Pittsburg
High School

Pittsburg Independent School District Mission Statement

The mission of Pittsburg Independent School District is to provide all children with a quality academic background that ensures their development intellectually, emotionally, socially and technologically in order to prepare them to thrive in our global world.

The Program of Studies and Course Description Guide is an annual publication developed to assist all students and their parents regarding information critical to academic success in the Pittsburg Independent School District. Academic programs, graduation requirements, and course selections and descriptions are included in this guidebook. Although this is the primary tool for student registration, we strongly encourage you to refer to it throughout the school year as a resource for questions that you may have concerning instructional programs and courses in PISD. Academic counselors, teachers, and principals are also available to answer questions or to explain information.

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Pittsburg High School

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Pittsburg, TX 75686
903-856-3646
http://www.pittsburghighschool.net

2026 – 2027

Administration

Principal ……...…… Rustin Ramsey
Assistant Principal ……..…… Luke MacBeath
Assistant Principal …….…….....Mike Lee
Special Programs Administrator..……..Jessica Ramsey

Guidance Department

Counselor …….. Stacey Stuard
Counselor……..……..……. Angela Loveless

Registrar ……..Priscilla Struggs

PEIMS Coordinator/Grades ……Virginia Pearson

The Pittsburg Independent School district does not discriminate on the basis of race, color, national origin, sex, or disability in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: Mrs. Kristane Moore, Assistant Superintendent, Pittsburg Independent School District, P.O. Box 1189, Pittsburg, TX 75686, 903-856-3628, kmoore@pittsburgisd.net

Texas Education Agency Graduation Toolkit

Graduation Program – *Overview*

Foundation High School Program

A new, more flexible graduation program that allows students to pursue their interests will be in place for all students who enter high school, beginning in the 2014-2015 school year.

The program contains up to four parts:

- A 22-credit foundation program which is the core of the new Texas high school diploma
- Five endorsement* options that allow students to focus on a related series of courses
- A higher performance category called Distinguished Level of Achievement
- Performance Acknowledgments that note outstanding achievement

The Foundation requirements (22 credits) include:

English (4 credits)	• English I • English II • English III • An advanced English course
Mathematics (3 credits)	• Algebra I • Geometry • An advanced math course
Science (3 credits)	• Biology • Integrated Physics & Chemistry or an advanced science course • An advanced science course
Social Studies (3 credits)	• World History or World Geography • U.S. History • U.S. Government (one-half credit) • Economics (one-half credit)
Languages Other Than English (2 credits)	• 2 credits in the same language or • 2 credits from Computer Science I, II, III
Physical Education (1 credit)	**Fine Arts (1 credit)** **Electives (5 credits)**
Speech: Demonstrated proficiency	

Endorsements Total credits with endorsements 26

Enhancements

Additionally, a student may earn the Distinguished Level of Achievement and/or a Performance Acknowledgment for outstanding performance. The Distinguished Level of Achievement must be earned to be admitted to a Texas public university under the Top 10 percent automatic admission law.

Distinguished Level of Achievement

- Foundation Program requirements
- 4 credits in math including Algebra II
- 4 credits in science
- at least 1 endorsement

Performance Acknowledgments

- dual credit course
- bilingualism and biliteracy
- PSAT, ACT's Plan, SAT or ACT
- Advanced Placement or International Baccalaureate exam
- earning a nationally or internationally recognized business or industry certification or license

*A student entering 9th grade must indicate an endorsement he or she plans to follow. A student may change or add an endorsement at any time.

A student may graduate without earning an endorsement if, after his or her sophomore year, the student's parent signs a form permitting the student to omit the endorsement requirement.

BR14-130-02

Texas Education Agency Graduation Toolkit

Distinguished Level of Achievement – *Benefits*

Choices determine options

Most of the very best jobs available now and in the future require education and training beyond a high school diploma. Whether you intend to pursue a high-demand, industry workforce credential from a community or technical college or a traditional four-year degree from a university, the choices made in high school will determine your future options.

To best prepare yourself now for the transition to post-high school education or quality workforce training, choosing and taking the right classes is essential. The Distinguished Level of Achievement will ensure the best preparation for your future.

Why it matters — *Benefits*

The Distinguished Level of Achievement opens a world of educational and employment opportunities for you beyond high school. The Distinguished Level of Achievement will:

- Allow you to compete for Top 10% automatic admissions eligibility at any Texas public university;
- Position you among those first in line for a TEXAS Grant* to help pay for university tuition and fees; and
- Ensure you are a more competitive applicant at the most selective colleges and universities.

*Must be financially qualified

What it means

The Distinguished Level of Achievement requires more math and more science than the Foundation High School Program. The Distinguished Level of Achievement requires:

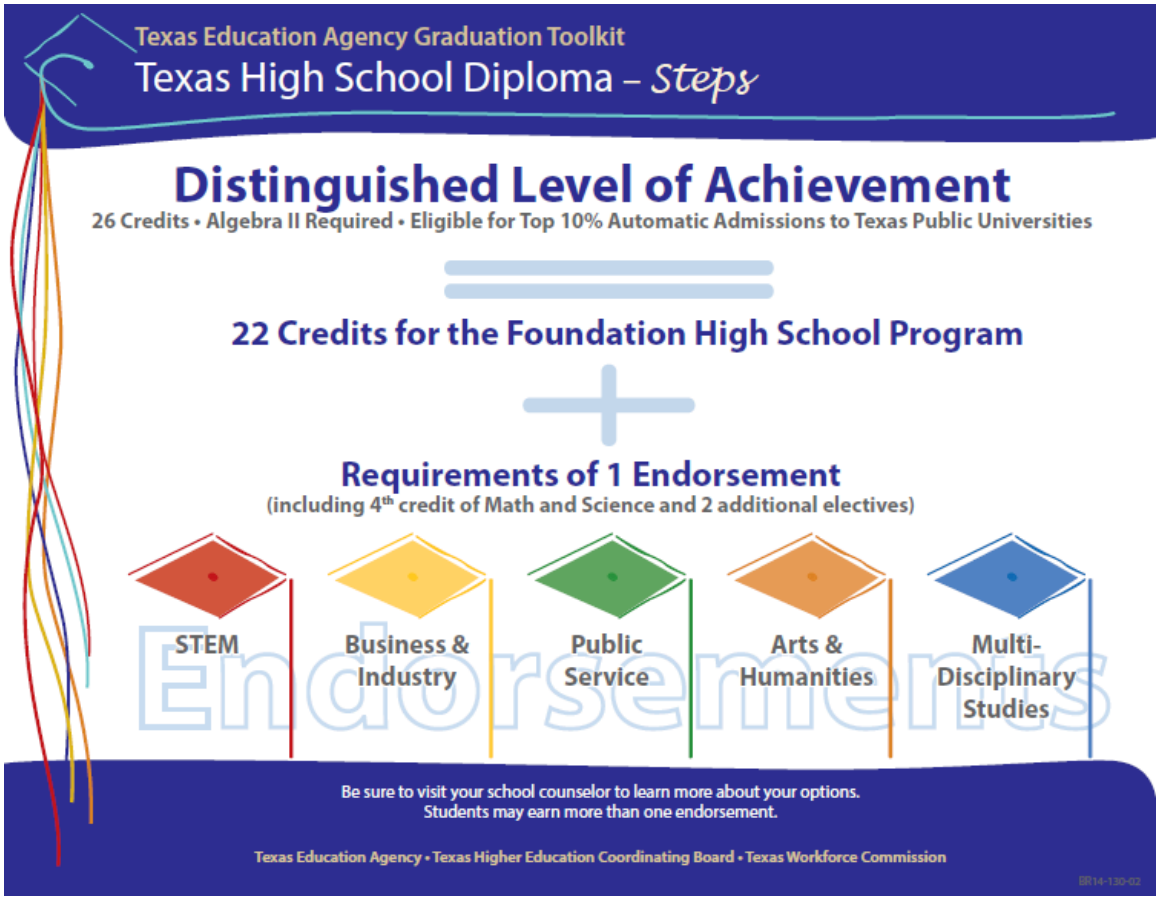
- A total of four credits in math, including Algebra II;
- A total of four credits in science; and
- Successful completion of an endorsement in your area of interest.

Advantages

- Opportunity to earn an endorsement in an area of interest
- More college and university options
- More financial aid options
- Better preparation for college-level coursework at community/technical colleges and universities
- Opportunity for immediate enrollment in classes related to your chosen field of study
- Strong foundation to successfully complete an industry workforce credential or college degree

Texas Education Agency
www.tea.state.tx.us
Texas Higher Education Coordinating Board
www.thecb.state.tx.us
Texas Workforce Commission
www.twc.state.tx.us

BR14-130-02


Texas Education Agency Graduation Toolkit
Texas High School Diploma – Steps
Distinguished Level of Achievement
26 Credits • Algebra II Required • Eligible for Top 10% Automatic Admissions to Texas Public Universities
22 Credits for the Foundation High School Program
Requirements of 1 Endorsement
(including 4th credit of Math and Science and 2 additional electives)
STEM
Business & Industry
Public Service
Arts & Humanities
Multi-Disciplinary Studies
Endorsements
Be sure to visit your school counselor to learn more about your options.
Students may earn more than one endorsement.
Texas Education Agency • Texas Higher Education Coordinating Board • Texas Workforce Commission

Texas Education Agency Graduation Toolkit

Endorsements – *Choices*

Endorsements

Students are able to earn one or more endorsements as part of their graduation requirements. Endorsements consist of a related series of courses that are grouped together by interest or skill set. They provide students with in-depth knowledge of a subject area.

Students must select an endorsement* in the ninth grade. Districts and charters are not required to offer all endorsements. If only one endorsement is offered, it must be multidisciplinary studies.

Students earn an endorsement by completing the curriculum requirements for the endorsement, including 4 credits in both math and science and 2 additional elective credits.

Students can choose from 5 endorsement areas

Science, Technology, Engineering and Mathematics (STEM)

- Career and Technical Education (CTE) courses related to STEM
- Computer Science
- Mathematics
- Science
- Combination of no more than two of the categories listed above

Business and Industry (one of the following or a combination of areas)

- Agriculture, Food and Natural Resources
- Architecture and Construction
- Arts, Audio/Video Technology and Communication
- Business Management and Administration
- Finance
- Hospitality and Tourism
- Information Technology
- Manufacturing
- Marketing
- Technology Applications
- Transportation, Distribution and Logistics
- English electives in:
  - advanced broadcast journalism
  - advanced journalism
  - debate
  - public speaking

Public Services (one of the following)

- Human Services
- Law
- Corrections and Security
- Health Science
- Public Safety
- Education and Training
- Government and Public Administration
- Junior Reserve Officer Training Corps (JROTC)

Arts and Humanities (one of the following)

- 2 levels each in two languages other than English (LOTE)
- 4 levels in the same LOTE
- Courses from one or two areas (music, theater, art, dance) in fine arts
- English electives not included in Business and Industry
- Social Studies
- American Sign Language (ASL)

Multi-Disciplinary Studies (one of the following)

- 4 advanced courses from other endorsement areas
- 4 credits in each foundation subject area, including English IV and chemistry and/or physics
- 4 credits in Advanced Placement, International Baccalaureate, or dual credit selected from English, mathematics, science, social studies, economics, LOTE or fine arts

*Visit your school counselor to learn more about your options.
Students may earn more than one endorsement.

ENDORSEMENTS

BR16-120-02

Advanced Program

What is the Honors program?
Preparing and motivating high school students for Advanced classes and college-level work must begin before they reach eleventh or twelfth grade. The earlier students acquire analytical thinking and communication skills, the more likely they are to succeed in academically challenging courses such as Dual Credit. Therefore, PISD offers an honors program beginning with grade 9. Although honors courses are not prerequisites for Advanced Honors courses, they are highly recommended.

What background is needed for students to succeed in the Honors Program?
Students must be dedicated to complete a more rigorous course of study. The keys to success are maturity, motivation, self-discipline, and academic preparation. In the Honors program, students are encouraged to ask good questions, to acquire deep understandings, to apply comprehensive analytical techniques, and to construct good written and verbal arguments.

PISD encourages students to pursue a course of study in the area of Advanced Honors. Both students and parents are encouraged to consult with teachers, academic counselors, and principals if they need assistance with any concerns. Generally, PISD recommends that students and parents consider the following criteria for enrollment in a Pre Honors course:

- Teacher recommendation
- Score at the Masters Level on corresponding End of Course assessments (and a composition score of 12 or higher if requesting English)

What are the advantages of Honors Course Offerings?
Most competitive colleges and universities consider not only students' grades, but also their academic background evidenced by courses listed on the transcript, letters of recommendation from teachers and counselors, and SAT or ACT scores. Enrollment in the Advanced Honors course work will assist students in their preparation for college entrance exams. The weighted GPA is used when determining class rank.

What are the costs involved in taking a Honors course?
Since the Advanced honors courses are a part of the Pittsburg High curriculum, there is no charge for taking an Advanced Honors course.

What Honors and Advanced Honors courses are available?
PISD provides courses in both Honors and Advanced Honors. The following courses are ***frequently*** offered:

AREA OF STUDY	HONORS COURSES	ADVANCED HONORS COURSES
English	English I Honors English II Honors	Advanced Honors English III (American Literature) Advanced Honors English IV (World Literature)
Fine Arts		Advanced Studio Art Drawing
Foreign Language	Spanish 3 Honors Spanish 4 Honors	
Math	Algebra 1 Honors Algebra II Honors Geometry Honors Pre-calculus Honors	Advanced Honors Calculus
Science	Biology I Honors Chemistry I Honors Physics Honors	Advanced Honors Biology Advanced Honors Chemistry
Social Studies	World Geography Honors World History Honors	Advanced Honors US History Advanced Honors U.S. Government Advanced Honors Economics

Students may drop from an Honors or Advanced Honors class to a regular class with administrative approval after a conference between the student, teacher, parent, and counselor. Students will be encouraged at the end of the first semester to withdraw from the Honors or Advanced Honors class if they fail the semester.

Dual Enrollment Program

What is the Dual Enrollment Program?
The Dual Enrollment Program allows Sophomores, Juniors, and Seniors the opportunity to earn high school credit and college credit at the same time through our agreement with Northeast Texas Community College.

What are the advantages of taking a Dual Credit Course?
Dual Credit courses allow students to shorten the time required to complete an undergraduate degree. It also eliminates the duplication of courses taken in high school and college. The successful completion of dual credit courses allows students and parents to save both time and money when it comes to college.

Dual credit courses are more challenging and stimulating, requiring more time and effort from the students. The advanced curriculum provides a background for students that will sharpen their academic preparedness for college and expand the options available for college-bound students. Students and parents should always check with the college of interest to ensure that the college will accept their dual credit courses as transfer credit.

How is Credit Awarded?
Dual credit courses receive the highest weighted ranking on our 6.0 scale. The students will receive the actual numerical score when it is awarded by the college instructor or a numerical grade equivalency as follows: A – 95 B – 85 C – 75 D – 70

A student may also earn a performance acknowledgment on the student's transcript for outstanding performance in a dual credit course by successfully completing 12 or more hours of dual credit course with a grade of 3.0 (B) or better.

What are the costs involved in taking a Dual Enrollment Course?
Students are responsible for all costs associated with taking college courses. These costs may include tuition, fees, and books required by the college. For more Dual Credit information, see the PHS Dual Credit Handbook.

What are the requirements for taking a Dual Enrollment Course?
Before enrolling in a Dual Credit Course, a student must return their completed Dual Credit Application Packet to the counselor. Some of the requirements in the packet are:

- Complete the NTCC Dual Credit “Application for Admission”
- Classification as a Sophomore, Junior, or Senior
- Obtain qualifying scores on one of the following:
    - SAT scores – 480 on the Evidenced-Based Reading & Writing (EBRW) for both the reading & writing sections and 530 on the mathematics test for the math section
    - ACT scores – 23 composite with 19 or higher on math and/or English
    - TSI scores – 351 on Reading, 5 or better on writing Essay, or 340 on Writing Multiple Choice with 4 on Writing Essay
    - TSIA2 - 945 on ELAR with 5 on the essay
- Have approval of coursework by the counselor or principal BEFORE enrolling

Physical Education Graduation Requirement

Students are required to satisfy a 1 credit graduation requirement for physical education. Students may satisfy the physical education graduation requirements in several ways.

- **By taking a physical education course**
  PE requirements could be fulfilled with courses located under the physical education page in this guide.
- **By taking a physical education equivalent activity**
  For these courses, students receive PE credit for the experience. Athletics, Foundations of Personal Fitness and Adventure/Outdoor Education are the physical education equivalent courses. Athletics may receive up to four credits.
- **By taking a course which counts as a physical education waiver**
  For these courses, students do receive PE credit on their transcripts. Their PE obligation is reduced one-half credit each time they complete a semester's work in the PE waiver activity. Students receive the regular academic credit on their academic record to these physical education waiver courses: Band (1st semester).
- The District shall award state graduation credit in physical education for appropriate private or commercially sponsored physical activity programs conducted either on or off campus, upon approval by the Commissioner of Education. [EIF local]

Gifted/Talented Program

Gifted students perform at or show the potential for performing at a remarkably high level of accomplishment when compared to others of the same age, experience, or environment. Pittsburg ISD gifted students may receive services through Honors and Dual Credit courses.

Special Education

Special education and related services are a part of a free, appropriate public education designed to meet the unique needs of students with disabilities. The mission of special education in PISD is to create a learning environment through a unified educational system that respects and values all students. The primary focus of PISD special education programs is first and foremost the provision of services that will ensure each student's success.

Instruction is designed to help the student most effectively develop those skills and concepts necessary for independent functioning. Emphasis is placed upon determining first the academic and affective strengths and deficits, then prescribing those learning activities which foster the development of those skills and concepts. Because students differ both in the preferred modality of learning and in levels of functioning, a variety of methods, materials, and techniques are utilized, with the Admission, Review, and Dismissal Committee determining which are most beneficial for the individual student's growth in mastery of skills and in acquisition of compensatory behaviors.

Limited English Proficiency

Students who have been identified as limited English proficient may participate in a special language program that is an integral part of the total school program. The program emphasizes the mastery of basic English language skills so students will be able to participate effectively in the regular school program as soon as practical.

Dyslexia Program

The Dyslexia Program offers instruction in a class setting that includes reading, writing, and spelling as appropriate. The major instructional strategies utilize individualized, intensive, and multisensory methods. The program emphasizes the mastery of basic English language skills so students will be able to participate effectively in the regular school program.

Credit by Examination

The District will provide the option for a student in grades 9-12 to earn credit by examination. A student must achieve a score of 70 percent or above on the examination, with prior instruction, in order to receive credit for that course. If such credit is given, the District will enter the examination score on the student's transcript.

Correspondence Courses

Students in grades 9-12 may earn a maximum of two units of credit by correspondence. Credit toward state or local graduation requirements may be granted for correspondence courses only under the following conditions:

- Prior to enrolling in the correspondence course(s), a student must make a written request to the principal or designee for approval to enroll in the course.
- Courses are approved by TEA from Texas state universities.
- The correspondence course includes the state-required TEKS for such a course (19 TAC 74.23). Additional information is available in the Academic Counselor's Office.
- The student earns a grade of 70 or higher in the approved course.

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Automatic Admission to Texas Public Universities

In accordance with Texas Education Code (TEC), 51.803, a student is eligible for automatic admission to a college or university as an undergraduate student if the applicant earned a grade point average in the top 10 percent or the student's high school graduating class, or the top 6 percent for admission to the University of Texas at Austin, and the applicant:

- Earn the distinguished level of achievement under the Foundation High School Program; or
- satisfied ACT's College Readiness Benchmarks on the ACT assessment or earned on the SAT assessment a score of at least 1,500 out of 2,400 or the equivalent.

In accordance with Title 19 Texas Administrative Code (TAC), 5.5 (e) high school rank for students seeking automatic admission to a general academic teaching institution on the basis of rank is determined and reported as follows:

- Class rank shall be based on the end of the 11th grade, middle of the 12th grade, or at high school graduation, whichever is most recent at the application deadline.
- The top 10 percent of a high school class shall not contain more than 10 percent of the total class size.
- The student's rank shall be reported by the applicant's high school or school district as a specific number out of a specific number total class size.
- Class rank shall be determined by the school or school district from which the student graduated or is expected to graduate.

To qualify for automatic admission, an applicant must:

- submit an application before the deadline established by the college or university to which the student seeks admission;
- meet all curriculum requirements for admission established by the college or university to which the student seeks admission; and
- provide a high school transcript or diploma that indicates whether the student has satisfied or is on schedule to satisfy the requirements of the distinguished level of achievement under the Foundation High School Program or the portion of the distinguished level of achievement under the Foundation High School Program that was available to the student.

Grade Level Classification

Changes in grade level classification shall be made prior to the beginning of the fall semester. Students will be classified according to the following criteria:

Freshman	(9th)	-	0 – 5.5 credits earned
Sophomore	(10th)	-	6 – 11.5 credits earned and at least 2nd year in high school
Junior	(11th)	-	12 – 17.5 credits earned and at least 3rd year in high school
Senior	(12th)	-	18 or above credits and at least 4th year in high school

Students transferring into the District will be classified according to the documented number of credits earned from accredited educational institutions.

Promotion standards, as established by the Individual Education Plan (IEP), or grade-level classification for students eligible for special education shall be determined by the ARD committee.

Cum Laude System

Pittsburg High School recognizes at graduation those students with weighted GPA's at or above specific benchmarks. Benchmarks may require occasional adjustments as changes in curriculum dictate. Currently, graduates are recognized as follows:

Valedictorian	Highest weighted GPA
Salutatorian	Second highest weighted GPA
Summa Cum Laude	3.8 or higher weighted GPA
Magna Cum Laude	3.6 to 3.79 weighted GPA
Cum Laude	3.4 to 3.59 weighted GPA

Class Rank

Ranking of students shall be based on the grade point average of all academic coursework earned in grades 9-12 (through the first quarter of the second term of grade 12), except for

- Band
- Theatre production
- Physical education
- Athletics
- Cheer
- Local credit courses
- Credit recovery programs
- Correspondence courses for high school credit only
- Credit by examination
- Summer school
- Courses taken outside the designated District's school day (including dual credit courses taken off the high school campus during evening/night, intercession, and summer sessions)
- Nonaccredited schools, including homeschooling.

Ranking Scale

The District shall assign weights to semester grades earned in eligible courses and shall calculate a weighted numerical grade average in accordance with the following:

Grade	Tier I	Tier II[1]	Tier III[1]
100	4.0	5.0	6.0
99	3.9	4.9	5.9
98	3.8	4.8	5.8
97	3.7	4.7	5.7
96	3.6	4.6	5.6
95	3.5	4.5	5.5
94	3.4	4.4	5.4
93	3.3	4.3	5.3
92	3.2	4.2	5.2
91	3.1	4.1	5.1
90	3.0	4.0	5.0
89	2.9	3.9	4.9
88	2.8	3.8	4.8
87	2.7	3.7	4.7
86	2.6	3.6	4.6
85	2.5	3.5	4.5
84	2.4	3.4	4.4
83	2.3	3.3	4.3
82	2.2	3.2	4.2
81	2.1	3.1	4.1
80	2.0	3.0	4.0
79	1.9	2.9	3.9
78	1.8	2.8	3.8
77	1.7	2.7	3.7
76	1.6	2.6	3.6
75	1.5	2.5	3.5
74	1.4	2.4	3.4
73	1.3	2.3	3.3
72	1.2	2.2	3.2
71	1.1	2.1	3.1
70	1.0	2.0	3.0

[1]Only approved dual credit courses will be included

District Grading Policy:

1. Must require a classroom teacher to assign a grade that reflects the student's relative mastery of an assignment;

2. May not require a classroom teacher to assign a minimum grade for an assignment without regard to the student's quality of work; and

3. May allow a student a reasonable opportunity to make up or redo a class assignment or examination for which the student received a failing grade with the following guidelines: the initial grade must be 69 or below, the student has 3 school days after the failing grade is entered in the gradebook to schedule the redo/retake opportunity with the teacher before or after school, the redo/retake must be completed within seven school days after the failing grade is entered in the grade book, the day the grade is entered in the gradebook is counted as day "zero" followed by day "one", the redo/retake will only address the content and TEKS assessed by the initial assignment, the redo/retake may be in a different format in

order to ensure academic honesty, a student who has an opportunity to attempt or complete an assignment/test in the class time and refuses to do so will not be afforded the redo/retake opportunity, and a student who receives a zero or failing grade on an assignment/test as a result of academic dishonesty will not be afforded the redo/retake opportunity.

Local Graduation Honors

For the purpose of determining honors to be conferred during graduation activities, the District shall calculate class rank in accordance with this policy and administrative regulations by using grades available at the time of calculation at the end of the third quarter of the senior year. The District shall recognize as an honor graduate each student who has earned rank as a top ten percent graduate if the student:

- Has been continuously enrolled in Pittsburg High School as a full-time student for a full school year immediately preceding graduation: and
- Has completed the foundation program with the distinguished level of achievement.

For the purpose of applications to institutions of higher education, the District shall also calculate rank as required by state law. The District's eligibility criteria for local graduation honors shall apply only for local recognitions and shall not restrict class rank for the purpose of automatic admission under state law [see EIC (LEGAL)]

Students who graduate in fewer than four years shall not be considered for valedictory or salutatory honors but shall be given the opportunity to compete for top ten percent. All graduation requirements must be completed prior to the date of the graduation ceremony for an early graduate to be a participant.

Valedictorian and Salutatorian

The valedictorian and salutatorian shall be the eligible students with the highest and second-highest rank, respectively. To be eligible for such recognition, a student must:

1. Have been continuously enrolled in Pittsburg High School as a full-time student for the two complete school years immediately preceding graduation;
2. Be graduating after exactly eight semesters of enrollment in high school; and
3. Have completed the foundation program with the distinguished level of achievement.

In case of a tie in weighted GPAs after calculation to the fourth decimal place, the District shall recognize all students involved in the tie as sharing the honor and title. The student meeting the local eligibility criteria for recognition as the valedictorian shall also be considered the highest-ranking graduate for purposes of receiving the honor graduate certificate from the state of Texas.

To qualify to give the valedictorian or salutatorian speech, a student shall not be engaged in a removal to a DAEP, or expulsion during his/her last two semesters.

Minimum Course Load

All students must be enrolled in 8 courses per semester with the exception of senior release opportunities.

Schedule Changes

Schedule changes are discouraged and will be approved only under the following circumstances:

1. Completion of a scheduled course by alternate means. (Credit by Exam, summer school, correspondence courses, and college credit)
2. Failure of a course prerequisite to a scheduled course.
3. Change in the senior year to a course required for graduation.
4. Removal of a scheduled course from the school schedule.
5. Level changes.
6. There is sufficient space in the class that the student is wishing to enter.

*Credit will not be awarded if the student is absent 10% or more of the days that the course meets each semester or if a student changes a course or enters without having been enrolled in that course in another school.

Honor Roll

Students who earn all A's will be placed on the "A" Honor Roll. Students who earn all A's and B's will be placed on the "A-B" Honor Roll. Students who earn "N" or "U" in conduct are not eligible for the Honor Roll.

NCAA Academic Requirements

NCAA Academic Requirements – NCAA regulations stipulate that all academic "core" courses must be completed during high school for eligibility in Division I or Division II college athletics. Remedial and below-level courses do not qualify as "core" courses. Students attending all four years of high school at PHS will meet the "core" requirements when they graduate under the Recommended Program or the Distinguished Achievement Program. NCAA Division I and Division II college eligibility requirements also include varying ACT/SAT and "core" course requirements. In order to meet NCAA requirements a student must have at least a 70 average each semester in core courses. Athletes need to register with the NCAA during their junior year. Students may register on-line at www.ncaaclearinghouse.com.

NCAA approved core courses are listed below:

English
English I
English II
English III
English IV

Math
Algebra I
Algebra II
Geometry
Pre-Calculus
Calculus
Statistics

LOTE
Spanish 1
Spanish 2
Spanish Culture

Social Studies
US Government
US History
World Geography
World History
Economics
Psychology
Sociology

Natural/Physical Science
Biology
Chemistry
Integrated Physics and Chemistry
Anatomy and Physiology
Physics
Environmental Systems
Scientific Research and Design
Advanced Plant Science

COURSE DESCRIPTIONS

English Language Arts

1121 **English I** Grade: 9 Credit: 1
PEIMS: 03220100 (ENG 1) Class Rank: Tier I

This course emphasizes the study of composition and literature. The skills of critical thinking, listening, reading, writing and speaking are developed through increased knowledge of literary genres with practical application of creating a multi-paragraph essay. A variety of literature selections are used for improvement and comprehension, as well as for models to develop writing skills. (This is an EOC tested subject.)

1130 **English I Honors** Grade: 9 Credit: 1
PEIMS: 03220100-H (ENG 1) Class Rank: Tier 2

English I Honors will be more rigorous than the traditional English I course, and will ask students to think more critically and independently. In this course, we will read and analyze literary works from such authors as Edgar Allen Poe, Ernest Hemingway, Ayn Rand, George Orwell, and Harper Lee. Students will also improve their writing skills, expand their knowledge in language usage, and develop effective speaking and listening skills. This course requires outside reading and independent work. A research paper is required during the second semester. (This is an EOC tested subject.)

1221 **English II** Grade: 10 Credit: 1
PEIMS: 03220200 (ENG 2) Class Rank: Tier 1

In this course critical analysis of literature is undertaken with the practical application of creating multi-paragraph essays responding to the literature. A variety of literary genres are utilized as models for composition, literary interpretations and appreciation. (This is an EOC tested subject.)

1230 **English II Honors** Grade: 10 Credit: 1
PEIMS: 03220200-H (ENG 2) Class Rank: Tier 2

Prerequisite: Successful completion of English I (preferably Honors)

English II Honors will be more rigorous than the traditional English II course, and will require students to think more critically and independently. In this course, we will read and analyze literary works from such authors as Edgar Allen Poe, Khaled Hosseini, Elie Wiesel, Jon Krakauer, and Lorraine Hansberry. Students will also refine their writing skills, demonstrate their proficiency in language usage, and sharpen effective speaking and listening skills. (This is an EOC tested subject.)

1321 **English III** Grade: 11 Credit: 1
PEIMS: 03220300 (ENG 3) Class Rank: Tier 1

This course is an in-depth study of American Literature. Students will write various types of discourses: research, description, narration, evaluation, and analysis. Most writing assignments will be coordinated with the literary study and will be related to practical needs in daily life. Special attention is given to (1) instructional strategies for improving reading comprehension, (2) gathering information for a formal report or research project (3) comprehensive vocabulary study to aid in college entrance exam success and personal enhancement for reading comprehension and writing.

1340 **Advanced American Literature** Grade: 11 Credit: 1
PEIMS: 03220300 (ADV AMERICAN LIT) Class Rank: Tier 3

Prerequisite: Successful completion of English 1 and English II EOC/STAAR
The Advanced American Literature course is designed to engage with challenging texts that force students to think critically and analyze in an in-depth fashion. Students will learn the value of scholarly conversation through colorful discussions regarding the texts being studied. Through the application, analysis, evaluation, and creation of complex ideas that are often abstract and multi-faceted, students are challenged to think and collaborate more critically on the content than in a traditional English class. The Advanced American Literature course will follow the timeline of American history, and may study authors' works such as Douglas Hawthorn, Emerson, Thoreau, Melville, Twain, and Miller. Students in this class will strengthen their writing skills and vocabulary through writing in a variety of modes throughout the course of the school year.
Students are expected to take the SAT or ACT during this school year.

1351 **English III Dual** Grade: 11 Credit: 1
PEIMS: 03220300-D (ENG 3) Class Rank: Tier 3

This course is taken in conjunction with ENGL 1301 (fall semester) and ENGL 1302 (spring semester) at Northeast Texas Community College (NTCC). Students must enroll in the appropriate course and section at NTCC, pay tuition and fees, and purchase required texts. In addition to satisfying all enrollment guidelines at the college, it is also recommended that students have earned all credits for English I and II and have a good attendance and discipline record. Additionally, it is mandatory that students have access to a computer and internet in order to complete and submit assignments. Students must successfully complete the first semester of English III Dual and ENGL 1301 in order to remain in the course for the second semester. The specific course description is dependent upon the requirements set forth by NTCC, and students should consult the college catalog. The course focuses on academic writing and reading and writing about literature. Students should expect to read and write on a regular basis.

1421 **English IV** Grade: 12 Credit: 1
PEIMS: 03220400 (ENG 4) Class Rank: Tier 1

This course is an in-depth study of British Literature. Students will study the evolution of the English language and gain a greater understanding of the history of Great Britain and its effects on literature. Writing is an integral part of the course. Most writing assignments will be coordinated with the literary study and will be related to practical needs for college and the workforce. Students are expected to complete assigned readings that will improve reading comprehension and literary analysis. They will participate in a comprehensive vocabulary study to aid in successful performance on college admissions exams and improve reading comprehension and writing. A research paper is required.

1423 **Independent Study in English** Grade: 11-12 Credit: 1
PEIMS: 03221820 (IND ENG3) Class Rank: Tier 1

Independent studies are granted on the basis of a student's intellectual interests and are intended to encourage independent thought and research. Students approaching a potential study should have a specific proposal in mind, not merely the vague idea that they would like to study. Examination of an area of an idea or concept that relates to English or Literature.

The projects students complete in independent studies are typically related to literature or creative writing, but can be related to any subject included in the faculty, including film or media studies. Other students choose to study this way to prepare themselves for thesis-writing in an honors thesis course. Independent study courses allow students to gain a better understanding of preliminary research, reading and writing. This lays the critical groundwork needed to complete a well-written and well-researched thesis statement.
This course will fulfill the fourth year English graduation requirement.

1440 **Advanced World Literature** Grade: 12 Credit: 1
PEIMS: 03220400 (ADV WORLD LIT) Class Rank: Tier 3

Prerequisite: Successful completion of English I and English II EOC/STAAR
The Advanced World Literature course is designed to engage with challenging texts that force students to think critically and analyze in an in-depth fashion. Students in this class will strengthen their writing skills and vocabulary through writing in a variety of modes throughout the course of the school year. Lastly, students will learn the value of scholarly conversation through the colorful discussions they will have regarding the texts being studied. This course will follow the timeline of literary eras from around the world, and may study works such as Beowulf, Pride and Prejudice, and 1984. Through the application, analysis, evaluation, and creation of complex ideas that are often abstract and multi-faceted, students are challenged to think and collaborate more critically on the content they are learning than in a traditional English class. There will be one research project/essay per semester. Students are required to take on of the following by the end of the school year: ACT,SAT,ASVAB,TSI.

1451 **English IV Dual** Grade: 12 Credit: 1
PEIMS: 03220400-D (ENG 4) Class Rank: Tier 3

This course is taken in conjunction with ENGL 1301 (fall semester) and ENGL 1302 (spring semester) at Northeast Texas Community College (NTCC). Students must enroll in the appropriate course and section at NTCC, pay tuition and fees, and purchase required texts. In addition to satisfying all enrollment guidelines at the college, it is also recommended that students have earned all credits for English I, II, and III; and have a good attendance and discipline record. Additionally, it is mandatory that students have access to a computer and internet in order to complete and submit assignments. Students must successfully complete the first semester of English IV Dual and ENGL 1301 in order to remain in the course for the second semester. The specific course description is dependent upon the requirements set forth by NTCC, and students should consult the college catalog. The course focuses on academic writing and reading and writing about literature. Students should expect to read and write on a regular basis.

1452 **English IV Dual** Grade: 12 Credit: 1
PEIMS: 03220400-D (ENG 4) Class Rank: Tier 3

This course is taken in conjunction with ENGL 2322 (fall semester) and ENGL 2323 (spring semester) at Northeast Texas Community College (NTCC). Students must enroll in the appropriate course and section at NTCC, pay tuition and fees, and purchase required texts. In addition to satisfying all enrollment guidelines at the college, it is also recommended that students have earned all credits for English I, II, and III; and have a good attendance and discipline record. Additionally, it is mandatory that students have access to a computer and internet in order to complete and submit assignments. Students must successfully complete the first semester of English IV Dual and ENGL 2322 in order to remain in the course for the second semester. The specific course description is dependent upon the requirements set forth by NTCC, and students should consult the college catalog. The course focuses on academic writing and reading and writing about British literature. Students should expect to read and write on a regular basis.

1615 **College Prep English** Grade: 12 Credit: 1
PEIMS: CP110100 (CPELA) Class Rank: Tier 1

Recommended Prerequisite: English 1, English 2, English 3

This course is designed to prepare students for college-level reading and writing courses. This course will provide an opportunity for students to investigate academic texts, construct supported interpretations and arguments, and acquire academic habits of thought. Reading instruction will focus on developing critical reading skills for comprehension, interpretation, and analysis. The successful completion of this course can grant the student an exemption to TSI requirements for reading and writing at our partnering institution, NTCC.

1722 **English 1 EOC** Grade: 10 Credit: 1
PEIMS: 03221800 (IND ENG) Class Rank: TBD

This class is specifically designed for the students enrolled in grade 10 who need additional assistance and instruction in the areas of reading and written composition to prepare them to be successful on the next administration of the state mandated STAAR EOC test. Using the data from the student's individual testing history, prescriptive interventions will be provided in an attempt to enhance scores. **Students do not sign up for this class, but will be placed in the class based on the results of the Spring test results.**

1723 **English 2 EOC** Grade: 11 Credit: 1
PEIMS: 03221810 (IND ENG2) Class Rank: TBD

This class is specifically designed for the students enrolled in grade 11 who need additional assistance and instruction in the areas of reading and written composition to prepare them to be successful on the next administration of the state mandated STAAR EOC test. Using the data from the student's individual testing history, prescriptive interventions will be provided in an attempt to enhance scores. **Students do not sign up for this class, but will be placed in the class based on the results of the Spring test results.**

Reading I, II, III Grade: 9-12 Credit: 1
0114 PEIMS: 03270700 (READ1) Class Rank: Tier 1
0214 03270800 (READ2)
0314 03270900 (READ3)

Reading I, II, III offers students instruction in word recognition and comprehension strategies and vocabulary to ensure that high school students have an opportunity to read with competence, confidence, and understanding. Students are given opportunities to locate information in varied sources, to read critically, to evaluate sources, and to draw supportable conclusions. Students learn how various texts are organized and how authors choose language for effect. All of these strategies are applied in texts that cross the subject fields. For high school students whose first language is not English, the students' native language serves as a foundation for English language acquisition and language learning.

Mathematics

2121 **Algebra I** Grade: 9 Credit: 1
PEIMS: 03100500 (ALG 1) Class Rank: Tier 1

This is the initial high school mathematics course and the foundation for all subsequent higher level mathematics and science courses. The course covers the study of equations with one and two variables, polynomials, algebraic fractions, roots, exponents, systems of equations and quadratic problems. (This is an EOC tested subject.)

2130 **Algebra I Honors** Grades: 9 Credit: 1
PEIMS: 03100500-Q (ALG 1) Class Rank: Tier 2

This is the initial high school mathematics course and the foundation for all subsequent higher level mathematics and science courses. The course covers the study of equations with one and two variables, polynomials, algebraic fractions, roots, exponents, systems of equations and quadratic problems. The curriculum and pace are accelerated and more rigorous than the regular course.

2221 **Geometry** Grade: 9 - 11 Credit: 1
PEIMS: 03100700 (GEOM) Class Rank: Tier 1

Prerequisite: Successful completion of Algebra I

This course is the second course in the sequence of high school mathematics. This course provides an introduction to the structure of geometry, basic geometric figures and concepts, properties of angles, perpendicular and parallel lines and planes, congruent triangles and their applications, similar polygons, right triangles, trigonometric functions, circles, areas and volumes, coordinate geometry, plane transformations and mappings. Knowledge of algebra is a must for solving the geometry problems.

2230 **Geometry Honors** Grade: 9-10 Credit: 1
PEIMS: 03100700-Q (GEOM) Class Rank: Tier 2

Prerequisite: Successful completion of Algebra I

This accelerated course is for students involved in distinguished achievement programs as well as for those wishing to prepare for college. The curriculum and pace are accelerated and more rigorous than the regular course. This course provides an introduction to the structure of geometry, basic geometric figures and concepts, and to formal proof, both direct and indirect, properties of angles, perpendicular and parallel lines and planes, congruent triangles and their applications, similar polygons, right triangles, circles, areas and volumes, constructions and loci, coordinate geometry, plane transformations and mappings. Extension of regular geometry includes symbolic logic and trigonometric functions. In addition, emphasis is given to applications that require synthesis and analysis.

8151 **Financial Math** Grades: 10-12 Credit: 1
PEIMS: 13018000 (FINMATH) Class Rank: Tier 1

Prerequisite: Successful completion of Algebra I

Financial Mathematics is a course about personal money management. Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors.

2321 **Algebra II** Grades: 10-12 Credit: 1
PEIMS: 03100600 (ALG 2) Class Rank: Tier 1

Prerequisite: Successful completion of Algebra I and Geometry

This course is the third course in the sequence of high school mathematics and includes systems of equations, linear equations, linear inequalities, and their graphs. Solutions to quadratic equations, radical equations, and rational equations are explored. Students study complex numbers, conic sections, roots and powers, logarithms, sequences, and series. Word problems are a vital part of this course.

2330 **Algebra II Honors** Grades: 10-11 Credit: 1
PEIMS: 03100600-Q (ALG 2) Class Rank: Tier 2

Prerequisite: Successful completion of Algebra I and Geometry

This accelerated course is for students involved in the distinguished achievement programs as well as for those wishing to prepare for college. The curriculum and pace are accelerated and more rigorous than the regular course. This course addresses all of the concepts of regular Algebra II described above. This course is designed to prepare students for the advanced placement tests in Calculus. Students will need a graphing calculator. Many of the topics are extended including matrices, elementary statistics, probabilities, and binomial expansions. Introductions to trigonometric functions are included as well

2341 **Mathematical Models with Applications** Grade: 10-12 Credit: 1
PEIMS: 03102400 (MTHMOD) Class Rank: Tier 1

Prerequisites: Successful completion of Algebra I and Teacher Recommendation

This course is designed for those students that struggled with Algebra I and Geometry and need additional math instruction before taking Algebra II as a senior. This course is to help students continue to build on the K-8 and Algebra I foundations as they expand their understanding through other mathematical experiences. Students use algebraic, graphical, and geometric reasoning to recognize patterns and structure, to model information, and to solve problems from various disciplines. Students use mathematical methods to model and solve real-life applied problems involving money, data, chance, patterns, music, design, and science. Students use mathematical models from algebra, geometry, probability, and statistics and connections among these to solve problems from a wide variety of advanced applications in both mathematical and nonmathematical situations.

2421 **Pre-Calculus** Grade: 11-12 Credit: 1
PEIMS: 03101100 (PRE CALC) Class Rank: Tier 1

Prerequisites: Successful completion of Algebra I, Algebra II and Geometry

This class will be a full year offering that will cover the fundamentals of Trigonometry and Elementary Analysis as well as prepare the student for Calculus. Students who are interested in a science or mathematics college curriculum should take this class.

2423 **Independent Study in Mathematics** Grade: 12 Credit: 1
PEIMS: 03102502 (INSTMTH3) Class Rank: Tier 1

Prerequisite: Algebra II

This course is designed as an alternative fourth-year math graduation requirement. This class will be a full year offering that will cover practical real-world mathematics. Students will use problem-solving strategies, select mathematical tools, and precise mathematical language in multiple representations.

2424 **Statistics** Grades: 11-12 Credit: 1
PEIMS: 13016900 Class Rank: Tier 1

Prerequisite: Algebra 1

In this course, students learn to become critical consumers of real-world statistical data, knowledgeable problem solvers who use logical reasoning, and mathematical thinkers. Students will learn to solve “real world” math problems which will be useful in “real world” situations. Students develop critical skills for success in college and careers, including investigation, research, collaboration, project based learning, and both written and oral communication of their work as they solve problems in many types of applied situations. This course is designed as an alternative fourth-year math graduation requirement.

8153 **Statistics and Business Decision Making** Grades: 11-12 Credit: 1
PEIMS: 13016900 (STATBDM) Class Rank: Tier 1

Prerequisites: Algebra II

This course is an introduction to statistics and the application of statistics to business decision making. Students will use statistics to make business decisions. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid.

2430 **Pre-Calculus Honors** Grades: 11-12 Credit: 1
PEIMS: 03101100-Q (PRE CALC) Class Rank: Tier 2

Prerequisites: Successful completion of Algebra I, Algebra II and Geometry

This accelerated course is for students involved in the gifted and talented or distinguished achievement programs as well as for those wishing to prepare for college. The curriculum and pace are accelerated and more rigorous than the regular course. It is designed to prepare students for the Advanced Placement tests in AP Calculus. Other topics added include derivations, polar equations, greatest integer functions, composition of functions, and trigonometric functions and graphs. Students are encouraged to purchase a TI-83 plus calculator.

2540 **Advanced Calculus** Grade: 11-12 Credit: 1
PEIMS: 03102500 (ISM: ADV CALC) Class Rank: Tier 3

Recommended Prerequisite: Successful completion of Pre-Calculus

The course curriculum is equivalent in content to a one semester college course in single variable calculus. Students analyze a wide variety of problems presented graphically, numerically, analytically, and verbally. Limits, differentiation, and integration are the three main topics explored. The curriculum and pace are accelerated and very rigorous. Students are encouraged to purchase a TI-84 plus calculator.

2615 **College Prep Math** Grade: 12 Credit: 1
PEIMS: CP111200 (CPMAT) Class Rank: Tier 1

Prerequisite: Algebra 1

This course addresses a variety of mathematical topics needed to prepare students for success in college-level mathematics. Mathematics topics include: numeracy with an emphasis on estimation and fluency with large numbers; manipulating and evaluating expressions and formulas; rates, ratios, and proportions; percentages; solving equations; linear equations and inequalities; linear systems; exponential models; data interpretations; functions. Successful completion of this course can grant the student an exemption to TSI requirements for mathematics at our partnering institution, NTCC.

2622 **Algebra 1 EOC** Grade: 10 Credit: 1
PEIMS: 03102500 (INSTMTH) Class Rank: TBD

This class is specifically designed for the students who need additional assistance and instruction in the area of mathematics to prepare them to be successful on the next administration of the state mandated STAAR EOC test. Using the data from the student’s individual testing history, prescriptive interventions will be provided in an attempt to enhance scores. Students do not sign up for this class, but will be placed in the class based on the results of the Spring test results.

Science

3121 **Integrated Physics and Chemistry** Grade: 10-11 Credit: 1
PEIMS: 03060201 (IPC) Class Rank: Tier 1

This is a lab course designed to acquaint the student with a study of physical laws and concepts of Physics and Chemistry. Topics included are light, energy, electricity, machines, chemical properties, and atomic structure.

3221 **Biology** Grade: 9-10 Credit: 1
PEIMS: 03010200 (BIO) Class Rank: Tier 1

This lab-oriented course is designed to acquaint students with the fundamental aspects of the biological sciences. It will include specific topics of: macromolecules, cellular structure and function, cellular reproduction, genetic material and patterns of heredity, biological evolution, taxonomy, viruses, energy transfer in living organisms, ecosystems, homeostasis and organs systems. (This is an EOC tested subject.)

3230 **Biology Honors** Grade: 9-10 Credit: 1
PEIMS: 03010200-Q (BIO) Class Rank: Tier 2

This accelerated course is for students involved in the gifted and talented or distinguished achievement programs as well as those preparing for college. This course will cover the same topics as Biology, but the Honors Biology curriculum topics will be examined with more depth, laboratory investigations and activities play a more prominent role in learning the material, and more time outside of the regular school day will be required of the student to complete assignments and projects. Students enrolling in this class should be willing to go into Advanced Biology. (This is an EOC tested subject.)

3240 **Advanced Biology** Grade: 11-12 Credit: 2 (1 local, 1 state)
PEIMS: 13037220 (SRD: ADV BIO II) Class Rank: Tier 3

Prerequisite: Successful completion of Biology and Chemistry

This course provides an in-depth study of biochemistry, cellular biology, biogenetics, cellular energetics, evolution, plant and animal physiology, ad ecology, along with college level labs to illustrate these concepts. Emphasis will be on preparing students to take the AP Exam at the end of the course. It is recommended that students wishing to take the AP exam also have completed or be enrolled in Anatomy and Physiology. This is a two period class.

3240 **Dual Credit Biology** Grade: 11-12 Credit: 2 (1 local, 1 state)
PEIMS: 13037220 (SRD: ADV BIO II) Class Rank: Tier 3

Prerequisite: Successful completion of Biology and Chemistry

These courses (BIOL 1408 and BIOL 1409) will provide an opportunity for students to receive high school credit and college credit at the same time. Students that enter these courses must meet the enrollment criteria of Northeast Texas Community College and must pay their tuition. The first semester (BIOL 1408) will provide a survey of the following biological principles: chemistry of life, cellular structure, function and reproduction, molecular genetics, patterns of inheritance, and biological evolution. The second semester (BIOL 1409) will provide a survey of the following biological principles: the interdependence of living systems, ecosystems, plant and animal diversity, and anatomical & physiological aspects of organism diversity. These courses are recommended for any student who wishes to pursue a future in a biological related field.

3321 **Chemistry** Grades: 10-12 Credit: 1
PEIMS: 03040000 (CHEM) Class Rank: Tier 1
This course will involve the student in the study of matter and its behavior. The student will actively participate in lab experiments related to atomic structure, chemical reactions, energy changes and the properties of matter, in general. Strong math skills are required.

3330 **Chemistry Honors** Grade: 10-12 Credit: 1
PEIMS: 03040000-Q (CHEM) Class Rank: Tier 2

This accelerated course is for students involved in the gifted and talented or distinguished achievement programs as well as for those wishing to prepare for college. The curriculum and pace are accelerated and more rigorous than the regular course. Chemistry Pre-AP will cover all concepts developed in Chemistry.

3340 Advanced Chemistry Grades: 11-12 Credit: 2 (1 local, 1 state)
PEIMS: 13037210 (SRD: ADV CHEM II) Class Rank: Tier 3

Prerequisite: Successful completion of Chemistry I. Students must have successfully completed or be currently enrolled in Algebra II.

The fall course includes topics in scientific measurements, atomic structure, bonding, stoichiometry, physical and chemical properties, energy, and chemical notation. Selected topics include organic and biochemistry will also be included. Relationship of chemistry to our daily lives is emphasized. The spring course includes the study of electrochemistry, solutions, acids and bases, chemical equilibria, kinetics and nuclear chemistry. This is a two period class.

3340 Dual Credit Chemistry Grades: 11-12 Credit: 2 (1 local, 1 state)
PEIMS: 13037210 (SRD: ADV CHEM II) Class Rank: Tier 3

Prerequisite: Successful completion of Chemistry I. Students must have successfully completed or be currently enrolled in Algebra II.

This course is taken in conjunction with CHEM 1405 (fall semester) and CHEM 1407 (spring semester) at Northeast Texas Community College (NTCC). Students must enroll in the appropriate course and section at NTCC, pay tuition and fees, and purchase required texts. Students must successfully complete the first semester of CHEM 1405 in order to remain in the course for the second semester. The specific course description is dependent upon the requirements set forth by NTCC, and students should consult the college catalog. The CHEM 1405 course includes topics in scientific measurements, atomic structure, bonding, stoichiometry, physical and chemical properties, energy, and chemical notation. Selected topics include organic and biochemistry will also be included. Relationship of chemistry to our daily lives is emphasized. The CHEM 1407 course includes the study of electrochemistry, solutions, acids and bases, chemical equilibria, kinetics and nuclear chemistry. This is a two period class.

3421 Physics Grade: 11-12 Credit: 1
PEIMS: 03050000 (PHYSICS) Class Rank: Tier 1

This course is for students on the recommended or distinguished program. This is an organized, ongoing investigation of our environment. The course includes mechanics and heat, magnetism, electricity, sound, light, the wave nature of matter, atomic structure and spectra, ex-rays, photo-electricity, and special relativity. It emphasizes concepts before computation, and is targeted for both technical and non-technical students.

3430 Physics Honors Grade: 11-12 Credit: 1
PEIMS: 30500000-Q (PHYSICS) Class Rank: Tier 2

Prerequisite: Successful completion of Chemistry and Algebra II.

Physics Pre-AP includes the lecture and laboratory study of force and motion, thermal energy, wave phenomena, kinetic theory, light and optics, and electricity and magnetism. Many labs involve the use of CBL's and computer graphical analysis. This class is recommended for students planning to take any college science.

3521 Environmental Systems Grade: 9-12 Credit: 1
PEIMS: 03020000 (ENVIRSYS) Class Rank: Tier 1

In Environmental Systems, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: biotic and abiotic factors in habitats, ecosystems and biomes, interrelationships among resources and an environmental system, sources and flow of energy through an environmental system, relationships between carrying capacity and changes in populations and ecosystems, and changes in environments.

3522 Scientific Research and Design Grade: 11-12 Credit: 1

PEIMS: 13037200 (SCIRD) Class Rank: Tier 1

This is a course allowing students to explore science while improving fundamental research skills, applying statistical analysis and enhancing oral and visual presentation techniques. Each student develops his/her own independent forensic science research project and learns how to structure, organize, publish, and present the project in one or more formal presentations. Students will focus on forensic science. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes. Using scientific methods, students will collect and analyze evidence through case studies and simulated crime scenes such as fingerprints analysis, ballistics, and blood spatter analysis.

8524 Anatomy and Physiology Grades: 11-12 Credits: 1
PEIMS: 13020600 (ANATPHYS) Class Rank: Tier 2

Prerequisites: Biology and a second science credit. Recommended prerequisite: a course from the Health Science Career Cluster. Students must meet the 40% laboratory and fieldwork requirement. This course satisfies a high school science graduation requirement. This qualifies as the 3rd or higher course in the Health Science Endorsement sequence.

In this course, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

3528 Aquatic Science Grade: 10-12 Credit: 1
PEIMS: 03030000 (AQUA SCI) Class Rank: Tier 1

Prerequisite: one unit of high school biology. Recommended prerequisite: Integrated Physics and Chemistry, Chemistry, or concurrent enrollment in either course. Students study the interactions of biotic and abiotic components in aquatic environments, including natural and human impacts on aquatic systems. Investigations and field work in this course may emphasize fresh water or marine aspects of aquatic science depending primarily upon the natural resources available for study near the school. Students who successfully complete Aquatic Science acquire knowledge about how the properties of water and fluid dynamics affect aquatic ecosystems and acquire knowledge about a variety of aquatic systems. Students who successfully complete Aquatic Science conduct investigations and observations of aquatic environments, work collaboratively with peers, and develop critical-thinking and problem-solving skills.

3622 Biology EOC Grade: 10 Credit: 1
PEIMS: 84800EOC (BIOEOC) Class Rank: TBD

This class is specifically designed for the students enrolled in grade 10 who need additional assistance and instruction in the area of science to prepare them to be successful on the next administration of the state mandated STAAR EOC. Using the data from the student's individual testing history, prescriptive interventions will be provided in an attempt to enhance scores. **Students do not sign up for this class, but will be placed in the class based on the results of the Spring test results.**

Social Studies

4121 World Geography Grade: 9 Credit: 1
PEIMS: 03320100 (W GEO) Class Rank: Tier 1

This course is developed primarily for ninth grade students. The course is intended to provide the student with a basic understanding of name, place, physical, political, and cultural geography. This understanding is essential to the development of higher level social studies courses. This course is designed to help students understand that we live in a global environment. It is beneficial for students to have basic knowledge of the rest of the world in order to understand the problems we face today. Towards the end of the course students will be introduced to Early World History beginning with civilizations through classical Greek and Rome.

4130 **World Geography Honors** Grade: 9 Credit: 1
PEIMS: 03320100-Q (W GEO) Class Rank: Tier 2

This accelerated course is for students involved in the gifted and talented or distinguished achievement programs as well as those preparing for college. The curriculum and pace are accelerated and more rigorous than the regular course. The curriculum in this course is designed after that of the regular World Geography course. Students in this course will use enhanced activities and higher level thinking skills. Students will be required to complete independent study and research.

4221 **World History** Grades: 10 Credit: 1
PEIMS: 03340400 (W HIST) Class Rank: Tier 1

This course includes studies of history and development of a variety of world cultures, past and present. Content selected is to be of sufficient depth to provide a basis for students to compare and analyze various ways of life and cultural patterns, emphasizing diversity and commonality of human experiences and the understanding of how these patterns occurred over time. A study of contemporary world affairs is an essential part of this course.

4240 **World History Honors** Grade: 10 Credit: 1
PEIMS: 03340400 (W HIST HONORS) Class Rank: Tier 2

Recommended Prerequisite: Successful completion of another Honors Social Studies class or a Honors English class

Students will examine the history and impact of major religious and philosophical traditions. The major emphasis is on the study of significant people, events, and issues from the earliest time to the present. Traditional historical points of reference in world history are identified as students analyze important events and issues in western civilizations and in other parts of the world.

The honors course is distinguished from the regular course by additional supplemental reading, interpretation of primary sources, further development of writing skills, research, and classroom discussion.

4321 **United States History** Grade: 11 Credit: 1
PEIMS: 03340100 (US HIST) Class Rank: Tier 1

This course covers significant people, issues, and events. The time span covered is from 1877 to the present. The course presents a traditional coverage of the nation's past, giving special attention to the personalities and processes that have shaped our history. The course provides a balanced treatment of events, trends, people and issues. This treatment enables students to recognize the significance of events and developments in the overall history of the United States. (This is an EOC tested subject.)

4340 **Advanced United States History** Grade: 11 Credit: 1
PEIMS: 03340100 (ADV US HIST) Class Rank: Tier 3

Recommended Prerequisite: Successful completion of another AP/Honors Social Studies class or a Honors English class

Students will study the historic development of American ideals and institutions from the thirteen colonies to the 21st Century. The major topics will include: the 13 colonies, the American Revolution, the Constitution, Civil War, and then 1877 to present. Also, the place of the United States in the global community is traced through U.S. political and economic development with emphasis given to major intellectual and cultural trends and movements.

The advanced course is distinguished from the regular course by additional supplemental reading, interpretation of primary sources, further development of writing skills, research, and classroom discussion. (This is an EOC tested subject.)

4421 **U. S. Government** Grade: 12 Credit: ½
PEIMS: 03330100 (GOVT) Class Rank: Tier 1

This course provides an opportunity to study the structure and function of the American political system, comparative government, civic participation and current events. A thorough study of the United States and Texas Constitutions is provided

4422 **Economics** Grade: 12 Credit: ½
PEIMS: 03310300 (ECO-FE) Class Rank: Tier 1

This course is designed to teach the American free enterprise system, government in the American economic system, and international economics relevant to the United States.

4423 **Personal Financial Literacy and Economics** Grade: 12 Credit: ½
PEIMS: 03380083 (PFL-ECO) Class Rank: Tier 1

This course emphasizes the economic way of thinking, which serves as a framework for the personal financial decision-making opportunities introduced in the course. Students will demonstrate the ability to anticipate and address financial challenges as they occur over their lifetime. Students are introduced to common economic and personal financial planning terms and concepts.

4442 **Advanced U.S. Government and Politics** Grade: 12 Credit: ½
PEIMS: 03330100 (ADV US GOVT) Class Rank: Tier 3

Recommended Prerequisite: Successful completion of another AP/Honors Social Studies class or a Honors English class

This is designed to teach students to think critically about the issues that have confronted and influenced the United States through a process that integrates the examination of factual knowledge, the development and application of analytic skills, and the assessment of primary and secondary sources. This class is the equivalent of an introductory college survey course in Federal/ State and Local Government, and its content spans through Federalism to the present. Students taking advanced courses must be committed to hard work as it is quite challenging and fast paced. College admission boards also recognize this, and they look favorably at students who choose to complete advanced courses. If at any time the course becomes unmanageable you may drop to a regular level at any time. “There are no secrets to success. It is the result of preparation, hard work, and learning from failure."- Colin Powell

4444 **Advanced Economics** Grade: 12 Credit: ½
PEIMS: 03310300 (ADV MAC ECO) Class Rank: Tier 3

Recommended Prerequisite: Successful completion of another AP/Honors Social Studies class or a Honors English class

Economics with emphasis on the Free Enterprise System and its benefits is the culmination of the economic content and concepts studied from Kindergarten through required secondary courses. The focus is on the basic principles concerning production, consumption, and distribution of goods and services (the problem of scarcity) in the United States and a comparison with those in other countries around the world. Students analyze the interaction of supply, demand, and price. Students will investigate the concepts of specialization and international trade, economic growth, key economic measurements, and monetary and fiscal policy. Students will study the roles of the Federal Reserve System and other financial institutions, government, and businesses in a free enterprise system. Types of business ownership and market structures are discussed. The course also incorporates instruction in personal financial literacy. Students apply critical-thinking skills using economic concepts to evaluate the costs and benefits of economic issues.

4450 **U. S. Government Dual** Grade: 12 Credit: ½
PEIMS: 03330100-D (GOVT) Class Rank: Tier 3

This course is taken in conjunction with GOVT 2305 at Northeast Texas Community College (NTCC). Students must enroll in the appropriate course and section at NTCC, pay tuition and fees, and purchase required texts. . The specific course description is dependent upon the requirements set forth by NTCC, and students should consult the college catalog. This course provides an opportunity to study the structure and function of the American political system, comparative government, civic participation and current events.

4451 **Economics Dual** Grade: 12 Credit: ½
PEIMS: 03310300-D (ECO-FE) Class Rank: Tier 3

This course is taken in conjunction with ECON 2301 at Northeast Texas Community College (NTCC). Students must enroll in the appropriate course and section at NTCC, pay tuition and fees, and purchase required texts. . The specific course description is dependent upon the requirements set forth by NTCC, and students should consult the college catalog. This course is designed to teach the American free enterprise system, government in the American economic system, and international economics relevant to the United States.

4521 **Sociology** Grade: 10-12 Credit: ½
PEIMS: 03370100 (SOC) Class Rank: Tier 1

This course is a systematic and scientific student of human behavior, social groups and society. It explores the social world in which we live and investigates the causes of some of America's social problems that we experience. Some of the topics discussed include juvenile crime, homelessness, welfare, families, date rape, illegal drugs, child and spousal abuse, and problems in education, sexual harassment and teenage pregnancy.

4522 **Psychology** Grade: 10-12 Credit: ½
PEIMS: 03350100 (PSYCH) Class Rank: Tier 1

This course will provide the student with an introduction to the science of psychology. Consideration will be given to the development of the personality and fundamental principles of human behavior. Special emphasis will be given to environmental influences, individual differences, and the collection and analysis of data. Other topics included are brain disorders, abnormal psychology, phobias, defense mechanisms, and healthy self-esteem and self-concept.

4528 **Personal Financial Literacy** Grade: 9-12 Credit: ½
PEIMS: 03380082 Class Rank: Tier 1

This class will develop citizens who have the knowledge and skills to make sound, informed financial decisions that will allow them to lead financially secure lifestyles and understand personal financial responsibility. The knowledge gained in this course has far-reaching effects for students personally as well as the economy as a whole. When citizens make wise financial decisions, they gain opportunities to invest in themselves, build businesses, consume goods and services in a responsible way, and secure a future without depending on outside assistance. The economy benefits from the optimal use of resources, increased consumption, and strong local businesses. State and local governments benefit with steady revenue streams and reduced future obligations as our society ages.

4550 **Sociology Dual** Grade: 10 - 12 Credit: ½
PEIMS: 03370100-D (SOC) Class Rank: Tier 2

This course is taken in conjunction with SOCI 1301 at Northeast Texas Community College (NTCC). Students must enroll in the appropriate course and section at NTCC, pay tuition and fees, and purchase required texts. In addition to satisfying all enrollment guidelines at the college students must also have a good attendance and discipline record. This course provides for the analysis within a sociological contest of the emergence of "society" and its "culture" as well as the prevailing social processes. It also focuses on the basic principles of socialization, social class stratification, and emergence of the primary social institutions with in our culture.

Languages Other Than English

5321 **Spanish I** Grade: 9-12 Credit: 1
PEIMS: 03440100 (SPAN1) Class Rank: Tier 1

This course is designed as an introductory course in the language with an emphasis on oral communication. Pronunciation, vocabulary, verbs, and some grammar are stressed. Most situations will be in the simple present tense. The last six weeks will include some past tense situations. Students are encouraged to spend time with

native Spanish speakers in order to enhance the learning experience.

5322 **Spanish II** Grade: 9-12 Credit: 1
PEIMS: 03440200 (SPAN2) Class Rank: Tier 1

Prerequisite: Successful completion of Spanish I.

This course is a continuation of Spanish I with more advanced studies. Emphasis will be on increased vocabulary, extended verb tenses, and more complex sentence structures. Historical and cultural aspects of the Hispanic world will also be covered.

5323 **Special Topics in Language and Culture** Grade: 9-12 Credit: 1
PEIMS: 11410000 (SPECTLC) Class Rank: Tier 1

This course is designed to introduce students to the study of Spanish cultures. Students will gain knowledge to understand the historical development, geographic aspects, and cultural aspects of Spanish countries.

5325 **Spanish III Honors** Grade: 10-12 Credit: 1
PEIMS: 03440300 (SPAN3) Class Rank: Tier 2

Prerequisite: Successful completion of Spanish I and Spanish II

Students will be able to achieve an acceptable level of accuracy when participating in casual conversations. Oral proficiency will be stressed. At this level, the student will begin to comprehend authentic texts of prose and poetry and will begin to write coherent paragraphs. The course includes topics related to complex structures in speaking, reading, and writing, and social studies of Spain, Mexico and Latin American countries. The literature of these countries will be studied. All literature will be written in the Spanish.

5329 **Spanish IV Honors** Grade 11-12 Credit: 1
PEIMS 03440400 (SPAN4) Class Rank: Tier 2

Prerequisite: Successful completion of Spanish 1, Spanish 2, and Spanish 3 Honors

Students will be able to achieve a high level of accuracy when participating in formal and informal conversations. The student will analyze authentic readings including prose and poetry. The student will compose coherent paragraphs, stories and formal documents. The student will continue to develop complex structures in speaking, reading and writing. Cultural studies of Spain, Mexico and Latin American countries will be studied through literature and research. Classes and all readings will be conducted in Spanish.

Fine Arts

6121 **Art I** Grade: 9-12 Credit: 1
PEIMS: 03500100 (ART 1) Class Rank: Tier 1

Art I is a beginning course to provide students with a basic understanding of the Elements of Art, the Principles of Design, and Art History. Learning is achieved through exploring different works of art and artists throughout history, including contemporary work, as well as hands on experiences with drawing, painting, sculpting, and collage. A variety of media is explored at this level. Knowledge and skills are acquired in perception, creative expression, historical and cultural heritage, and critical evaluation.

6122 **Art II Drawing** Grade: 9-12 Credit: 1
PEIMS: 03500500 (ART2DRAW) Class Rank: Tier 1
Prerequisite: Art I

This course focuses on the Principles of Design and Elements of Art as applied to the technical development of drawing. Students explore the use of Principles of Design and Elements of Art while learning portraiture, still-life, observed environment and landscape/interior designs, abstract, and personal projects of the student's choosing. Students review artworks throughout history and incorporate what they learn into their own works.

6123 **Art II Sculpture** Grade: 9-12 Credit: 1
PEIMS: 03501000 (ART2SCLP) Class Rank: Tier 1

Prerequisite: Art I

This course will explore the properties of three-dimensional design in a variety of media. Students will be asked to learn important vocabulary, research the work of other artists, and create specific assignments with individual expression. Art I must be completed prior to enrolling in this course.

6125 **Art III Drawing** Grade: 10 – 12 Credit: 1
PEIMS: 03501300 (ART3DRAW) Class Rank: Tier 1

Prerequisites: Art I and Art II *Drawing*

This course is designed for students who have expressed interest in creating two-dimensional art, and who have completed Art I plus Art II *Drawing*. During this course, students will have opportunities to explore new media, new techniques, and develop their own sense of creative expression. The elements and principles of art and design, effective composition, excellent craftsmanship, and creative problem solving will drive this course. Students will study and research artists and art history, and will synthesize various influences with their own ideas in their original art. Students will participate in art critiques and reviews of their work and the work of others. Lastly, students will have the opportunity to display their work in public places and compete in contests.

6126 **Art III Sculpture** Grade: 10-12 Credit: 1
PEIMS: 03501900 (ART3SCLP) Class Rank: Tier 1

Prerequisites: Art I and Art II *Sculpture*

This course will incorporate the information and skills that were learned in Art II *Sculpture*, while allowing students to become more specialized. Students will have the opportunity to display their work in public places and compete in contests.

6127 **Art 4 Drawing** Grade: 11-12 Credit: 1
PEIMS: 03502300 (ART4DRAW) Class Rank: Tier 1

Prerequisite: Art I, Art II Drawing and Art III Drawing

This course will continue ideas from Art III *Drawing*. Students explore different drawing materials and concepts as well as artworks in history. In Art 4 *Drawing* students develop, clarify, and apply their philosophy of art and art making developed in Art III *Drawing* through in-depth, independent, and advanced explorations with media, techniques, processes, and aesthetics. Exceptional initiative, serious involvement, and commitment are expectations of the Art 4 student. A portfolio evidencing high quality, a broad base of knowledge, and in-depth understanding of personal art forms is developed and refined. Students take part in planning and installing an exhibition of their work.

6142 **Art 4 Sculpture** Grade: 10-12 Credit: 1
PEIMS: 03502800 (ART4SCLP) Class Rank: Tier 1

Prerequisites: Art 1, Art II Sculpture and Art III Sculpture

This course will incorporate the information and skills that were learned in Art II and Art III *Sculpture*, while allowing students to become more specialized. Students will have the opportunity to display their work in public places and compete in contests. Exceptional initiative, serious involvement, and commitment are expectations of the Art 4 student. A portfolio evidencing high quality, a broad base of knowledge, and in-depth understanding of personal art forms is developed and refined. Students take part in planning and installing an exhibition of their work.

6144 **Advanced Art** Grade: 11-12 Credit: 1
PEIMS: 03502300 (ADVART4) Class Rank: Tier 3

Prerequisite: 6121 Art I, Art II, Art III: Teacher Approval

The Advanced Art course is for students who are looking to either pursue art in college or attempt to enter the art professions immediately after high school. Utilizing the skills in pre-requisite art courses (Art 1, 2 and 3), the students will compile a cohesive body of work in both a physical and digital portfolio and present their work in at least one student showcase. Students must research other artists, both historic and contemporary, and make informed decisions with their work in order to explain their intentions to the public. Students are also required to participate in a number of art competitions and exhibitions.
Advanced Art students are encouraged to try new approaches to art making and explore a variety of media. Each student will work towards identifying and expressing their "voice" through the visual arts.

Students may take additional art classes alongside the Advanced Art course.

6221 **Theatre Arts I** Grade: 9-12 Credit: 1
PEIMS: 03250100 (TH1) Class Rank: Tier 1

Theatre Arts I is an introduction to the elements of theatre, including basic acting techniques, technical theatre, interpretation of dramatic literature, and theatre history. Students will explore stage movement, mime, voice and diction, improvisation, and scene presentation. Students will also practice relaxation and preparatory techniques, examine dramatic structure, and develop audience appreciation skills by attending live performances. Students are encouraged to participate in school productions.

6222 **Theatre Arts II** Grade: 10-12 Credit: 1
PEIMS: 03250200 (TH2) Class Rank: Tier 1

Prerequisite: Successful completion of Theater I

This course is a continuation of Theatre Arts I and will emphasize more advanced study of acting, technical theatre, interpretation of dramatic literature, and theatre history. The elements of Theatre Arts I will be reviewed. Students are encouraged to participate in school productions

6231	**Theatre Production I**	**1st Year**	PEIMS: 03250700 (TH1PROD)
6232	**Theatre Production II**	**2nd Year**	PEIMS: 03250800 (TH2PROD)
6233	**Theatre Production III**	**3rd Year**	PEIMS: 03250900 (TH3PROD)
6234	**Theatre Production IV**	**4th Year**	PEIMS: 03251000 (TH4PROD)

Grade: 9-12 Credit: 1 Class Rank: Tier 1

Prerequisite: Audition/Interview

This class will be directly involved in the rehearsal and production of the UIL One Act Play for competition. This class provides advanced preparation in acting, directing, playwriting, and technical production. Rehearsals and performances outside of class time are mandatory.

6241	**Technical Theatre I**	**1st Year**	PEIMS: 03250500 (TH1TECH)
6242	**Technical Theatre II**	**2nd Year**	PEIMS: 03250600 (TH2TECH)
6243	**Technical Theatre III**	**3rd Year**	PEIMS: 03251100 (TH3TECH)
6244	**Technical Theatre IV**	**4th Year**	PEIMS: 03251200 (TH4TECH)

Grade: 9-12 Credit: 1 Class Rank: Tier 1

The fundamentals of scenery and costume construction, as well as the basic design elements involving sound, lighting, publicity and makeup, will be emphasized in this class. Each student will actively participate in the technical production or all theatrical performances during the year.

6321	**Band I**	**1st Year**	PEIMS: 03150100(MUS1BAND)
6322	**Band II**	**2nd Year**	PEIMS: 03150200 (MUS2BAND)
6323	**Band III**	**3rd Year**	PEIMS: 03150300 (MUS3BAND)
6324	**Band IV**	**4th Year**	PEIMS: 03150400 (MUS4BAND)

Grade: 9-12 Credit: 1 Class Rank: Tier 1
Prerequisite: Audition

The marching band performs specialized maneuvers that require memorization of music, physical coordination, and a spirit of cooperation at football half-time. The students develop a high degree of technical ability and musicianship plus good discipline and respect for authority. During the second semester, the total group practices and performs as a concert band. Fall semester of each year will fulfill ½ credit of PE if needed.

6331	**Music I, Instrumental Ensemble 1**	**1st year**	PEIMS: 03151700(MUS1INEN)
6332	**Music II, Instrumental Ensemble 1**	**2nd year**	PEIMS: 03151800(MUS2INEN)
6333	**Music III, Instrumental Ensemble 1**	**3rd year**	PEIMS: 03151900(MUS3INEN)
6334	**Music IV, Instrumental Ensemble 1**	**4th year**	PEIMS: 03152000(MUS4INEN)

Grade: 9-12 Credit 1 Class Rank: Tier 1

Prerequisite: Enrollment in Band class
This class is for advanced band students who are wishing to further their musical abilities in a small group or one-on-one level. Focus for the class is region band auditions and solo and ensemble competition, but also has music fundamental pass offs from various method books. This class will also provide an introduction to music history and music theory.

6441 **Piano I** Grades: 9-12 Credit: 1
PEIMS: 03154200 (MUS1PIA) Class Rank: Tier 1

This is a fundamental piano class for those who have never had piano instruction. Students will learn notes on the staff and on the keyboard as well as intervals of a second, third, fourth, fifth, meter signatures and their meanings, sharps and flats, dynamic markings, and other basic piano playing techniques. Students will also study theory and ear training. At the end of the first semester, students will perform for other students in their class. At the end of the second semester, students will perform in a recital for parents and friends.

6442 **Piano II** Grades: 9-12 Credit: 1
PEIMS: 03154300 (MUS2PIA) Class Rank: Tier 1

Prerequisite: Successful completion of Piano I

This course is designed to develop more advanced piano techniques, music notation, music theory, sight-reading skills, and ear-training. Students in this course will perform at two required recitals and one competition during the year. This course will provide students with positive and educational experiences through learning to play the piano and performing.

6443 **Piano III** Grade: 10-12 Credit: 1
PEIMS: 03154400 (MUS3PIA) Class Rank: Tier 1

This course is a continuation of Piano II.

6444 **Piano IV** Grade: 12 Credit: 1
PEIMS: 03154500 (MUS4PIA) Class Rank: Tier 1

Prerequisite: Successful completion of Piano III

This class will be dedicated to piano literature and style periods. Fundamentals to be learned are the eighth note triplet, triads in root position, 1st inversion, 2nd inversion, two part writing, more major and minor scales and their primary chords. These students will perform in an evening recital at the end of the year.

6500 **Guitar I** Grade: 9-12 Credit: 1
PEIMS: 03154600 (MUS1GTR) Class Rank: Tier 1

This course is designed to provide a musical introduction to playing the guitar. Through in-class instruction, individual practice, and playing assignments, the student will advance in their understanding of music and guitar pedagogy. The daily objective of the course is to foster and promote musical growth through the playing of an instrument by the student. The student will also learn about instrument care and maintenance (i.e. changing strings, guitar upkeep, and proper care of the instrument). With experience, the student will be able to play a variety of chords common to contemporary music, read a “lead sheet” and play single line melodies. The overall objective is to provide the student with the introductory knowledge on the guitar to continue playing after the course has ended.

6501 **Guitar II** Grade: 10-12 Credit: 1
PEIMS: 03154700 (MUS2GTR) Class Rank: Tier 1

This course is designed to offer the intermediate guitarist instruction in playing techniques, reading guitar notation and tab, crafting melodies, playing chords and improvisation. Students will review guitar performance basics. Styles covered will range from blues to basic rock. Students will undertake a specialized study in a genre of their choice. This course will provide students with the opportunity to perform as a group as well as individually.

6502 **Guitar III** Grade: 10-12 Credit: 1
PEIMS: 03154800 (MUS3GTR) Class Rank: Tier 1

This course is designed for students to apply the skills of musicianship through playing the guitar. They will hone playing techniques, music reading, listening skills, and music history through performance. This course is designed for students to continue developing techniques and study guitar literature. Students will undertake a specialized study in a genre of their choice. This course will provide students with the opportunity to perform as a group as well as individually.

6503 **Guitar IV** Grade: 10-12 Credit: 1
PEIMS: 03154900 (MUS4GTR) Class Rank: Tier 1

This course is designed for students to build on fundamentals, focusing on intermediate technique, theory and repertoire, covering complex scales, advanced chords, music reading, and performing challenging classical or contemporary pieces, requiring consistent practice and developing finger dexterity for more expressive playing.

Health and Physical Education

7131 **Physical Ed. I** PEIMS: PES00056 (PE EQ1)
7132 **Physical Ed. II** PEIMS: PES00056 (PE EQ2)

Grade: 9 – 12 Credit: ½ Class Rank: Tier 1

PE teaches basic motor skills and the knowledge, skills and rules basic to appropriate individual, dual and team sports. Students will participate in a variety of sports and lifetime activities related to physical fitness. Students will experience game-like conditions through intramural activities and demonstrate lifetime activities within a fitness class format. Students must dress out in PE clothing in order to obtain credit .

7136 **Lifetime Personal Fitness** Grade: 9-12 Credit: ½
PEIMS: PES00051 (PEFOUND) Class Rank: Tier 1

This course represents a new approach in physical education and the concept of personal fitness. The basic purpose of this course is to motivate students to strive for lifetime personal fitness with an emphasis on the health-related components of physical fitness. The knowledge and skills taught in this course include teaching students about the process of becoming fit as well as achieving some degree of fitness within the class. The concept of wellness, or striving to reach optimal levels of health, is the cornerstone of this course and is exemplified by one of the course objectives-students designing their own personal fitness program.

7221 **Health** Grade: 9-12 Credit: ½

PEIMS: 03810100 (HLTH ED) Class Rank: Tier 1

The students will study good physical and mental health and realize the importance of these issues. Subject areas will include: parts and functions of body systems, senses of the body, physical fitness needs and importance, body hygiene, food and nutrition, mental health, drugs and alcohol, communicable and non-communicable diseases, malfunctions of the body, the immune system of the body, pollution and cancer, CPR, first aid and current health issues.

7222 Advanced Health Grade: 9-12 Credit: ½
PEIMS: 03810200 (ADHLTHED) Class Rank: Tier 1

In this course, students are provided opportunities for researching, discussing, and analyzing health issues. This higher level of involvement provides students with experiences designed to reinforce positive health behaviors. Students are given the opportunity to learn more about technology, how it affects health, and how to use electronic technology to gain health information. The emphasis in this course is less related to learning facts and more related to providing students with the skills necessary to access their own health information and services and become health literate.

7225 Adventure/Outdoor Education Grade: 10-12 Credit: ½
PEIMS: PES00053 (PEAOA) Class Rank: Tier 1

Students enrolled in adventure outdoor education are expected to develop competency in outdoor education activities that provide opportunities for enjoyment and challenge. Emphasis is placed upon student selection of activities that also promote a respect for the environment and that can be enjoyed for a lifetime.

Athletics

All athletic offerings are competitive sports available at various levels. Participants represent the school in competitive events.

Men's Athletics *Grade: 9-12* *Credit: 1* *Class Rank: Tier 1*

7341	**Men's Athletics 9th Grade**	PEIMS: PES00000 (SUBATH1)
7342	**Men's Athletics 10th Grade**	PEIMS: PES00001 (SUBATH2)
7343	**Men's Athletics 11th Grade**	PEIMS: PES00002 (SUBATH3)
7344	**Men's Athletics 12th Grade**	PEIMS: PES00003 (SUBATH4)
7345	**Soccer 10th grade**	PEIMS: PES00001 (SUBATH2)
7346	**Soccer 11th grade**	PEIMS: PES00002 (SUBATH3)
7347	**Soccer 12th grade**	PEIMS: PES00003 (SUBATH4)
7348	**Soccer 9th grade**	PEIMS: PES00000 (SUBATH1)

Women's Athletics *Grade: 9-12* *Credit: 1* *Class Rank: Tier 1*

7441	**Women's Athletics 9th Grade**	PEIMS: PES00000 (SUBATH1)
7442	**Women's Athletics 10th Grade**	PEIMS: PES00001 (SUBA)
7443	**Women's Athletics 11th Grade**	PEIMS: PES00002 (SUBATH3)
7444	**Women's Athletics 12th Grade**	PEIMS: PES00003 (SUBATH4)
7446	**Women's Soccer 9th Grade**	PEIMS: PES00000 (SUBATH1)
7447	**Women's Soccer 10th Grade**	PEIMS: PES00000 (SUBATH2)
7448	**Women's Soccer 11th Grade**	PEIMS: PES00000 (SUBATH3)
7449	**Women's Soccer 12th Grade**	PEIMS: PES00000 (SUBATH4)

Sports offered that do not require an athletic period that students can participate in before or after school: Golf, Tennis, Cross Country, Track, Powerlifting, Wrestling

Career and Technology

Career and Technology (CTE) classes are designed to help students prepare for careers, college, and lifelong learning. Courses are grouped into “Clusters” that represent occupations and industries and the knowledge and skills they require. Within each “Cluster” are “pathways” which help students to choose a more specific career path. Students choose a “Program of Study” or an Endorsement, when they develop their graduation plans. Each program of study (CTE), begins with an introductory or “Principles” course and is followed by courses that build on the skills required for the completion of the selected Program of Study.
Each “Program of Study” is presented in bold and underlined. When you are selecting courses for your schedule, please check to ensure you are selecting courses that follow the Program of Study you have selected. Should students need assistance in choosing a program of study, they should contact their school counselors.

To complete a CTE Program of Study you must complete 3 or more courses in the Program of Study for 4 or more credits. Many of the Programs of Study have courses that include the students taking an Industry-based certification.

Programs of Study:

Beginning school year 2020-21 students will be following a Program of Study instead of an Endorsement in Career and Technical Education (CTE). A Program of study is a series of 3 or more courses for 4 or more credits that align with the labor needs of the area and students take industry-based certifications.

BUSINESS & INDUSTRY

Animal Science:

Level I: Principles of Agriculture, Food and Natural Resources
Level II: Small Animal Management and Equine Science
Level III: Livestock Production
Level IV: Scientific Research and Design

Plant Science:

Level I: Principles of Agriculture, Food and Natural Resources
Level II: Greenhouse Operations
Level III: Horticulture Science, Floral Design
Level IV: Scientific Research and Design

Manufacturing:

Welding:

Level I: Introduction to Welding
Level II: Welding I
Level III: Welding II, Career Prep, Occupational Safety

Entrepreneurship:

Level I: Principles of Business, Marketing, and Finance **AND** Business Information Management I
Level II: Entrepreneurship
Level III: Entrepreneurship II
Level IV: Career Preparation 1, Project Based Research, Statistics & Business Decision Making

Business Management:

Level I: Principles of Business, Marketing, and Finance **AND** Business Information Management I
Level II: Global Business and Human Resource Management
Level III: Business Management

Level IV: Career Preparation I, Statistics & Business Decision Making

Design & Multimedia:

Level I: Principles of Arts, A/V Technology & Communications
Level II: Graphic Design & Illustration I
Level III: Graphic Design & Illustration II/Lab
Level IV: Practicum in Graphic Design and Illustration

PUBLIC SERVICES

Diagnostics & Therapeutics

Level I: Principles of Health Science
Level II: Medical Terminology
Level III: Health Science Theory
Level IV: Anatomy & Physiology **AND/OR** Practicum in Health Science

Teaching and Training:

Level I: Principles of Education & Training
Level II: Human Growth & Development
Level III: Instructional Practices in Education & Training
Level IV: Practicum in Education & Training

BUSINESS & INDUSTRY

Animal Science – Program of Study

8321 Principles of Agriculture, Food, and Natural Resources Grades 9-12 Credit: 1
PEIMS: 13000200 (PRINAFNR) Class Rank: Tier 1

Prerequisite to all courses in the Animal and Plant Science Programs of Study. The purpose of this course is to introduce students to the diverse fields of agriculture. Subjects covered in class may include, but are not limited to: Employability Characteristics, Record Keeping, Animal Systems, Plant Systems, Soil Science, Natural Resources Management, Animal Welfare and Husbandry, FFA Leadership Development Competitions, FFA Career Development Competitions, Global and Local Agriculture, and Mechanics and Construction.

8330 Small Animal Management Grades 10-12 Credit: ½
PEIMS: 13000400 (SMANIMGT) Class Rank: Tier 1

Pittsburg Prerequisite: Principles of Agriculture, Food, and Natural Resources. This course is recommended for students in Grades 10-12. This course will be paired with Equine Science to fulfill the Level 2 coursework in the Animal Science Program of Study. **Offered in odd years: 2024-25, 26-27**

The purpose of this course is to introduce students to the diverse fields of small animal management. Subjects covered in class may include, but are not limited to: Employability Characteristics, Record Keeping, Small Animal Welfare and Husbandry, Small Animal Industry, Small Animal Breeds, Nutrition, Diseases and Pests, Anatomy and Physiology, Taxonomy of Small Animals, Genetics and Reproduction, Judging Contest, Habitat Management, and Environmental Impacts of Small Animals.

8322 Equine Science Grades: 10-12 Credit ½
PEIMS: 13000500 (EQUINSCI) Class Rank: Tier 1

Pittsburg prerequisite: Principles of Agriculture, Food, and Natural Resources. This course will be paired with Small Animal Management to fulfill the Level 2 coursework in the Animal Science Program of Study. **Offered in odd years 2024-25, 26-27**
To be prepared for careers in the field of animal science, students need to enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. Suggested animals which may be included in the course of study include, but are not limited to horses, donkeys, and mules.

8329 Livestock Production Grades 10-12 Credit: 1
PEIMS: 13000300 (LIVEPROD) Class Rank: Tier 1

Pittsburg Prerequisite: Principles of Agriculture, Food, and Natural Resources. **Offered in even years: 2023-2024, 25-26**

Students will learn and demonstrate technical skills relating to the interrelated human, scientific, and technological dimensions of animal systems. Students will also learn to perform technical skills related to livestock production. Animal species to be addressed in their course may include, but are not limited to beef cattle, dairy cattle, swine, sheep, goats, and poultry.

Plant Science - Program of Study

8335 Greenhouse Operation and Production Grades 10-12 Credit: 1
PEIMS: 13002050 (GREOP) Class Rank: Tier 1

Greenhouse Operation and Production is designed to develop an understanding of greenhouse production techniques and practices. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings. **Offered in odd years: 2024-25, 2026-27**

8320 Horticulture Science Grades 10-12 Credit 1
PEIMS: 13002000 (HORTISCI) Class Rank: Tier I

This course offers instruction in all areas of the horticultural industry. Units of study include horticulture science, plant identification, greenhouse management, culture of greenhouse crops, and floral design. Also included are units on landscaping, turf grass management and fruit and vegetable production. Agribusiness units will cover operating a horticultural business, pricing work, advertising, and sales. The students in this class will be working in the greenhouse propagating, growing, and planning and conducting a plant sale. **Offered in even years: 2023-24, 2025-26**

3525 Scientific Research and Design (CTE) Grade: 11-12 Credit: 1
PEIMS: 13037200 (SCIRD) Class Rank: Tier 2

Prerequisite: Biology, Chemistry, Integrated Physics and Chemistry (IPC) or Physics. 40% Lab requirement. This course satisfies a high school science graduation requirement. Students may take this course with different course content for a maximum of three credits.

This course is the final course in both the Animal Science and the Plant Science Programs of Study. The content of each course will be specific to the Program of Study you are working to complete. It is the final course in each of the Programs of Study.

Design and Multimedia – Program of Study

8421 Principles of Arts, A/V Technology, and Communications Grade 9 Credits: 1
PEIMS: 13008200 (PRINAAVTC) Class Rank: Tier 1

This course is an introduction to arts, audio/video technology, and communications careers. Students will build a foundation for courses such as Commercial Photography, Audio/Video Production, Communications, Printing & Imaging Technology and more. Professional communication strategies, safety regulations, problem solving, career possibilities, and employability characteristics for the above listed courses will be discussed. Software used will consist of Adobe Photoshop, Adobe Premiere, Adobe InDesign and other software as needed. This course is both hands-on and lecture.

8423 Graphic Design and Illustration I Grades 10 – 12 Credits: 1
PEIMS: 13008800 (GRAPHDI1) Class Rank: Tier 1

Recommended Pre-requisite: Principles of Arts, Audio/Video Technology, and Communications

CTE instruction provides content aligned with challenging academic standards and relevant technical knowledge and skills for students to further their education and succeed in current or emerging professions
The Arts, Audio/Video Technology, and Communications cluster is focused on careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing knowledge and skills needed for success in the Design and Multimedia program of study, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design.

8413 Graphic Design & Illustration II with Lab Grades: 11-12 Credits 2
PEIMS: 13008910 (GRDLAB2) Class Rank: Tier 2

Prerequisite: Graphic Design and Illustration I.

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing knowledge and skills needed for success in the Design and Multimedia program of study, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design.

8416 Practicum in Graphic Design Grades: 11-12 Credits 2
PEIMS: 13009000 (PRACGRD1) Class Rank: Tier 2

Prerequisites: Graphic Design and Illustration II and Graphic Design and Illustration II Lab.

This course is recommended for students who are participating in the Graphic Design and Multimedia Arts program of study. Class activities will be focused on preparing students to pursue additional experience/education in designing, producing, exhibiting, performing, writing, and

publishing multimedia content, including visual and performing arts and design, journalism, and entertainment services. In addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop a technical understanding of the industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

Entrepreneurship – Program of Study

8121 Principles in Business, Marketing, and Finance Grades: 9-11 Credits: 1
PEIMS: 13011200(PRINBMF) Class Rank: Tier 1

Students gain knowledge of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in business, marketing, and finance. Students are encouraged to join DECA to reinforce skills learned in the classroom.

8131 Business Information Management I Grades 9 – 12 Credits: 1
PEIMS: 13011400 (BUSIM 1) Class Rank: Tier 1
**Required course. Recommended 1st class in the Entrepreneurship Program of Study

In Business Information Management I, students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

8122 Entrepreneurship I Grade: 10-12 Credit: 1
PEIMS: 13034400 (ENTREP) Class Rank: Tier 1

Recommended Prerequisite: Principles of Business, Marketing, & Finance.

Students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students understand the capital required, the return on investment desired, and the potential for profit. Students are encouraged to join DECA to reinforce skills learned in the classroom.

8123 Entrepreneurship II (Certification) Grades 11-12 Credit: 1
PEIMS: N1303423 (ENTREP2) Class Rank: Tier 2

Prerequisite: Entrepreneurship I

This course is an advanced course and builds on previous concepts learned in Entrepreneurship I. Students will focus on business model validation, product development, and marketing that deepens the entrepreneurial mindset. Students will outline strategies and tactics for forming, financing and launching a new venture. Topics to be addressed will include building a management team, identifying and reaching out to customers, developing financial plans, and preparing for and managing rapid growth.

8822 Entrepreneurship Project Based Research Grades 11-12 Credit: 1

PEIMS: 12701500 Class Rank: Tier 2

Prerequisite: Entrepreneurship II

This course builds on previous concepts learned in Entrepreneurship I and II. The course provides students the opportunity to apply classroom learnings and experiences to real-world business problems and opportunities, while expanding their skill set and professional relationships. Students will focus on planning, managing, organizing, directing, and conducting business functions for a real business, the local school based enterprise. Students will connect with a local mentor from the business community to develop ideas. Throughout the year, students will create an original project focused on business management, finance, operations, and marketing then present to experts in the industry.

Business Management – Program of Study

8121 Principles in Business, Marketing, and Finance Grades: 9-11 Credits: 1
PEIMS: 13011200(PRINBMF) Class Rank: Tier 1

Students gain knowledge of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in business, marketing, and finance. Students are encouraged to join DECA to reinforce skills learned in the classroom.

8127 Business Management Grades 10-12 Credits: 1
PEIMS: 13012100 (BUSMGT) Class Rank: Tier 2

Recommended Prerequisite: Principles of Business, Marketing, & Finance

This course is recommended for students who are participating in the Business Management program of study. Business Management is designed to familiarize students with the concepts related to business management as well as the functions of management, including planning, organizing, staffing, leading, and controlling. Students will also demonstrate interpersonal and project-management skills.

8134 Global Business Grades 10-12 Credits: ½
PEIMS: 13011800 (GL BUS) Class Rank: Tier 1

Recommended Prerequisite: Principles of Business, Marketing, & Finance.

This course is recommended for students who are participating in the Business Management program of study. Students analyze global trade theories, international monetary systems, trade policies, politics, and laws relating to global business as well as cultural issues, logistics, and international human resource management.

8135 Human Resource Management Grades 10-12 Credits: ½
PEIMS: 13011900 (HR MANGT) Class Rank: Tier 1

Recommended Prerequisite: Principles of Business, Marketing, & Finance.

This course is recommended for students who are participating in the Business Management program of study. Students learn concepts related to human resource management, including legal requirements, recruitment and employee selection methods, and employee development and evaluation. Students will also become familiar with compensation and benefits programs as well as workplace safety, employee-management relations, and global impacts on human resources.

8952 Career Preparation I Grades:11-12 Credits: 2

PEIMS Code: 12701300 (CAREERP1) Class Rank: Tier 2

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

PUBLIC SERVICES

Diagnostics & Therapeutic Services Program of Study:

8521 Principles of Health Science Grades: 9-10 Credits: 1
PEIMS: 13020200 (PRINHLSC) Class Rank: Tier 1

This is the 1st course in the Healthcare Diagnostics Program of Study sequence.

This course provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry. Students should recognize that quality health care depends on the ability to work well with others. Students are expected to apply the knowledge and skills necessary to pursue a health science career through further education and employment. Professional integrity in the health science industry is dependent on the acceptance of ethical and legal responsibilities. Students are expected to employ their ethical and legal responsibilities and limitations and understand the implications of their actions.

8526 Medical Terminology Grade: 10-12 Credit: 1
PEIMS: 13020300 (MEDTERM) Class Rank: Tier 1

This course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, combining forms, and singular and plural forms, plus medical abbreviations and acronyms. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy, and physiology, and pathophysiology.

8523 Health Science Theory (CPR cert) Grades: 10-12 Credits: 1
PEIMS: 13020400(HLTHSCI) Class Rank: Tier 1

Prerequisites: Biology. Recommended: Principles of Health Science.

This course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will have hands-on experiences for continued knowledge and skill development. The course may be taught by different methodologies such as clinical rotation and career preparation learning. The health science industry is comprised of diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Student should identify the employment opportunities, technology, and safety requirements of each system. Students are expected to employ their ethical and legal responsibilities, recognize limitations, and understand the implications of their actions.

8540 * Practicum in Health Science (Cert. PCT and EKG) Grades 11-12 Credit 2
PEIMS: 13020500 (PRACHLS1) Class Rank: Tier 2

Prerequisites: Health Science Theory, and Biology.

In this course, students will focus on obtaining a Patient Care Technician and EKG Technician certifications. Students are expected to work both independently and collaboratively to earn these certifications. All students are required to test for certification. There will be hands-on labs as well as computer driven curriculum. The school pays for the first certification attempt. The student is responsible for re-testing if needed.

8524 * Anatomy and Physiology - see pg 26

Education and Training Program of Study:

8238 Principles of Education and Training Grades 9-10 Credits: 1
PEIMS: 13014200 (PRINEDTR) Class Rank: Tier 1

Principles of Education and Training is designed to introduce learners to the various careers available within the Education and Training Career Cluster. Students use self-knowledge as well as educational and career information to analyze various careers within the Education and Training Career Cluster. Students will develop a graduation plan that leads to a specific career choice in the student's interest area.

8224 Human Growth and Development Grades 10-12 Credits: 1
PEIMS 13024700 ((HUGRDEV) Class Rank: Tier 1

Human Growth and Development is an examination of human development across the lifespan with emphasis on research, theoretical perspectives, and common physical, cognitive, emotional, and social developmental milestones. The course covers material that is generally taught in a postsecondary, one-semester introductory course in developmental psychology or human development.

8239 *Instructional Practices I Grades 11-12 Credits: 2
PEIMS: 13014400 (INPRAC) Class Rank: Tier 2

Instructional Practices is a field-based (practicum) internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence education and exemplary educators or trainers in direct instructional roles with elementary-, middle school-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel.

8440 Practicum in Education and Training Grade 12 Credits:2
13014500 (PRACEDT 1) Class Rank: Tier 2

Practicum in Education and Training is a field-based practicum that provides students background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence education and exemplary educators in direct instructional roles with elementary-, middle school-, and high

school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and complete other responsibilities of classroom teachers, trainers, paraprofessionals, or other educational personnel.

MANUFACTURING

Welding Program of Study:

8339 Introduction to Welding Grades 10-12 Credits: 1
PEIMS: 13032250 (INTRWELD) Class Rank: Tier 1

Recommended prerequisite or co-requisite: Algebra I

This course provides an introduction to welding technology with an emphasis on basic welding laboratory principles and operating procedures and is the 1st course in the welding endorsement sequence. Topics include: industrial safety and health practices, hand-tool and power machine use, measurement, laboratory operating procedures, welding power sources, welding career potentials, and introduction to welding codes and standards. Introduction to Welding provides knowledge, skills, and technologies required for employment in welding industries. Students develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success.

8324 *Welding I (Cert) Grades 10-12 Credits 2
PEIMS: 13032300 (WELD1) Class Rank: Tier 1

Recommended prerequisites: Algebra I, Introduction to Welding, Principles of Manufacturing, or Introduction of Precision Metal Manufacturing.

Welding I provides the knowledge, skills, and technologies required for employment in metal technology systems. Students will develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations, and the development of workplace skills prepare students for future success.

8400 Occupational Safety and Environmental Technology Grades 10-12 Credits: 1
PEIMS: N1303680 Class Rank: Tier 1

Recommended prerequisite: Introduction to Welding

Occupational Safety & Environmental Technology (OSET) I, students will investigate the field of Occupational Safety and Health Administration and Environmental Technology, which is charged with the tasks of ensuring that business and industry provide a safe workplace, free from hazards and bringing about a reduction in the occurrence of job related injuries and fatalities. Students will use safety resources and discover procedures for collaborating with business and industry regarding ways to increase employee safety and health, reduce workers' compensation insurance costs and medical expenses, decrease payout for return-to-work programs, reduce faulty products, and lower costs for job accommodations for injured workers.

8314 Welding II Grades 11-12 Credits 2

PEIMS: 13032400 (WELD2) Class Rank: Tier 2

Pre-requisites: Welding I, Recommended pre-requisites: Algebra I or Geometry

Welding II builds on the knowledge and skills developed in Welding I. Students will develop advanced welding concepts and skills as related to personal and career development. Students will integrate academic and technical knowledge and skills to a variety of settings and problems.

Robotics Program of Study:

8821 Principles of Applied Engineering Grades 9-12 Credits: 1
PEIMS: 13036200 (PRAPPENG) Class Rank: Tier 1

Principles of Applied Engineering provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will understand the various fields of engineering and will be able to make informed career decisions. Further, students will have worked on a design team to develop a product or system. Students will use multiple software applications to prepare and present course assignments.

8824 Robotics I Grades 10-12 Credits: 1
PEIMS: 13037000 (ROBOTIC1) Class Rank: Tier 1

In Robotics I, students will transfer academic skills to component designs in a project-based environment through implementation of the design process. Students will build prototypes or use simulation software to test their designs. Additionally, students will explore career opportunities, employer expectations, and educational needs in the robotic and automation industry.

8818 Engineering Design & Presentation Grades 10-12 Credits: 1
PEIMS: 13036500 (ENGDSPR1) Class Rank: Tier 1

Engineering Design and Presentation I is a continuation of knowledge and skills learned in Principles of Applied Engineering. Students enrolled in this course will demonstrate knowledge and skills of the design process as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects. Through implementation of the design process, students will transfer advanced academic skills to component designs. Additionally, students explore career opportunities in engineering, technology, and drafting and what is required to gain and maintain employment in these areas.

8817 Robotics II Grades 10-12 Credits: 1
PEIMS: 13037050 (ROBOTIC2) Class Rank: Tier 2

In Robotics II, students will explore artificial intelligence and programming in the robotic and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes and use software to test their designs.

Other CTE Courses

Agriculture Elective Courses:

8331 Wildlife, Fisheries, and Ecology Management Grades 10-12 Credit 1
PEIMS: 13001500 (WFECGT) Grade Rank: Tier 1

This course examines the management of game and non-game wildlife species, fish and aqua crops and their ecological needs as related to current agricultural practices. To prepare for careers in natural resources systems students must attain academic skills and knowledge, acquire technical knowledge and skills related to natural resources, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectation. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

Arts Audio/Video Technology & Communications Elective Courses:

8422 Commercial Photography Grades: 10-12 Credits: 1
PEIMS: 13009100 Class Rank: Tier 1

Commercial photography is only one of the many disciplines of professional photography. This course develops students' skills and knowledge in commercial photography projects. Students will also develop the knowledge and skills necessary to analyze customer needs and preferences, apply the principles of art to photographs, and develop photographs using a variety of production processes. The most important thing you can bring away from this course is a new sense of vision. Your goals will be to further your appreciation of light, discover meaning in images rather than words, and learn how to make images important and powerful in their own right.

8721 Professional Communication Grades: 9-12 Credits: 1
PEIMS: 13009900 Class Rank: Tier 1

Professional Communications blends written, oral, and graphic communication in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research.

B**usiness, Marketing & Finance Electives:**

8128 Financial Mathematics Grades: 10 - 12 Credits: 1
PEIMS: 13018000 Class Rank: Tier 1

Prerequisite: Algebra 1

Financial Mathematics is a course about personal money management. Students will apply critical thinking skills to analyze personal financial decisions based on current and projected economic factors. Note: This course satisfies a math credit requirement for students on the Foundation High School Program.

Education Program of Study Electives:

8722 Lifetime Nutrition and Wellness Grades 9-12 Credits: .5
PEIMS: 13024500 (Lifetime Nutrit) Class Rank: Tier 1

This class is a laboratory class that allows students to use principles of lifetime and wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality and tourism, education and training, human services, and health sciences. Students will demonstrate professional standards/employability skills as required by business and industry. Students will learn the role of nutrients in the body, principles of digestion and metabolism, and gain knowledge in nutritionally balanced diets. Students will learn safety and sanitation practices and demonstrate food management principles.

8723 Interpersonal Studies Grades 9-12 Credits: .5
PEIMS: 130274400 (Intr Pers Stud) Class Rank: Tier 1

This class examines how the relationships between individuals and among family members significantly affect the quality of life. Students use knowledge and skills in family studies and human development to enhance personal development, foster quality relationships, promote wellness of family members, manage multiple adult roles, and pursue careers related to counseling and mental health services.

Electives

8996 Computer Science I Grade: 9-12 Credit: 1
PEIMS: 03580200 Class Rank: Tier I

Prerequisite: Algebra 1 Offered in even years: 2023-2024, 2025-2026

Computer Science I will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts.

8992 Computer Science II Grade: 10-12 Credit: 1
PEIMS: 03580300 Class Rank: Tier I

Prerequisite: Algebra 1 and Computer Science 1 Offered in odd years: 2022-2023, 2024-2025

Computer Science II will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of computer science through the study of technology operations, systems, and concepts.

8993 Sports Medicine I Grade: 9-10 Credit: 1
PEIMS: N1150040 Class Rank: Tier I

Sports Medicine I course allows high school students interested in sports medicine health care professions to gain the introductory knowledge and concepts of the sports medicine and athletic training professions. Students will explore the concepts such as sports injury, athletic healthcare team, sports injury law, sports injury prevention, sports psychology, nutrition, first aid, cardiopulmonary resuscitation (CPR), automated external defibrillator (AED), and special medical concerns of the adolescent athlete.

9850 Dual Credit Lab Grade: 10-12 Credit: ½
PEIMS: varies upon dual credit course taken Class Rank: Tier 2

Dual credit is an opportunity for high school students to earn high school and college credit simultaneously. Students demonstrating college readiness through a college placement exam can earn college and high school credits in the same course by attending classes at their high school, The dual lab setting at PHS is one in which students are monitored as they work on an online college course. The assigned monitor helps to guide students through the process of their online course and offers assistance as issues arise. The majority of the online coursework is accomplished outside of the dual lab class period. The college course instructor is online only. The course syllabus, assignments, grades, course expectations, and deadlines are all determined by the respective NTCC course instructor.

9828 Credit Recovery Grade: 9-12 Class Rank: None

Students are placed in this course in order to make up core credits lost due to grades, lack of attendance, etc. Coursework is completed on the computer. Participation grades are given each six weeks. Credit is awarded for the actual course(s) that the student successfully completes.

9831 Principles of Law, Public Safety, Corrections, & Security Grade: 9-12 Credit: ½ (Local)
PEIMS: 8490LPCS (PRINLPCS) Class Rank: None

This course introduces students to professions in law enforcement, security, and correction. Students will examine the roles and responsibilities of police, courts, corrections, and private security. This course provides students with an overview of skills necessary for careers in law enforcement, security, and corrections.

9890 Office Assistant Grade: 11-12 Credit: 1 (Local)
PEIMS: 85000OFF (OFF ASSIST) Class Rank: None

Office Assistants must apply using the application found in the Appendix of the Planning Guide. Selected applicants will be interviewed for the positions. Only those selected will be allowed to be office assistants

9700 Senior Release 1 Grade: 12 Credit: None
9701 Senior Release 2 Grade: 12 Credit: None

Seniors who have maintained good standing in the areas of attendance, credits, state assessments, grades and discipline may have one or two release periods, either in the morning or afternoon.

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