

**REYNOLDS JR-SR
HIGH SCHOOL
PROGRAM
OF
STUDIES**

2022-2023

Dear Parent/Guardian:

Certain minimum standards established by the Commonwealth of Pennsylvania and the Reynolds School Board are outlined in the attached program of studies. The Reynolds School Board has adopted minimum graduation requirements to conform to Commonwealth curriculum guidelines. Election beyond these minimums is at the discretion of the student acting in cooperation with you and school personnel.

Since Reynolds High School is a four-year high school, the credits for graduation are accumulated in grades 9 through 12. In addition, the policy has been established that all students will carry a minimum of 6.5 credits each year.

The selection of courses should be given serious consideration and should be carefully planned. Students will not be permitted to add full year courses after the fifth day of school. Semester courses may not be added after the fifth day of each term. Students dropping a class before these days will receive a "W" withdrawal. Dropping a class after the fifth day of class will result in a failing grade being assigned for that course.

It should be understood by both parent and student that a schedule will be generated from these course selections and requests for schedule changes reflecting a change in academic or career goals may require a parent conference.

Advanced Placement and Pre-Advanced Placement courses are offered in Calculus, Chemistry, English, Biology and Physics, to eligible students. The purpose of the AP course is to prepare students to successfully complete an Advanced Placement examination and thus earn advanced college credit. Students who take the AP courses must take the AP exam at district expense.

The counselors at the high school are available to help anyone wanting assistance in planning the educational program for his/her son or daughter. Parents who wish to discuss educational plans or related matters with school guidance personnel are invited to schedule an appointment by calling (724) 646-5700.

Scott L. Shearer
High School Principal

SS/jw

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PROMOTION POLICY

Students in grades seven and eight will be promoted to the next grade if they pass all full-time subjects for the year. The full-time subjects are listed as follows: English, Reading, mathematics, social studies and science. A student who fails no more than two full-time subjects, however, may be assigned to the next higher grade if that student successfully repeats the failed course(s) in an approved summer program. A student who fails three or more full-time subjects will be retained in their current grade unless granted special approval by the administration to enroll in an approved summer program. This approval shall not be granted unless special conditions exist which have adversely affected the student's achievement.

A student who fails two or more subjects in the same grade for two consecutive years may be administratively assigned to the next higher grade at the discretion of the principal in consultation with other appropriate administrators.

To be assigned to a ninth grade homeroom, a student must have passed the following five classes:

English, Reading, Social Studies, Science and Mathematics.

To be assigned to a tenth grade homeroom, a student must have earned a total of 6.5 credits.

To be assigned to an 11th grade homeroom, a student must have earned a total of 13 credits.

To be assigned to a 12th grade homeroom, a student must have earned a total of 19.5 credits.

ACADEMIC ELIGIBILITY

The Reynolds School Board has adopted the following policy regarding academic eligibility for all co-curricular activities and interscholastic athletics:

1. In order to be eligible for all co-curricular activities and interscholastic athletics, students must be passing all courses required for graduation.
 - A. To be eligible for athletics or co-curricular activities, seventh and eighth grade students must be passing the five core subjects of English, Reading, Social Studies, Science and Mathematics.
 - B. Seniors on work release must be enrolled in and passing a minimum of 4 credits.
 - C. The previous year's final grade is the controlling factor for all fall activities.
 - D. Nine weeks grades will be the controlling factor for participation in all school activities and athletics during the remainder of the school year. In all cases, however, the mid-term progress report grade will be used to determine restoration of eligibility for a student who has previously been declared ineligible. (Note: it is possible to be promoted but not be eligible because of failing a core subject).
2. A student must be in attendance for a minimum of 80 days per semester. Extenuating circumstances and extended illness, however, may be reviewed by the appropriate principal and a decision made which will be fair to the student while protecting the integrity of board policy. Physicians' statements may be required to restore eligibility.
3. If students are not in school by 10:00 A.M., they shall not participate in their particular activity that day unless an exception, for appropriate reasons, is granted by the school principal. This means that any student in any activity may not participate in either practice or scheduled events or contests on the day in question.
4. If a student is ineligible at the beginning of a marking period, he/she may practice if they attend the school sponsored tutoring sessions. The student may not participate in a scrimmage, tournament, or event with the team or organization while ineligible. If a student remains ineligible at midterm and/or the completion of the marking period, he/she may not continue to practice.

ALTERNATIVE LEARNING OPPORTUNITIES

AP Courses – Depending on interest and enrollment, we are offering Advanced Placement Courses in English, Calculus, Biology, Chemistry and Physics. Calculus and English are 1.0 credit, Biology, Chemistry and Physics are 1.5 credits and all will be weighted at 1.1. The weighting of Advanced Placement courses will be reflected in each student's Adjusted Grade Point Average (AGPA). The AGPA will be the determining factor for class rank at the conclusion of the school year. The completion of the AP Exam is required to receive a credit. Passing the AP Exam will result in Advanced Placement credits by colleges that accept AP credits. (The fee for taking the Advanced Placement Exam will be covered by the school district.)

Dual Enrollment – Students can earn high school and college credit by enrolling in course work at an approved local college. This program is available to 10th, 11th & 12th grade students who have a cumulative grade point average of 3.0 or better and a sincere desire to take college-level, credit-bearing courses at a local community college or four-year colleges and universities. If the funding is available, partial cost of the courses may be paid for through a grant from the state.

Distance Learning – Innovative technology will bring diverse educational opportunities to the students and staff at Reynolds High School. Students may choose to enroll in courses for credit, participate in short term seminars for non-credit or benefit from video field trips. Students in grades 11 and 12 may choose to enroll in courses for credit or non-credit seminars. Students in the GATE Program should consult with their teacher about appropriate program offerings. Interested students should see their guidance counselor for information about enrolling in this program. Credit courses may cost as much as \$500 which is the responsibility of the student.

Correspondence Courses – Students in grades 7 through 12 may enroll in correspondence courses for make-up credit or, in limited cases, to acquire original credit. Participation in this course work requires approval of the principal and the guidance counselor. Applications and additional information about this program are available in the guidance office. Fees for this program are varied based on the program and are the responsibility of the student.

Guided Independent Study – Students in grades 9 through 12 may elect to take courses by independent study with a mentor teacher. Arrangements and consent must be made through the guidance counselors and the mentor teacher.

Work Release – Twelfth grade students in the Work Release Program arrange regularly scheduled work in a career of their interest; attend an entrance interview with a guidance counselor to select goals/objectives; maintain journals of all activities; submit summary-reports on a quarterly basis; attend an exit interview with a guidance counselor to evaluate/assess the experience.

Home Education – Although the Board may approve a program of home education, pursuant to law, permitting students to study at home in accordance with Board policy, it is under no obligation to award a diploma or otherwise acknowledge the completion of a home-educated student's education. Additionally, any credits earned through an approved home-schooling program will not count towards graduation.

Butler County Community College (BC3) College within the High School – Students who qualify can earn transferable college credits by taking college classes at Reynolds JSHS. Classes run for 15 weeks and are scheduled before, during or after the school day by a Reynolds staff member. This program is available to students who have obtained the following cumulative grade point average.

Sophomores-3.25 Juniors-3.00 Seniors-2.75

CWHS applications and registration forms are available at the high school guidance office.

GRADUATION REQUIREMENTS – REYNOLDS HIGH SCHOOL

CLASSES OF 2023 & Beyond: Must meet all four criteria

1. 26 Credits
2. Attendance – must not miss more than 20 class periods per 180-day course
3. ** Complete Act 158 of 2018 Requirements (Keystone Exam Requirements) **
4. Complete Industry-Based Standards Requirement – 9 hours of job shadowing or earn a nationally recognized credential

**** REQUIREMENTS SET FORTH BY ACT 158 OF 2018 (KEYSTONE EXAM REQUIREMENTS) ****

OPTION 1: Keystone Exam Proficient Pathway – Scoring Proficient or Advanced on each Keystone Exam – Algebra 1, Literature, & Biology

OPTION 2: Keystone Composite Pathway – Earning a satisfactory composite score on the Algebra 1, Literature, and Biology Keystone Exams by achieving at least a proficient score on one or more of the three exams and no less than a basic score on the remaining two – the satisfactory composite score as determined by PDE is 4452

OPTION 3: Alternative Assessment Pathway – Successful completion of locally established grade-based requirements for academic content areas associated with each Keystone Exam on which the student did not achieve proficiency **and** one of the following:

- Attainment of an established score on an approved alternative assessment (SAT, PSAT, ACT, ASVAB)
- Attainment of an established score on an AP Exam in the area a student did not score proficient on the Keystone Exam
- Successful completion of a concurrent enrollment course in an academic content area associated with each Keystone Exam in which the student did not achieve a proficient score.
 - Examples:
 - Not scoring proficient/advanced on Algebra Keystone Exam means you must pass Geometry course
 - Not scoring proficient/advanced on Biology Keystone Exam means you must pass Biology 2 course
 - Not scoring proficient/advanced on Literature Keystone Exam means you must pass English 11

OPTION 4: Evidence Based Pathway – Successful completion of locally established grade-based requirements for academic content areas associated with each Keystone Exam on which the student did not achieve proficiency and demonstration of three pieces of evidence consistent with the student’s goals and career plans include:

One of the following:

- Attainment of an established score on the ACT WorkKeys Assessment or SAT subject test, an AP Program Exam
- Acceptance to an accredited nonprofit institution of higher education other than a 4-year institution and evidence of the ability to enroll in college-level coursework
- Attainment of an industry-recognized credential
- Successful completion of a concurrent enrollment post-secondary course

Two additional pieces of evidence including:

- One or more of the options listed above
- Satisfactory completion of a service-learning project
- Attainment of a score of proficient or advanced on a Keystone Exam
- A letter guaranteeing full-time employment
- Certificate of successful completion of an internship or cooperative education program
- Satisfactory compliance with the NCAA core courses for college-bound student athletes with a minimum GPA of 2.0

**** Students will take the Keystone Exams a minimum of two times if needed. No remediation courses will be offered during the school day. Study Island will be available to prepare for retake exams on the student’s own time. ****

INDUSTRY-BASED LEARNING GRADUATION REQUIREMENT PROCEDURES

WHAT IS AN INDUSTRY-BASED LEARNING REQUIREMENT?

- An experience designed to evaluate how students are engaged in work-and classroom-based activities prior to graduation.

WHERE DID AN INDUSTRY-BASED LEARNING REQUIREMENT DEVELOP?

- The Pennsylvania Department of Education includes an industry-based learning requirement as part of the Future Ready Index and Every Student Succeeds Act (ESSA) State Plan.

The Future Ready Index includes three categories:

1. Statewide Assessment Measures
2. On-Track Learning Measures
3. College and Career Ready Measures
 - The Industry-Based Learning Requirement falls within College and Career Readiness Measures

WHEN WILL THIS REQUIREMENT BEGIN FOR REYNOLDS STUDENTS?

- The graduation requirement will begin for the class of 2023 and beyond. All students in order to receive a diploma must complete and provide documentation of completion in one of the following areas.
 - WORK BASED-LEARNING EXPERIENCE
 - INDUSTRY-RECOGNIZED CREDENTIAL

WORK-BASED LEARNING EXPERIENCE PROCEDURES:

- **JOB SHADOWING** – A Career Exploration activity in which students gain exposure to careers they are interested in pursuing by working with a business volunteer. There must be a minimum of three different experiences and each experience must have a minimum of three hours. The business volunteer/owner must sign the certification form indicating the date of the hours and completion. The certificate form must be submitted to the assigned Job Shadowing Teacher or Principal prior to May 15 of the graduation year. Job shadowing experiences can be completed at any time after June 1 of the students' grade 9 start year. All questions are to be directed to the building Principal or Guidance Counselor.
- **INDUSTRY-RECOGNIZED CREDENTIAL** – An Industry-Recognized Credential measures competence in core content and performance standards in a specific set of work-related tasks. The work-related tasks and assessment must connect with workforce demands. Some examples of credentialing include the following: A student interested in Informational Technology, so earning an Adobe certificate, Microsoft Office, Network+, etc. would fulfill the requirement.

Cont'd from page 5:

A student interested in the Health Field could earn a CPR Heartsaver Certificate from the American Heart Association to fulfill the requirement. A student interested in Pre-Engineering and Drafting could earn a Drafting Certificate from the American Design Drafting Association. There are several Nationally Recognized Certificates that could fulfill this requirement. All work towards earning a certificate would be the responsibility of the student. All students need to get approved by the assigned teacher or Principal prior to beginning the certificate process. A signed and approved copy of completion of the certificate need to be submitted to the teacher two weeks prior to graduation. Industry-Recognized Credentialing can be completed at any time after June 1 of the students' grade 9 start year. If there are any questions or students want to research more types of credentialing, then please visit the following link on the PA Department of Education website:

www.education.pa.gov

Search: Department of Education>Industry Recognized>Pages>Health Science

Please sign, cut, and return this form to the assigned teacher:

By signing this form, you have received & read the Graduation Requirement Procedures & understand that documented completion must be submitted prior to May 15 of the graduating year in order to receive a diploma on time.

(Student's Name)

Graduating Year

(Student's Signature)

(Date)

(Parent's Signature)

(Date)

JOB SHADOWING STUDENT FORM

NAME: _____ **GRADE:** _____

DATE(S):

NAME OF HOST BUSINESS:

ADDRESS OF HOST:

PHONE NUMBER OF HOST:

ADDRESS OF HOST:

NAME OF CONTACT AT HOST: _____

1. List two specific observations from the experience.

2. List two questions during the experience and how the host answered them.

SIGNATURE OF CONTACT: _____

HOURS OF SHADOWING: _____

Forms are available in the guidance office

MINIMUM GRADUATION REQUIREMENTS

Students are required to schedule a minimum of 6.5 credits per school year.

These credits must include the following:

GRADES 9, 10, 11, 12

<u>Courses</u>	<u>Units</u>	<u>Courses</u>	<u>Units</u>
English	4.0	#Career Exploration	1.0
Social Studies	4.0	#Family & Cons. Science	1.0
Mathematics	4.0	#Intro to Materials Processing	1.0
Science	3.0	Health	1.0
		Physical Education	3.0
		Electives	6.5

SUBJECTS OFFERED BY GRADE

<u>Ninth Grade</u>	<u>Credits</u>	<u>Tenth Grade</u>	<u>Credits</u>
English	1.0	English	1.0
World History	1.0	Early Am. Hist./U.S. Hist. I	1.0
Pre-AP Biology (Weighted Course)*	1.5	Biology I	1.0
Pre-Biology	1.0	Biology II	1.0
Biology I	1.5	Chemistry*	1.5
Algebra I	1.5	Pre-AP Chemistry (Weighted Course)*	1.5
Geometry*	1.0	Algebra II*	1.0
Pre-Algebra	1.0	Geometry*	1.0
Physical Education	.5	Health	.5
Intro. Family & Consumer Science	.5	Accounting*	.5
Career Exploration	.5	Art II*	1.0
Spanish I	1.0	Drawing & Painting*	1.0
German I	1.0	Spanish II*	1.0
Concert Band	1.0	German II*	1.0
Concert Choir	1.0	Entrepreneurship*	1.0
Art I	1.0	Materials Processing	1.0
Guitar	.5	Accounting II*	.5
Mass Media/Newspaper	.5	Mass Media/Yearbook	.5
Mass Media/Video	.5		
Intro to Materials Processing	.5		

All 9th grade elective options are also available.

***Refer to course descriptions for pre-requisites.**

2 of 3 are required for graduation

SUBJECTS OFFERED BY GRADE:

Eleventh Grade	Credits	Twelfth Grade	Credits
English	1.0	English	1.0
Pre – AP English (Weighted Course)*	1.0	AP English (Weighted Course)*	1.0
Modern Am. Hist./U.S. Hist. II	1.0	Gov't/Economics	1.0
Science Trends	1.0	Science Trends	1.0
Biology II	1.0	Physics*	1.5
AP Biology (Weighted Course)*	1.5	AP Physics B (Weighted Course)*	1.5
AP Chemistry (Weighted Course)*	1.5	Biology II*	1.0
Geometry*	1.0	AP Chemistry (Weighted Course)*	1.5
Algebra II*	1.0	Calculus*	1.0
College Algebra/Trigonometry*	1.0	AP Calculus (Weighted Course)*	1.0
Pre-AP Calculus (Weighted Course)*	1.0	College Algebra/Trigonometry*	1.0
Practical Family Life	1.0	Business Math*	1.0
Spanish III*	1.0	Spanish IV*	1.0
Art II*	1.0	Volunteer Service	.5/1.0
Design & Manufacturing*	1.0		
Anatomy	.5		
Career Readiness	.5		

All 9th and 10th grade elective options.

All 9th, 10th, and 11th grade elective options are also available.

***Refer to course descriptions for pre-requisites.**

COURSE DESCRIPTIONS

ART COURSES

COURSE

Art I: (1.0 Credit) #10620
The art course will build upon the foundation of introduction to art. Students will creatively explore as broad a scope of materials and techniques – both two and three-dimensional – as time permits. Areas of study will include: photography and dark room techniques, color, design, crafts, commercial art, etc.

Art II: (1.0 Credit) (Pre-requisite: Art I) #10621
The student will continue to creatively explore, in greater depth, materials and techniques introduced in the previous art courses. Special emphasis will include painting, graphics, jewelry and silk screen. Time will be set aside for individual studio exploration in the art area of your choice.

Drawing and Painting: (1.0 Credit) Gr. 10-12 #10699
The Drawing and Painting course will expose the Art student to advanced skills and techniques of two dimensional art forms. The student will work with a variety of materials and mediums using the elements and principals of Art.

Art/Independent Study: (1.0 Credit) (Pre-requisite: Art Faculty Approval)
This class is designed especially for the senior who already has a good background in art fundamentals and wishes to explore certain areas of special interest on an individual basis. These interest areas can include photography, airbrush, sculpture, graphics, painting or any other art field for which supplies and equipment are available.

BUSINESS EDUCATION COURSES

COURSE

Entrepreneurship: (1.0 Credit) Grades 10-12 #10540
The focus of this course is to familiarize the students with the principles of owning and operating a business from the ground up. The company will consist of 5 different departments. The finance department will keep the company's financial records. The marketing and sales department will develop and carry out the company's marketing strategy. The production department will order raw materials, establish production goals, develop a production strategy and monitor quality control. The human resource team is responsible for developing the company's compensation plan and keeping attendance and payroll information. The president, officers, and all participants will gain valuable leadership and management experiences while performing several specific duties.

Pre – AP English: (1.0 Credit) Weighted: 1.05 #10033
(Pre-requisite: 85% or better in 10th grade English and recommendation of 10th grade English teacher)

Advanced Placement English Literature and Composition Prep is a course designed to prepare students for the rigors of the senior level AP English course. Students will explore many genres in literature – novels, plays, poetry, essays, and short stories – from a wide variety of literary periods. Students will engage in critical and analytical discussion and writing in response to the above mentioned literature.

Assigned summer reading is required. Failure to fulfill the summer reading requirement will result in removal from the course. The level of intensity of AP associated courses should not be underestimated by students; high expectations and standards will be upheld by any who wish to stay in the AP track.

English IV College Prep: (1.0 Credit) Grade 12 #10040
(Pre-requisite: Earned 76% or above in previous year Academic English and teacher recommendation.)

This course will refine composition skills and introduce in-depth research techniques to be used in the completion of three MLA term papers. In addition, the literature of England from the Anglo-Saxons to the modern period will be studied. Emphasis will be placed on public speaking presentations, communication skills and working as a team.

English IV: (1.0 Credit) Grade 12 #10041

This course involves reading, vocabulary and the study of various processes that will be helpful to any student in the future; e.g., developing resumes, completing job applications and developing necessary writing skills for success.

AP English Literature: (1.0 Credit) Weighted: 1.1 #10043
(Pre-requisite: 85% or better in Pre-AP English and teacher recommendation)

Advanced Placement English Literature and Composition is a weighted course, concentrating on critical reading and writing skills. Students will explore many genres in literature – novels, plays, poetry, essays, and short stories – from a wide variety of literary periods. The focus of the course will be preparation for the Advanced Placement Examination; any student, however, will benefit from learning to read and write critically and analytically.

Assigned summer reading is required; additional assignments may also be required. Failure to fulfill summer reading requirements or other assignments will result in removal from the course.

All students will be required to take the AP Exam at district expense.

AP English Language: (1.0 Credit) Weighted: 1.1 #10044
(Pre-requisite: 85% or better in Pre-AP English and teacher recommendation)

This course is designed to give students frequent opportunities to learn about the ways rhetoric and argument shape and influence our lives, community, and our world by examining rhetorical situations, author's purpose, as well as the audiences and the subjects in various themed and challenging texts. Students will write in a variety of modes for a variety of audiences, developing a sense of personal style and fluency, and cultivate an ability to analyze and articulate how the use of language operates in any given text.

>>Denotes courses required for graduation.

FOREIGN LANGUAGES**COURSE #****German I: (1.0 Credit) #10420**

German I is a beginner's course which emphasizes the skills of speaking, listening comprehension, reading and writing. In addition to these skills, the first year student will be introduced to the culture and customs of Germany.

German II: (1.0 Credit) #10421

Building upon the foundation learned in the first year course, the German II student will strengthen his/her skills in the areas of speaking, listening comprehension, reading and writing. By the end of the second year of study, the German II student will be acquainted with most aspects of German grammar and will have increased his/her first year vocabulary significantly.

**German III/IV as Independent Study: (1.0 Credit) #10424
(Pre-requisite: 84% in German II, Faculty Approval)**

This class is designed for juniors and seniors who would like to advance their knowledge of the German language and culture. Students will be responsible for meeting with the teacher and completing work on their own according to timeline set by the teacher.

Spanish I: (1.0 Credit) #10430

During the first year of Spanish, emphasis is placed on speaking and hearing the target language. This is aided through the use of CDs by native speakers. Writing skills are developed through the use of the textbook which is accompanied by a workbook.

Spanish II: (1.0 Credit) #10431

The second year of Spanish begins with a review of vocabulary and grammar learned during the first year. Emphasis is placed on further development of writing skills. Cultural readings, presented throughout the book, aid in the development of reading skills.

Spanish III: (1.0 Credit) #10432

Spanish III is a combination of materials learned during the first two years of Spanish and places an emphasis on Spanish literature, old and new.

Spanish IV: (1.0 Credit) #10433

Students must have completed materials required for Spanish I, II and III. Students in Spanish IV will further develop skills in preparation for college classes.

FAMILY AND CONSUMER SCIENCES**COURSE #****>>Introduction to Family and Consumer Sciences: (.5 Credit) #10750**

This semester course will build on concepts introduced in the eighth grade block class, in the areas of consumer interests, resource management, child care, food preparation, and nutrition. It will help students to gain usable skills in decision making and balancing responsibilities, as well as understanding family interactions and changes.

Practical Family Life: (1.0 Credit) #10751

This course addresses many areas of family and personal relationships. It also covers parenting, child development, healthy lifestyles and much more.

>> Denotes courses required for graduation.

>>MATHEMATICS COURSES**COURSE #**

Algebra I: (1.5 Credit) #11310/11410

Algebra I consists of performing all the basic mathematics material operations on unknowns. Equations and inequalities are solved and graphed. Statement problems are translated into math problems and solved. Equations are viewed on the coordinate plane. Systems of equations and fractional expressions are explored. In order to take in eighth grade, must also pass readiness test/teacher recommendation.

Geometry: (1.0 Credit) #11330/11430

(Pre-requisite: Algebra I)

Geometry is a college preparatory course that is the study of lines, angles, polygons, and circles. Students will apply definitions, postulates and theorems to solve traditional problems as well as real world applications. This academic course stresses higher order reasoning and logical proof.

Algebra II: (1.0 Credit) #11340/11440

(Pre-requisite: Algebra I & Geometry)

Algebra is a college preparatory course. This course begins with a review of linear equations, inequalities, and systems. The study of quadratic equations, inequalities, and rational equations are emphasized (concepts as well as real-world applications). Problem solving strategies and skills are enhanced throughout the algebra. The application of graphing calculators will be used to confirm algebraic concepts. Higher order thinking skills such as logical thinking, analytical thinking and abstract thinking will be emphasized.

College Algebra/Trigonometry: (1.0 Credit) #10140

(Pre-requisite: 80% or better in Algebra II and Geometry)

This course covers the topics needed for further academic study in math and/or sciences. Included are 1) a review of number properties and basic operation on polynomials, rational expressions, exponents and radicals, 2) solving algebraic and trigonometric equations, 3) trigonometric formulas, identities and graphs, 4) solving triangles, 5) systems of equations, 6) matrices and determinants, 7) sequences, mathematical induction and the binomial theorem and 8) introduction to conics section.

Business Math: (1.0 Credit) **SENIORS ONLY** #10143

(Pre-requisite: Algebra I and Geometry)

Business Math is an applications course covering the basic mathematics needed to function in everyday life. Budgeting, borrowing, and saving money will be stressed. Topics in this course include: types of income and careers, banking services such as checking accounts, credit cards, and loans. Also explored will be the process of owning your own car and home, insurance, investing, and how taxes are completed.

>>Denotes courses required for graduation.

Calculus: (1.0 Credit) #10141

(Pre-requisite: 80% or better in Algebra I, Algebra II, Geometry & College Algebra/Trig)

The Calculus course consists of a full year of calculus with elementary functions. It is comparable to introductory calculus in college and universities. This course is primarily concerned with the intuitive understanding of the concepts of calculus and experience with its methods and applications. Topics in this course will be functions and graphs, limits and continuity, differential calculus, and integral calculus through the volumes of solids of revolution.

>>Denotes courses required for graduation.

Pre-AP Calculus: (1.0 Credit) Weighted: 1.05 #10139
(Pre-requisite: 85% or better in Pre AP Calculus and teacher recommendation)
>>Denotes courses required for graduation.

This course covers the topics needed for further academic study in math and/or sciences and prepares students for the rigors of AP Calculus. Included are 1) a review of number properties and basic operation on polynomials, rational expressions, exponents and radicals, 2) solving algebraic and trigonometric equations, 3) trigonometric formulas, identities and graphs, 4) solving triangles, 5) systems of equations, 6) matrices and determinants, 7) sequences, mathematical induction and the binomial theorem, 8) introduction to conics section, 9) solving and graphing logarithmic and exponential equations, and 10) emphasis on limits and abstract algebra.

AP Calculus: (1.0 Credit) Grade 12 Weighted: 1.1 #10142
(Pre-requisite: 85% average or better in Math grades 8 – 11)

The AP Calculus course consists of a full year of calculus with elementary functions. It is comparable to introductory calculus in colleges and universities. This course is primarily concerned with the intuitive understanding of the concepts of calculus and experience with its methods and applications. Topics in this course will be functions and graphs, limits and continuity, differential calculus, and integral calculus through the volumes of solids of revolution.

All students will be required to take the AP Exam at district expense.

MUSIC COURSES

COURSE #

Concert Band: (1.0 Credit) #10640

This course is open to students previously enrolled in the instrumental program or students with previous outside experience who pass an audition given by the Director of Bands. Concert Band exposes the student musicians to a wide and varied repertoire. Represented musical periods include Baroque, Classical, Romantic and Contemporary. Performances include a Fall Concert, Winter Concert, Music in Our Schools Concert, Spring Concert, and Commencement, along with various during-school performances.

Concert Choir: (1.0 Credit) Grades 9-12 #10631

This course is open to those students selected through an open audition held in the spring for the following year. Concert Choir/Mixed Chorus will expose students to a wide variety and style of vocal music including Renaissance, Baroque, Classical, Romantic and Contemporary as well as Pop, Jazz and Broadway. Emphasis is placed on tone production, diction, articulation, breathing, music reading, and fun. A minimal performance schedule includes a Winter Concert and Spring Concert and occasional during-school performances, as scheduled.

Marching Band: (1.0 Credit) Grades 9-12 #10643

This course is open to students previously enrolled in the instrumental program or students with previous outside experience. The Marching Band course gives students an opportunity to improve their playing, marching, and maneuvering skills. Students enrolled in this course will be expected to attend Band Camp as well as after-school rehearsals in order to fine-tune performances along with those members who are not enrolled in the course. Students are also expected to attend evening and weekend performances.

Guitar: (.5 Credit) Grades 9-12 #10644

This course is designed for students with little to no previous experience playing the guitar. Students will begin with the fundamentals of reading pitches and rhythmic notation and will progress to playing basic chords that can be used to accompany singing. By the end of the course, students will be able to read basic lead sheet as well as tablature notation. Students must supply their own instrument.

PHYSICAL EDUCATION AND HEALTH COURSES

COURSE #

Anatomy: (.5 Credit) #10740

This semester course will emphasize the study of skeletal and muscular systems. It is especially helpful in preparation for future studies in nursing and other health related studies.

>>Health: (.5 Credit) #10722

Health is not just the absence of disease or sickness, but the state of complete physical, mental and social well-being. The primary goal in life is not merely to live long, but also to live well. Health education is a required program in the school curriculum to develop the individual's knowledge and understanding of the progressive health advances which are evident in his/her changing society and to motivate the individual to apply these principles and practices of healthful living.

>>Physical Education: (.5 Credit) #10700, 10704/10705

The course includes the teaching of those activities that will aid in the development of the individual physically, mentally, emotionally and socially, and the contribution of skills for worthy use of leisure time. The methods used will be both demonstration and participation.

>>Denotes courses required for graduation.

>>SCIENCE COURSES**COURSE #****Pre-Biology: (1.0 Credit) #10218**

The Pre-Biology course is designed to introduce the basic biology concepts necessary to promote biological literacy. This course provides 9th graders with the necessary transition into the high school science program without restricting their options for science electives during their high school career. An emphasis will be placed on a complete understanding of the vocabulary necessary to understand biological processes. Successful completion of this class will be followed by Biology I in 10th grade, after which they will then complete the keystone biology test. The general concepts included are: the scientific method, basic chemistry, biochemistry, cell structure, function and processes, evolution, genetics, ecological relationships, and biotechnology. Pre-Biology is not a keystone exam testing course.

Biology I: (1.5 Credit) #10219

Biology I includes a brief history of the biological sciences and current developments in many related areas. It develops an awareness of the variety and extent of the living world and the interrelationships existing between creatures and their environment. It will also help students gain a knowledge of the functions of living things and the structures necessary for performing these functions. The course will also introduce students to the principles of heredity and its effect of themselves and other living organisms.

**Biology II: (1.0 Credit) #10240
(Pre-requisite: Biology I and Chemistry)**

This course will cover organic evolution and a study of the simplest organisms to the most advanced to gain understanding of their relationships. Genetics is one of the cornerstones of the course. Different types of inheritance will be studied, including human genetics. Students will be studying patterns of inheritance with investigations of the fruit fly.

**Pre-AP Biology: (1.5 Credit) Grade 9 Weighted: 1.05 #10223
(Pre-requisite: 85% or better in 8th grade science and recommendation of 8th grade science teacher)**

The Pre-AP Biology course is designed to prepare students for the AP Biology course. This course will differ from usual high school biology courses in the depth, breadth, and rate at which material is covered in the course. The course will also differ in the amount of time and effort students will put into the class. To get a feel, students will use the same textbook that is used in the AP Biology class. Students will not have a lab section, but will perform some of the AP labs during class time to get a feel for the requirements of a college biology laboratory. The Pre- AP course aims to provide students with the knowledge, skills and critical thinking ability to deal with the pace and amount of material that is to be covered in an AP Biology course. The goal of the course is to provide students with an understanding of biology and provide skills necessary to complete a college biology or AP Biology course.

>> Denotes courses required for graduation.

AP Biology: (1.5 Credit) Grade 11 Weighted: 1.1 #10222
(Pre-requisite: 85% or better in Pre-AP Biology and teacher recommendation)

The Advanced Placement Biology course is designed to be the equivalent of a college introductory biology course, usually taken by biology majors during their first year. The AP Biology course differs significantly from the usual high school biology course with respect to the kind of textbook used, the range and depth of topics covered, the scope of laboratory work performed by students, and the time and effort required of students. AP Biology aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. The goal of a college introductory biology course, and therefore of an AP Biology course, is to provide a learning environment that enables students to develop a solid understanding of the principal concepts in biology. College Board guidelines are followed in shaping the course.

All students are required to take the AP Exam at district expense.

Chemistry: (1.5 Credit) #10230
(Pre-requisite: Algebra I)

The course begins with a brief review of general science principles that apply to chemistry, includes matter of energy concepts, measurement, scientific methods and an overview of the development and purpose of chemistry. The main contents of the course are atomic structure, formula writing, chemical equations, mole concept and mass relations, gas laws, acids, bases and salts, and a survey of organic chemistry. Throughout the course, basic chemical laboratory techniques are explored in each chapter.

>> Denotes courses required for graduation.

Pre-AP Chemistry: (1.5 Credit) Weighted: 1.05 #10234
(Pre-requisite: 85% or better in Algebra I and 85% or better in Pre-AP Biology or Biology (preferably in Pre-AP Biology) and teacher recommendation.)

Pre-AP Chemistry is a course designed to expose college bound students, with an interest in science, to the forms, properties, and interactions of matter. It is taught at a college level, and tends to be very demanding. Additionally, this is a class that will require a significant amount of effort on your behalf. The course goals are to prepare students for the AP Chemistry course. Students will have a lab section to reinforce the concepts in Chemistry. Concepts include but not limited to: matter, atoms, chemical bonds, elements, compounds, mixtures, solutions, chemical reactions, molarities and stoichiometry.

AP Chemistry: (1.5 Credit) Weighted: 1.1 #10236
(Pre-requisite: 85% or better in Pre-AP Chemistry and teacher recommendation)

AP Chemistry is a highly specialized course for qualified students whose future includes university attendance with a possible major in the sciences. AP Chemistry is equivalent to a rigorous first year college-level chemistry course and is designed for students with strong mathematics and problem-solving skills along with a genuine love of science and its application. Topics of study include Matter and Measurement, Atoms, Molecules and Ions, Stoichiometry, Thermochemistry, Periodic Properties, Chemical Bonding, Molecular Geometry, Properties of Solutions, Chemical Equilibrium, Acids and Bases, Thermodynamics, Electrochemistry. Many of these units involve a large amount of mathematical calculations and manipulations.

All students are required to take the AP exam at district expense.

>>Denotes courses required for graduation.

Physics: (1.5 Credit) #10243
(Pre-requisite: Trigonometry – may be taken concurrently)

Physics is designed to give students an understanding and appreciation of the physical world around them. Topics covered in the class include motion, force, energy, rotational dynamics, acoustics, optics and electricity. Labs and projects help the students develop skills in problem-solving, data analysis and teamwork. Students should have passed or be currently enrolled in Trigonometry. **This course is a pre-requisite for AP Physics.**

AP Physics B: (1.5 Credits) Grade 12 Weighted: 1.1 #10245
(Pre-requisite: 85% or better in College Algebra/Trig and 85% or better in Physics and teacher recommendation)

AP Physics B is comparable to an introductory college level, algebra-based physics course. The course includes a study of the following areas: Newtonian mechanics, fluid mechanics and thermal physics, electricity and magnetism, waves and optics, and atomic and nuclear physics. The goals of this course include an understanding of the key concepts as well as an application of these concepts to problem-solving. Laboratory experiences will be a key component.

All students will be required to take the AP Exam at district expense.

Science Trends: (1.0 Credit) #10231

Science Trends gives students the opportunity to study current topics in science. A major part of the class includes a study of the environment (ecosystems, biodiversity, pollution, resources, and energy production) and humans' influence on it. The remaining class time is used to explore science topics found in the news, including the Discovery Channel, magazine articles and new program specials.

>>SOCIAL STUDIES COURSES

COURSE

World History: (1.0 Credit) #10319

This course emphasizes a chronological study of how cultures developed in different parts of the world. Further, this course follows world history from the prehistoric period through the 21st century. Students will see the birth and development of Western and Eastern civilizations. Reviews world history from the end of the agricultural period, to the Industrial Revolution and then fast forward to today. The course looks at the effects of Nationalism, Imperialism and Democracy on the history of the world. Students will also learn about the ways World War II changed the face of the world. The course ends with an overview of the world today, and looks into the possible events that may happen in the future.

Early American History/U.S. History I: (1.0 Credit) #10329

A major focus of this course is to make the student aware of the historical, cultural, political and social events that have directly or indirectly shaped and altered civilizations throughout the course of history. The course will incorporate a broad body of historical knowledge:

- Use of historical evidence to defend and support basic arguments and positions.
- Differentiate between various schools of historical thought and interpretation.
- Interpret and draw conclusions from various pieces of historical data including original documents, cartoons, graphs, etc.
- Demonstrate an effective use of analytical skills of evaluation, cause and effect relationships, and compare and contrast.

Modern American History/U.S. History II: (1.0 Credit) #10330

Modern American History is a course that will cover the post-Civil War United States to the present day. The course will feature a chronological history of the growth of the United States as a world power. The course units will include: Reconstruction, The Settling of the West, The Age of Big Business, Imperialism, The Great War, The Depression, World War II, The Cold War and The Vietnam War.

>>Denotes courses required for graduation.

Government/Economics: (1.0 Credit) #10340

In the senior year students will study both Economics and Law. Economics in the first half of the year, Law in the second. In Economics we will study supply and demand, the function and value of money, the Federal Reserve and our tax structure. In the Law we will study the foundations of the Law, the Criminal Justice System and Civil procedures. Students will be required to write a term paper, Law Case Study, possibly perform in a mock trial, a speech, or a debate. Throughout the year a heavy emphasis will be placed on current events.

TECHNOLOGY COURSES

COURSE #

>>Intro to Materials Processing: (.5 Credit) #10514

This is a Semester course designed to build upon skills acquired in 8th Grade Technology Block courses with emphasis placed on 3D modeling, measurement, the creation of functional drawings, design, and an introduction to the use of the tools and equipment available in the Fab Lab / Manufacturing areas of the building.

**Materials Processing: (1.0 Credit) #10515
(Pre-requisite: Intro to Materials Processing)**

This course is designed to build upon skills acquired in previous Technology courses with emphasis placed on design. Students will be engaged in team activity requiring social interaction and leadership skills. Some engineering aspects involved will be aerodynamics and material analysis. Students will utilize and build upon design skills and the use of CADD programs such as inventor.

**Design and Manufacturing: (1.0 Credit) #10516
(Pre-requisite: Materials Processing)**

In this course students will be responsible for a (kit purchase) and production of an electric guitar or bass. Great attention to detail will be necessary, due to the complexity of the product. Advance design skills for CADD Inventor will be required as well as advanced skills in Master CAM and Illustrator.

**Yearbook Mass Media: (.5 Credit) #10056
(Pre-requisite: application with teacher recommendations)**

This course is designed to assist students in becoming efficient in the use and production of digital media through the medium of a high school yearbook. Students will be able to write pages, take photographs, use elements of graphic design, and employ marketing strategies through the completion of the high school yearbook.

>>Career Exploration: (.5 Credit) #10060

The purpose of this course is to relate careers to individual interests, abilities and aptitudes. Explain how both traditional and nontraditional careers offer or hinder career opportunities. Analyze the economic factors that impact employment opportunities, such as, but not limited to: competition, geographic location, job growth, labor supply, potential earnings and salaries/benefits. Analyze the relationship of school subjects, extracurricular activities and community experiences to career preparation and create an individualized career plan.

Career Readiness: (.5 Credit) #10061

The purpose of this course is continuation of Career Exploration, awareness, preparation, abilities, personal interests, career selection influences and the relationship between education and career. The student will learn job interviewing skills, good work habits, budgeting, time management and group interaction. They will learn ways to be a good Entrepreneur; risks and rewards, character traits and developing a resume, cover letter and business plan.

>>Denotes courses required for graduation.

Video Mass Media: (.5 Credit) #10054
(Pre-requisite: application with teacher recommendations)

This course is designed to assist students in becoming efficient in the use and production of digital media through the medium of a weekly television broadcast. Students will be able to write, film and produce weekly news broadcast shows.

Newspaper Mass Media: (.5 Credit) #10052
(Pre-requisite: application with teacher recommendations and samples of writing)

This course is designed to teach students basic skill in newspaper writing, editing, and formatting. Students will apply this knowledge through the publication of a monthly edition of the school newspaper, The Raider Invader.

ADDITIONAL OPTIONS

COURSE #

GATE: (Gifted and Talented Education) (1.0 Credit) #10910

This program gives academically gifted students an opportunity to explore areas of interest beyond the regular classroom curriculum. Students may be recommended for participation by self, peers, teachers or parents. Pennsylvania State Law requires that a student be evaluated for the program by a multidisciplinary team composed of various educational personnel. The major focus of this course is to provide the student with the study of major issues and significant ideas, the opportunities to develop awareness, understanding, and enjoyment of a wide variety of literature, and projects that are interdisciplinary in nature. The annual goal of the gifted classroom is to improve the students' communication, thinking, and research skills.

Mercer County Career Center: (3.0 credits per year) Grades 11 and 12 #10900

Students attending the Mercer County Career Center (MCCC) take the required academic courses at the high school and then the vocational courses are completed at the MCCC. All courses are competency based. Courses can be completed in 2 years with the exception of Cosmetology which is a 3 year program.

Initial contact is made in 8th grade for all students and then again in 9th and 10th grade. Those students with a continued interest, will have the opportunity in 10th grade to visit the MCCC prior to selecting a shop.

***See page 22 for courses offered by MCCC**

Courses offered at the Mercer County Career

Automotive Mechanics Technology

Automotive Technology allows students to perform a wide range of diagnostics, repairs, and preventative maintenance on automobiles and light trucks. Students will gain the technical knowledge and skills to obtain an entry-level position and/or pursue postsecondary education. The program's curriculum enables students to develop basic knowledge through classroom theory lessons and acquire a core set of technical skills by applying learned knowledge in hands-on shop experiences. Classroom lessons include lectures, reading and writing assignments, and demonstrations. The program's instruction includes the diagnosis and testing of malfunctions in and repair of engines, fuel, electrical, cooling, steering, suspension and brake systems. Students also prepare to obtain certifications for PA Safety Inspection; Emissions Inspection; and Refrigerant, Recovery, and Recycling.

Carpentry

Carpentry prepares students to obtain entry-level positions in the construction or wood industries, apprenticeships in trade unions and/or to pursue enrolling in postsecondary institutions for degrees in construction, sales, or management. The program's curriculum enables students to develop a knowledge base through classroom theory lessons and acquire technical skills by applying learned knowledge in hands-on shop experiences. Classroom lessons include lectures, reading and writing assignments, demonstrations, individual and group projects and activities. The program's instruction includes units on safety, hand and power tools, blueprint reading, framing, interior and exterior finish, construction materials, measuring, estimating, and building codes. Students also study technical mathematics, residential steel-framing, and cabinetmaking.

Collision Repair and Refinishing

Collision Repair and Refinishing prepares students to obtain an entry-level position in auto body repair and/or to pursue postsecondary education. The program's curriculum enables students to develop technical knowledge through classroom theory lessons and acquire a core set of skills by applying learned knowledge in hands-on shop experiences. Classroom lessons include lectures, reading and writing assignments, and demonstrations. The program's instruction includes units on workplace skills, safety techniques, vehicle design and function, structural and non-structural welding, estimating repair costs, collision repair procedures, and automotive painting and refinishing. Students learn these fundamental skills of repairing and refinishing damaged vehicles using the tools, products, and materials found in auto body shops and repair facilities.

Computer Information Technology

Computer Information Technology prepares students to obtain entry-level employment and/or provides the foundation for post-secondary success. The program's curriculum enables students to develop a basic level of knowledge through classroom theory lessons and acquire a core set of technical skills by applying learned knowledge in hands-on lab experiences. Classroom lessons include lectures, reading and writing assignments, demonstrations, and individual and group activities. The program will provide students experience in the administration and support of computer networks, which includes: user and group management, server security, network sharing, operating systems, user and workstation security, help desk support, computer repair and remote access. Students will focus their study on network technologies, network devices, network management, tools and security. Computer Information Technology students will be expected to read and interpret complex instructions, technical literature and solve a variety of technical problems

Computer Programming

Computer Programming prepares students for either entry-level employment in a variety of rapidly growing computer careers or continuing education at the post-secondary level. Students will be introduced to many computer concepts including the following: flowcharting, structured programming for the Internet, games programming, and the programming languages, complete projects and pursue industry recognized certifications. The skills learned in this program serve as a foundation needed to pursue postsecondary degrees leading to a career as a software developer, programmer, application developer or game designer.

Cooperative Education

MCCC offers cooperative education opportunities to our students through partnership with local businesses and industry to allow our students to obtain first-hand experience in the trade of their choice. Students can earn a paycheck while continuing to learn the finer points of their chosen trade, while working in the field with seasoned professionals.

Cosmetology

Cosmetology trains students to become licensed cosmetologists in specialized or full-service salons. The program's curriculum provides concentrated studies in the professional competency areas unique to the cosmetology field. Students develop a knowledge base through classroom theory lessons and perfect their clinical skills by applying learned knowledge in the program's student-operated salon. Classroom lessons include lectures, reading and writing assignments, demonstrations, individual and group projects, as well as other activities. The program's instruction includes units on shampooing, conditioning, cutting and styling hair; chemical texture services and hair coloring techniques; and providing facials, manicures and pedicures. Personal safety, professionalism, and the sanitation and disinfection of equipment and facilities are emphasized. Students also study business management with a focus on managing a salon.

Culinary Arts

Culinary Arts prepares students to obtain entry-level employment related to institutional, commercial, or independently owned food establishments and other food industry occupations and/or provides a foundation for students who pursue acceptance into a postsecondary culinary program. The program's curriculum enables students to develop knowledge through classroom theory lessons and acquire culinary skills by applying learned knowledge in the program's fully equipped commercial kitchen and dining room. Classroom lessons include lectures, reading and writing assignments, demonstrations, and individual and group projects and activities. The program's instruction includes units on use and care of

Diesel Technology

Diesel Technology prepares students to obtain entry-level employment and/or to pursue postsecondary education. The program's curriculum enables the students to develop basic knowledge through classroom theory lessons and acquire a core set of technical skills by applying learned knowledge in hands-on shop experiences. Classroom lessons include lectures, reading and writing assignments, and demonstrations. The program's instruction includes units on safety, diesel engine mechanics, suspension and steering, brake systems, electrical and electronic systems, and preventive maintenance. Students develop skills for troubleshooting problems; disassembling, rebuilding, and reassembling engines; applying electrical principles to service electrical/electronic systems; inspecting, repairing or replacing various systems' components; and performing preventive maintenance on medium/heavy vehicle systems.

Early Childhood Education

Early Childhood Education allows students to obtain a variety of entry-level childcare occupations in day care centers and preschools and/or provides a foundation for students who pursue a postsecondary early childhood education program. The program's curriculum enables students to develop a knowledge base through classroom theory lessons and acquire care giving, teaching, and managing skills by applying learned knowledge in the program's fully equipped preschool. Classroom lessons include lectures, reading and writing assignments, demonstrations, and individual and group projects and activities. Instruction includes units on growth and development; nutrition; program play activities; child abuse and neglect; learning experiences for children; and laws, regulations, and policies relating to childcare services.

Electrical Occupations

Electrical Occupations prepares students to apply technical knowledge and skills necessary to install, operate, maintain and repair electrically-energized residential, commercial and industrial systems, and DC and AC motors, controls and electrical distribution panels. Instruction emphasizes practical application of circuit diagrams and use of electrical codes and includes blueprint reading, sketching and other subjects essential for employment in the electrical occupations. Reading and interpretation of commercial and residential construction wiring codes and specifications, installation and maintenance of wiring, service and distribution networks within large construction complexes are also critical components of the program.

Health Care Careers

Health Care Careers prepares students to obtain entry-level positions in the health field and/or to pursue postsecondary education. The program provides students with health career exploration activities, instruction of basic skills, which are fundamental to all areas of health care, and clinical experiences. Students develop health care knowledge through classroom theory lessons and practice health care skills in a laboratory setting prior to their clinical assignments. Classroom lessons include lectures, reading and writing assignments, demonstrations, and individual and group projects. The program's core instruction includes units on medical terminology, anatomy and physiology, basic clinical skills, aseptic techniques, OSHA regulations, and infection control.

Innovation and Entrepreneurial Development

Innovation and Entrepreneurial Development enables students to learn first-hand about the risks and rewards of starting and operating a small business. The program's curriculum provides students with knowledge and skills of fundamental business concepts and entrepreneurship. PowerPoint presentations, reading and writing assignments as well as hands-on activities provide students with an overview of the steps and considerations involved in turning an idea into a business, identifying a passion or hobby that can provide a product or service, researching the market, and weighing the risks of starting a small business. The program's core instruction includes units on economic principles, business plans, business related math skills, technology skills and sales along with marketing techniques. Students engage in various business activities related to each planned unit.

Logistics – Material and Supply Chain Management

Logistics and Materials Management is designed to prepare individuals for entry level employment in this industry. Students will learn and perform logistical functions associated with receiving, storing, shipping goods, and the various systems and record keeping for supply chain management. Students with good attention to detail who enjoy a fast-paced, hands-on, physical workplace would be successful in this program. The curriculum provides instruction in the use of powered material, handling equipment, and OSHA safety and ergonomics. Supply chain management, automated inventory control systems, purchasing, receiving, order selections, packaging, and shipping methods are presented. Academic subjects include business mathematics and communications. The course includes job retention skills and customer relations.

Precision Production Metals

Precision Production Metals prepares students to obtain entry-level employment in the machine tool industry, apprenticeships sponsored by unions or manufacturers, and/or to pursue enrollment in postsecondary programs. The program's curriculum enables students to develop a knowledge base through classroom theory lessons and acquire technical skills by applying learned knowledge in hands-on shop experiences. Classroom lessons include lectures, reading and writing assignments, and demonstrations. The program incorporates national skills standards developed by the National Institute of Metalworking Skills (NIMS). Instruction includes units on bench work and the operation of lathes, power saws, grinders, milling machines, drills and computer operated equipment. Students also study the use of precision measuring instruments such as layout tools, micrometers and gauges as well as blueprint reading. Emphasis is on machining parts for the NIMS performance exams.

Welding

Welding prepares students to obtain entry-level employment as a welder or in related positions in all types of small and large companies and/or to pursue enrolling in postsecondary programs such as welding engineering or metallurgy. The program's curriculum enables students to gain a knowledge base through classroom theory lessons. Program activities allow students to put their classroom learning into hands-on practice of technical skills. Classroom lessons include lectures, reading and writing assignments, and demonstrations. The program's instruction includes units on safety practices, gas cutting and welding, arc welding in various positions, and types and uses of electrodes and welding rods. Students also learn to fabricate and join metal parts according to diagrams, blueprints, and specifications.

NCAA INITIAL ELIGIBILITY AND CLEARINGHOUSE

Division I – 16 Core Courses

*Athletics aid, practice, and competition

If you plan to enter college, you will need to present 16 core courses in the following breakdown:

16 Core Courses

Ten (10) core courses completed before the start of seventh semester.

Seven (7) of the 10 must be in English, math, or natural/physical science.

“Locked in” for core-course GPA calculation.

Corresponding test score (ACT sum score or SAT combined score) and core-course GPA (minimum 2.300) on Sliding Scale B.

Graduate from high school.

Division II – 14 Core Courses

If you plan to enter a Division II college you must have 14 core courses to be eligible to practice, play and receive financial aid.

14 Core Courses

4 years of English (Academic)

2 years of mathematics -Algebra I or higher

Algebra IA and IB are considered only 1 year/credit

2 years of natural/physical science

1 year of lab if offered by high school

1 year of additional English, mathematics or natural/physical science (Academic)

2 years of social science

3 years of additional courses (from any area above or foreign language, but not doctrinal religion/philosophy or computer science)

More information on the NCAA Clearinghouse and student-athlete eligibility can be found online at https://www.ncaaclearinghouse.net/ncaa/NCAA/student/index_student.html.

PLAN AHEAD SHEET

Use the chart below to help you look over your entire four years in high school. Consider the required credits for graduation and then decide which courses you will choose and when you will take them. Write in your course titles in the spaces on the chart. Check the number of credits you have earned and plan to earn. Will you have the 26 credits required for graduation? Your counselor will gladly assist you in planning ahead for courses and careers. Your parents or guardians should also be well aware of your thoughts and interests as you go through this planning process. Make sure you involve them early rather than late.

Note: All courses are open to all students who meet the pre-requisite requirements.

SUBJECT FIELD	9 TH	10 TH	11 TH	12 TH	REQUIRED CREDITS
English					4.5
Social Studies					4.0
Mathematics					4.5
Science					3.5
Elective (Required Minimum)					6.5
Elective (Additional)					
#Family & Consumer Science					0.5
#Career Exploration					0.5
#Intro to Mat. Processing					0.5
Phys. Ed.				1.5	
Health					0.5
Total					26

2 of 3 required for graduation