news. Students will complete computerized business applications.

BUSINESS ESSENTIALS II

1205111

Credit: 1

Grades: 10, 11, 12

Prerequisite: Business Essentials I

This course is a continuation of Business Essentials I with a more in-depth study of the business-economic environment.

MARKETING

12152

Credit: 1

Grades: 10, 11, 12

Prerequisite: None

This introductory course has been developed to help students demonstrate creativity and business skills in the development of ideas for advertising, marketing, and promotion of products in today's global business environment. If you're interested in advertising, sales, money, sports, entertainment, or hospitality, then students should take Marketing. Students will experience hands-on activities in the exploration of sales, advertising, personal sales, and international marketing. Marketing is one of the largest and most exciting career areas in business today.

SPORTS AND ENTERTAINMENT MARKETING

12163

Credit: 1

Grades: 10, 11, 12

Prerequisite: Marketing

Students will learn and apply the marketing principles and practices using the sports and entertainment industry as the learning vehicle. Students will learn about the big ideas and big businesses involved in marketing some of the world's greatest names in sports and entertainment.

FUNDAMENTALS OF MUSIC**05116****Credit:** 1**Grades:** 10, 11, 12

Prerequisite: None

This course is designed for students who are interested in a general understanding of music. The content covered in this course includes: basic rhythms on the drums, singing basic melodies, basic music theory (notation), and a general study of music history. This course is a prerequisite for only students who wish to take Music Technology, Recording in the Music Industry, Guitar, or Piano.

MUSIC TECHNOLOGY**051491****Credit:** 1**Grades:** 10, 11, 12

Prerequisite: None

This course offers students the opportunity to explore their original musical ideas in an environment rich in computer and music technology resources. Students will learn how to use the computer to interface with state-of-the-art electronic musical instruments. They will be able to access thousands of sounds ranging from ancient flutes and lutes, to traditional pianos and horns, to contemporary guitars and drums, and on to synthesizers and sound effects. Whether creating original arrangements to existing music or composing brand new music, students will learn and apply critical thinking skills in planning, problem solving, and decision making. Working independently or in collaborative teams, they will learn to use the computer as a creative outlet, accessing its power to bring their musical imagination to life.

MUSIC THEORY**051131****Credit:** 1**Grades:** 10, 11, 12

Prerequisite: None

This course is for students who plan on pursuing a career in music. Students will learn: aural ear training, scales, intervals, chord structures, chord progressions, figured base, form, and other necessary Music Theory content.

RECORDING IN THE MUSIC INDUSTRY

05119

Credit: 1

Grades: 10, 11, 12

Prerequisite: None

Although this class is designed for the student considering a career in a musical field; it is also well suited for the student who wishes to be more knowledgeable with the music to which they listen and/or play. Programs that are used include Reasons, Garage Band, Photoshop, Finale, and many more. Students will be exposed to aspects of music theory that include harmony, melody, chord progressions, scales, key signatures, circle of fifths, modes, and ear training. Students will also have an opportunity to learn about today's latest music technology as well as be able to write and record their own music using a computer and keyboard. Some of the topics covered regarding technology will be digital music recording pop song form, music sequencing, song production, CD mastering, and CD artwork. Students will also have the chance to record a final project of their choice and burn it to a CD.

BAND

05105

Credit: 1

Grades: 10, 11, 12

Prerequisite: Approval of Band Director

Band provides students with an opportunity to learn to play instruments or to hone skills already acquired. It also provides students with a number of musical performance opportunities – both within the school and in the community. Over the years, members of the Band have distinguished themselves as being in District and State Bands. It is an excellent opportunity for students seriously interested in making a career in the field of professional music or for those interested in learning to play an instrument.

CHORUS

05110

Credit: 1

Grades: 10, 11, 12

Prerequisite: None

Membership in the chorus provides a rich experience in the uses of the voice in interpreting music in a wide range of periods and styles. Students will have the opportunity to demonstrate the ability to perform choral literature of some difficulty. The goal of the organization is to achieve the highest degree of musical comprehension and artistic performance possible for students of high school age. Members of the chorus are eligible to try-out for Vocal Ensemble (after school), Dauphin County Chorus, and District and Regional Choral festivals.

ORCHESTRA

05104

Credit: 1

Grades: 10, 11, 12

Prerequisite: Approval of Orchestra Director and Chorus

Membership in the Orchestra provides students opportunities to perform inside and outside of the school and also with the Harrisburg All-City Orchestra. The orchestra explores music in a variety of styles from popular to classical and provides an experience rich in diversity and artistic expression. Instruction includes individual, small group, and full ensemble attention. Members work as team players and assume the responsibility of role model for elementary musicians. Students may also become eligible for Dauphin County Orchestra and other regional events. Student musicians will develop higher order critical thinking skills and perceptive listening capabilities.

GUITAR EXPLORATION

05108

Credit: 1

Grades: 10, 11, 12

Prerequisite: None

Using text and song books, students will learn the basics of acoustic guitar playing. During the first half of the course, we will cover guitar playing positions, tuning, basic chords and basic chord progressions, playing easy songs, the 12-bar blues progression, reading musical notation and tabs, and 2-part group playing. During the second half we will cover improvisation, progressively more difficult note reading and songs, more blues patterns and keys, and ensemble playing.

PIANO I

051071

Credit: 1

Grades: 10, 11, 12

Prerequisite: None

Utilizing the Electronic Piano Lab, students will study keyboard fundamentals, musical terms and their applications, chords and progressions, solo, duet and all-class playing, sight-reading, and improvisation. Also incorporated into the course will be the use of computers and synthesizers, which will enhance the fundamental concepts presented. Students will be expected to maintain a portfolio containing journals, written work, computer assignments, and audio/video critiques. Each subsequent course builds on the knowledge attained in the previous course and extends it to a new level of expertise.

PIANO II

051072

Credit: 1

Grades: 10, 11, 12

Prerequisite: Piano I

Utilizing the Electronic Piano Lab, students will study keyboard fundamentals, musical terms and their applications, chords and progressions, solo, duet and all-class playing, sight-reading, and improvisation. Also incorporated into the course will be the use of computers and synthesizers, which will enhance the fundamental concepts presented. Students will be expected to maintain a portfolio containing journals, written work, computer assignments, and audio/video critiques. Each subsequent course builds on the knowledge attained in the previous course and extends it to a new level of expertise.

NAVAL JUNIOR RESERVE OFFICER TRAINING CORPS (NJROTC)

NAVAL SCIENCE I

09101

Credit: 2

Grades: 9, 10, 11, 12

Prerequisite: Navy Grooming & Conduct Standards.

Cadets must wear the military uniform once a week on required days.

Students must dress for and participate in Physical Education (PE) classes once a week. Students must participate in basic drill and military formations.

Naval Science I introduces the historical, political and economic impact of the Navy on the American Nation and outlines the principles of citizenship, leadership, and the basics of the historical documents and organization of our national government and its defense structure. Detailed academic units cover the basics of naval science including leadership, naval ships, civics, sea power, maritime geography, oceanography, seamanship, navigation, naval history, and first aid. Students will be required to participate in physical training. Specific training is provided in basic drill and military formations. Field trips are planned to relate to classroom learning. Emphasis is on self-discipline, responsible citizenship, and leadership development. The credit distribution will be 1.5 credits applied to an elective and 0.5 credits applied to Physical Education upon successful completion of the course.

**This course will meet every day during the fall and spring semesters.*

NAVAL SCIENCE II

09102

Credit: 2

Grades: 10, 11, 12

Prerequisite: Navy Grooming & Conduct Standards.

Cadets must wear the military uniform once a week on required days.

Students must dress for and participate in Physical Education (PE) classes once a week. Students must participate in basic drill and military formations.

Naval Science II emphasizes the historical, political and economic impact of the Navy on the American Nation and the basics of science relevant to the Navy and intends to help Cadets: (a) Establish commendable citizenship standards, high leadership goals, good study habits and a sense of moral responsibility, (b) Learn more about the history, organization and profession of the Navy, (c) Gain a deeper awareness of the vital importance of the world ocean to the continued well-being of the United States and her citizens – economically, politically, militarily and environmentally, (d) Firmly establish a sound appreciation for the various sciences, and (e) introduce the importance of astronomy, communications technology, meteorology, electronics, and logistics to the Navy and naval science. Field trips are planned to relate to classroom learning. Emphasis is on continued leadership development and physical science. The credit distribution will be 1.5 credits applied to an elective and 0.5 credits applied to Physical Education upon successful completion of the course.

**This course will meet every day during the fall and spring semesters.*

NAVAL SCIENCE III

09103

Credit: 2

Grades: 11, 12

Prerequisite: Navy Grooming & Conduct Standards.

Cadets must wear the military uniform once a week on required days.

Students must dress for and participate in Physical Education (PE) classes once a week. Students must participate in basic drill and military formations.

Naval Science III expands understanding of the historical, political and economic impact of the Navy on the American Nation and intends to help Cadets: (a) Deepen knowledge of and appreciation for the organization and profession of the Navy, (b) Gain an understanding of the basic concepts of military justice, international and maritime law, sea power and national security, (c) Introduce practical naval and maritime skills to students, and demonstrate how these skills can be applied in a variety of leadership situations, (d) Examine American and military history (Korea, Vietnam, Gulf War, Islam, Afghanistan, Iraq). Field trips are planned to relate to classroom learning. Emphasis is on continued leadership development, military law, and history. The credit distribution will be 1.5 credits applied to an elective and 0.5 credits applied to Physical Education upon successful completion of the course.

**This course will meet every day during the fall and spring semesters.*

NAVAL SCIENCE IV

09104

Credit: 2

Grades: 12

Prerequisite: Navy Grooming & Conduct Standards.

Cadets must wear the military uniform once a week on required days.

Students must dress for and participate in Physical Education (PE) classes once a week. Students must participate in basic drill and military formations.

Naval Science IV broadens a cadet's understanding of leadership as a key component in a Navy career and its impact on American citizenship: (a) Learn leadership responsibilities through opportunities within the NJROTC unit, (b) Provide professionally guided independent study on leadership and citizenship, (c) Use selected readings in Naval Leadership resources to broaden understanding of the basic theory of leadership, details of responsibilities of leadership, and qualities that outstanding leaders exhibit and organizational skills. Advanced leadership and management theories are discussed and practiced. Field trips are planned to relate to classroom learning. Emphasis is on leadership and college or military preparation and career planning. The credit distribution will be 1.5 credits applied to an elective and 0.5 credits applied to Physical Education upon successful completion of the course.

**This course will meet every day during the fall and spring semesters.*

TECHNOLOGY

COMPUTER APPLICATIONS

10004

Credit: 1

Grades: 9

Prerequisite: None

This course will prepare students to use computers for their careers, school assignments, and at home. Students will learn computer terminology and theory. Students will use PCs that employ the Windows network. Students will learn Windows commands, computer art, and effective Internet search strategies. Students will be given the opportunity to test to become officially Microsoft Office Certified. The goal of this class is not just computer literacy, but also user literacy.

COMPUTER SCIENCE I

10001CSI

Credit: 1

Grades: 10, 11, 12

Prerequisite: None

Students play and experiment with short bits of "computer code" to bring to life the power and limitations of computers. This course provides a general background on computers today including what is a computer, what is hardware, what is software, and what is the inter

COMPUTER SCIENCE II

10152

Credit: 1

Grades: 10, 11, 12

Prerequisite: Computer Science I

This course is a continuation of Computer Science 1. It will introduce the student to several more advanced Computer Science topics, laying a strong foundation for future academic study in the discipline. Students will begin with a comparison between Java - the programming language used in the previous course - and C++, another popular, industry-standard programming language. Students will discuss the fundamental building blocks of Object-Oriented Programming, reviewing what they have already learned and familiarizing themselves with some more advanced programming concepts. The remaining course units will be devoted to various advanced topics, including the Standard Template Library, Exceptions, Recursion, Searching and Sorting, and Template Classes. By the end of the class, students will have a solid understanding of Java and C++ programming, as well as a familiarity with the major issues that programmers routinely address in a professional setting.

COMPUTER SCIENCE III

10201

Credit: 1

Grades: 11, 12

Prerequisite: Computer Science II

The purpose of this course is to introduce students to the design and development of web-based applications. This course will expose students to the fundamentals of the Internet and Web protocols, the different architectures that Web-related applications use, and the programming languages that enable the development of Web applications, placing particular emphasis on JavaScript, HTML, XML, AJAX, and Java Server Pages (JSP). It will also cover security and reliability in the development of web applications via the use of transport encryption and authentication.

COMPUTER SCIENCE IV

10203

Credit: 1

Grades: 12

Prerequisite: Computer Science III

Technology continues to evolve and provide users with increasingly powerful mobile devices. In this course, students will learn how to create a web page content, as well as end-user applications that are compatible between web-enabled and mobile formats. This course will also introduce the student to problem solve the unique design and deployment issues that must be taken into consideration when developing applications for mobile devices.

INFORMATION TECHNOLOGY ESSENTIALS

10101

Credit: 1

Grades: 9

Prerequisite: None

Information Technology (IT) Essentials covers fundamental computer and career skills for entry-level IT jobs. This course includes hands-on learning from PC hardware and software that provide practical experience to prepare students for enterprise networking. In addition to learning the fundamentals of hardware, software, and operating systems, students develop problem solving, critical thinking, collaboration, communication, and negotiation skills, which can help them succeed in the 21st century global workplace.

STEM DESIGN

22999

Credit: 1

Grades: 9, 10

Prerequisite: None

This course is designed to support the development and practice of foundational skills in workplace communication and mathematics that are used in various STEM careers. The activities are designed to strengthen skills in preparation for additional study of STEM-focused programs of study. The skills covered include core mathematics from arithmetic to beginning algebra, workplace communications and professionalism. The topics of the course are presented through workplace scenarios to show learners how these skills apply to their potential careers. In reviewing these core skills students will be better prepared to be successful in post-secondary STEM related technical programs and ultimately in STEM related careers.

BROADCAST TECHNOLOGY

11103

Credit: 1

Grades: 12

Prerequisite:

This course provides students with the skills, knowledge and abilities to use modern computer programs and technology to effectively produce broadcast able programs. As students prepare and produce short programs, they learn the technical aspects of the operation and how to evaluate programming and assess audience reaction and impact they develop their complex and critical thinking skills.

COMPUTER GRAPHICS

10202

Credit: 1

Grades: 10, 11, 12

Prerequisite:

This course provide students with the opportunity to explore the technical aspects of the computer to produce visual imagery and to apply graphic techniques to various fields, such as advertising, TV/ video, and architecture. Typical course topics include modeling, simulation, animation, and image retouching. Additional topics include the ethical implications of modifying media as well as the social communication that happens through these media.

DIGITAL MEDIA DESIGN AND PRODUCTION

10203

Credit: 1

Grades: 11, 12

Prerequisite:

This course teaches students the fundamentals of graphic design and production, as well provide students with the opportunity to apply these principles to printed media, digital presentation media, and interactive media. These will include: concepts on internet research skills, Web 2.0 tools, the global economy, and digital citizenship In addition critical thinking and problem solving, communication, collaboration, and creativity and innovation will be stressed through project and collaboration with other courses. Students will begin to explore reading and writing across multiple modalities.

FOUNDATIONS OF TECHNOLOGY

21001

Credit: 1

Grades: 9

Prerequisite:

This course teaches students to understand and apply technological concepts and processes that are cornerstones for the high school technology program. Group and individual activities engage students in creating ideas, developing innovations, and engineering practical solutions. Technology content, resources and laboratory/classroom activities apply student applications of science, mathematics, and other school subjects in authentic situations. This course focuses on the three dimensions of technology literacy – knowledge, ways of thinking and acting, and capabilities—with the goal of students developing the characteristics of technologically literate citizens. It employer teaching/learning strategies that enable students to explore and deepen their understanding of the “big ideas” regarding technology and makes use of a variety of assessments instruments to reveal the extent of understanding.

HONORS DESIGN ENGINEERING

21006H

Credit: 1

Grades:

Prerequisite:

Course introduces “cutting-edge” design engineering techniques that have revolutionized manufacturing, medicine, theoretical research, and education. Breath-taking new tools in design are introduced to quickly develop new ideas and quickly render them in 3-D images and full-scale objects ready for the factory floor and manufacturing processes.

HONORS ENGINEERING

21002H

Credit: 1

Grades: 11, 12

Prerequisite:

This course will require good mathematics skills and a willingness to think! This is an honors level course that will enhance all your STEM skills. We will start the year with the study of general skills needed for all engineering disciplines and then branch into specific study of civil, electrical, mechanical, and manufacturing, computer, chemical and materials engineering areas. This class will be heavy in algebra and will fully support all the algebra common core standards.

PRINCIPLES OF TECHNOLOGY

10004

Credit: 1

Grades: 9

Prerequisite:

The basics are applied in classes to create a well-rounded proficient computer user. This course will include computer fundamentals in such popular programs as Microsoft and Adobe. In addition, the students will learn valuable 21st century readiness skills. These will include concepts on internet research skills, Web 2.0 tools, the global economy, and digital citizenship. In addition, critical thinking and problem solving, communication, collaboration, and creativity and innovation will be stressed through project and collaboration with other courses.

TECHNOLOGICAL DESIGN

21007

Credit: 1

Grades: 10, 11, 12

Prerequisite: Foundations of Technology, Technology and Society

Technological Design prepares students for capstone Engineering Design course that is used as a bridge course for post-secondary study. In Technological Design, engineering scope, content, and professional practices are presented through practical applications. Students in engineering teams apply technology, science, and mathematics concepts and skills to solve engineering design problems and innovate designs. Students research, develop, test, and analyze engineering designs using criteria such as design effectiveness, public safety, human factors, and ethics. This course is an essential experience for students who are interested in technology, innovation, design, and engineering.

TECHNOLOGY AND SOCIETY

21015

Credit: 1

Grades: 10, 11, 12

Prerequisite: Foundations of Technology

Technology and Society teaches critical thinking skills as they relate to the creation and use of technology. Students are prepared to analyze issues, consider their validity, formulate positions and defend these positions. Technology and Society helps students disentangle the elements of an issue, allowing them to make informed decisions. Through the study of contemporary issues of science and

technology, students are introduced to structured methods for assessing technology and science issues and developing defensible opinions and positions. Technology and Society is different than other Engineering by Design™ courses in that the goal is not to design an artifact or product but to design knowledge and wisdom to inform and then use these to inform their designs of products, systems, and services. Students acquire abilities to study and decide the appropriateness of a recommended technological solution. The technology and Society course prepares all students, whether they intend to be engineers, cosmetologists or parents, to make informed decisions about their individual, community and organization uses of technology.

VIDEO GAME DESIGN I

05252

Credit: 1

Grades: 10, 11, 12

Prerequisite: None

Video Game Design 1 is a challenging course designed to build the foundations of computer science through study of video games and video game design principles. Students will practice the game design process by examining the elements of game play, 2D design and animation, game documentation, and programming basics. Students will have the opportunity to explore and design characters, environment art, and story boards using industry software such as Game Maker, Photoshop, and Scratch. By the end of the course, students will have had the opportunity to take on the roles of game designers, graphic designers, game testers, and creative directors while working in teams to create short animations, non-digital games, and simple 2D video games.

VIDEO GAME DESIGN II

05253

Credit: 1

Grades: 10, 11, 12

Prerequisite: Video Game Design I

The Video Game Design 2 course is a rigorous course designed to facilitate a deeper examination of 3D video game design. Students will work as teams to develop a 3d video game building on the foundations learned in Video Game Design 1. Students will become familiar with popular game design software such as Unity and Blender on their quest to code their perfect video game. Focus will be given to C# programming language, 3D graphic design elements such as lighting and texture, user experience, and virtual reality applications.

SPANISH I**06101****Credit:** 1**Grades:** 9, 10, 11, 12

Prerequisite: None

The course is an introduction to the study of the target language and its culture and may be taken in middle or high school. Students perform the most basic functions of the language and become familiar with some elements of its culture. The emphasis is placed on the development of the four skills of listening, speaking, reading, and writing within a given context extending outside of the classroom setting when possible. The content focuses on the students' lives and experiences and includes an exposure to everyday customs and lifestyles. Grammar is integrated throughout the course and is selected according to the language conventions. A general introduction to the culture, its products (e.g., literature, laws, foods, games), perspectives (e.g. attitudes, values, beliefs), and practices patterns of social interaction is integrated throughout the course. Students acquire some insight into how languages and cultures work by comparing the target language and cultures to their own.

SPANISH II**06102****Credit:** 1**Grades:** 10, 11, 12

Prerequisite: Spanish I

This course provides students with opportunities to continue the development of their listening, speaking, reading, and writing skills. Students will participate in short conversational situations by combining and recombining learned elements of the language orally and in writing. Focus is placed on understanding main ideas in text. Grammatically, Spanish 2 presents all verb tenses in the indicative and subjunctive, additional irregular verbs, the uses of the 'por' and 'para' direct and indirect object pronouns, double negatives, idioms and comparisons. Vocabulary is further developed through conversation and textual readings. Dictation as well as Language lab and videos will be used.

SPANISH III**06103****Credit:** 1**Grades:** 10, 11, 12

Prerequisite: Spanish II

The course provides a review of all grammar and basic selected readings. Additional readings include short stories. Considerable attention is paid to the civilizations of Spain and Latin America and extensive in-class conversation in Spanish. A project is required.

SPANISH IV

06104

Credit: 1

Grades: 11, 12

Prerequisite: Spanish III

Spanish IV courses focus on advancing students' skills and abilities to read, write, speak, and understand the Spanish language so that they can maintain simple conversations with sufficient vocabulary and an acceptable accent, have sufficient comprehension to understand speech spoken at a normal pace, read uncomplicated but authentic prose, and write narratives that indicate a good understanding of grammar and a strong vocabulary.

SPANISH FOR SPANISH SPEAKERS INTRO/ ESPAÑOL PARA HISPANO HABLANTES INTRO

06106

Credit: 1

Grades: 10, 11, 12

Prerequisite: Teacher Recommendation

This course is designed specifically for native/heritage speakers of Spanish who already have some oral language proficiency but lack the knowledge of written language. The purpose of this course is to enable the students whose heritage language is Spanish to develop, maintain, and enhance proficiency in Spanish. This course will emphasize the phonetic and grammatical aspects of the Spanish language in order to build the student's reading and writing skills. The course will allow students to explore the cultures of the Hispanic world, including their own and it will enable students to gain a better understanding of the nature of their own language as well as other languages to be acquired.

This course will be taught entirely in Spanish.

SPANISH FOR SPANISH SPEAKERS I/ ESPAÑOL PARA HISPANO HABLANTES I

061061

Credit: 1

Grades: 10, 11, 12

Prerequisite: Español para Hispano Hablantes Intro y/o recomendación del maestro

Esta clase es diseñada para estudiantes cuales hablan español. Los estudiantes obtendrán un mejor manejo del idioma y aumentaran su proficiencia en escritura y lectura. Los estudiantes también aprenderán acerca de los países, personas, y culturas hispano hablantes através de ensayos y literatura.

El curso se conducirá totalmente en español.

SPANISH FOR SPANISH SPEAKERS II/ ESPAÑOL PARA HISPANO HABLANTES II

061062

Credit: 1

Grades: 10, 11, 12

Prerequisite: Español para Hispano Hablantes I
y/o recomendación del maestro

Esta clase es una continuación del conocimiento que obtuvieron en español para Hispano Hablantes 1. Se continuara enfatizando el uso del español académico. Los estudiantes tendrán que completar proyectos de investigación, escribir ensayos, y leer literatura clásica y moderna. También se continuara estudiando la cultura de España y Latino America. Después de completar este curso, los estudiantes pueden tomar Español V (nivel de universidad).

El curso se conducirá totalmente en español.

AP SPANISH

06112AP

Credit: 1

Grades: 12

Prerequisite:

Designed by the College Board to parallel third-year college-level courses in Spanish Composition and Conversation, AP Spanish Language courses build upon prior knowledge and develop students' ability to understand others and express themselves (in Spanish) accurately, coherently, and fluently in both formal and informal situations. Students will develop a vocabulary large enough to understand literary texts, magazine/newspaper articles, films, and television productions, and so on.

HONORS SPANISH I

06101H

Credit: 1

Grades: 9, 10, 11, 12

Prerequisite:

Designed to introduce students to Spanish language and culture, Spanish I course emphasize basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. Spanish culture is introduced through the art, literature, customs, and history of Spanish-speaking people.

HONORS SPANISH II

06102H

Credit: 1

Grades: 9, 10, 11, 12

Prerequisite: Honors Spanish I

Spanish II courses build upon skills developed in Spanish I, extending students' ability to understand and express themselves in Spanish and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of Spanish-speaking people to deepen their understanding of the culture(s).

HONORS SPANISH III

06103H

Credit: 1

Grades: 9, 10, 11, 12

Prerequisite: Honors Spanish II

Spanish III courses focus on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations.

HONORS SPANISH IV

06104H

Credit: 1

Grades: 10, 11, 12

Prerequisite: Honors Spanish III

Spanish IV courses extend students' facility with the language so that they can understand, initiate, and sustain general conversations on topics beyond basic survival needs. Reading and writing tasks will usually include all normal verb tenses (present, past, and future).

OTHER

WORKPLACE EXPERIENCE (CO-OP)

22998

Credit: 1, 2, 3

Grades: 12

Prerequisite: Approval from Student's Assigned Principal

Seniors who have earned sufficient credits to participate in the Cooperative Education Program may be excused from school to work at a part-time job. Arrangements for participation in this program must be made with the counselor and employer and be approved by the Cooperative Education coordinator and parents. Students will be required to collaborate with the Cooperative Education teacher on the design of a co-operative education training plan that will be aligned to the students' identified career pathway. It is understood that the student must be enrolled in and passing all senior classes necessary for graduation.

