



**Uniontown Area High School
Course Catalog
2020-2021**

Administration

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Graduation Requirements

The following credits must be included in the minimum of 25 credits:

Language Arts 9, 10, 11, and 12

- 4 Social Studies credits
- 4 Mathematics credits
- 4 Science credits
- 2.5 Elective credits
- 1 Business/Computer credits (must include Computer Applications I)
- 1.5 Physical Education/Health credits
- .5 Aquatics credits

Graduation Requirements for FCCTI Students

The following credits must be included in the minimum of 25 credits:

Language Arts 9, 10, 11, and 12

- 3 Social Studies credits
- 4 Mathematics credits
- 3 Science credits
- 1.5 Elective credits
- 1 Business/Computer credits (must include Computer Applications I)
- 1.6 Physical Education/Health credits
- .5 Aquatics credits

All students will be required to complete a senior project and score at the proficient level or higher on the Keystone Exams (or other requirements as mandated by the PA Dept. of Education).

Community Service Project for Credit

The Community Service Program seeks to prepare students to succeed in the outside world through a cooperative effort among students, parents, and the community. The program aims to create and encourage networks and relationships within the community that will help establish and enhance values of young people through hands-on experience in community service. Students may earn from one-fourth to one full credit for participating in community service projects.

Dual Enrollment

Uniontown Area High School has entered into an articulation agreement with Mt. Aloysius College. The articulation agreement enables students to gain college credit for courses that they complete here at UAHS.

General Information

Advanced Placement Courses

Advanced placement courses are offered to ambitious students who are interested and willing to extend themselves in certain academic disciplines. Students in the advanced placement classes can apply to take the College Board Advanced Placement Examinations, and may gain college credit through this process.

Class Rank

Class rank is determined at the end of grades 9, 10, 11, and 12. Students are ranked in order according to total Quality Points Accumulated divided by the number of credits earned.

Grade Values	
A (AP, College Level, & Honors)	5
A	4
B (AP, College Level, & Honors)	4
B	3
C (AP, College Level, & Honors)	3
C	2
D	1
F	0

Note: Students who transfer into Uniontown Area High School will have all transferred classes assessed by the principal who will calculate and approve Quality Points and class rank. Transfer students will not receive more quality points than are available to four-year UHS students. Also, transfer students must attend UAHS for at least four full semesters to be eligible for Salutatorian or Valedictorian.

Honor Roll

Students must carry at least three classes, each worth one or one-half credits in order to be considered for the honor roll. Advanced Placement and Honors level courses are valued one point higher except for D's. Students that earn less than a "C" grade in any course do not qualify for the honor roll. At the close of each nine-week period, qualified students will be named to a three-phase honor roll:

Highest Honors	4.00 - 3.70
High Honors:	3.69 - 3.40
Honors:	3.39 - 3.20

National Honor Society

The following criteria must be met in order to become a member of the National Honor Society (junior & senior Students). Please note that eligibility for the National Honor Society is determined in the spring of students' junior year:

- A cumulative GPA of 3.5 is required.
- Students who are eligible must complete a Student Activity Information Form. The form should include community service details.
- A faculty committee will review all Student Activity Information Forms.
- Candidates receiving a majority vote of the faculty committee will be inducted into the chapter.
- Candidates are rated based upon their Service, Character, Leadership, and Scholarship.
- After induction, students must maintain a 3.5 GPA in order to remain in the National Honor Society.

Grade Placement

Minimum requirements for grade placement:

9th grade	Satisfactory completion of 8th grade.
10th grade	Pass 6 credits including a 9th grade course in English and Mathematics.
11th grade	Pass 12 credits including a 10th grade course in English and Mathematics.
12th grade	Pass 18 credits including an 11th grade course in English and Mathematics.

Progress Reports/ Report Cards

Progress reports will be posted on the CSIU Grading Portal at the end of the fifth week of each grading period. Report cards are sent home with students at the end of each grading period.

Schedule Change Guidelines

Students are provided with multiple opportunities to conference with their guidance counselor regarding course selection. Once schedules have been distributed, no schedule changes will be made except for the following circumstances:

- A course is needed to meet graduation requirements (seniors only).
- Credit has been earned during summer school.
- Review reveals that course pre-requisites have not been met.
- Clerical error has occurred.

Withdrawal from a course:

- A student may not withdraw from a half credit course after 5 class days and a one credit course after 10 class days. Exceptions must be approved by the administration.
- Withdrawal from a course can only occur in cases of emergency or extreme hardship. Withdrawal at any time prior to the end of the course will result in loss of all course credit and a letter designation of WF (Withdrawal Fail) or WP (Withdrawal Pass) will be placed on the student's transcript.
- A completed Schedule Change Form should be returned to the student's guidance counselor.
- The counselor will meet with the student upon review of the student's credits and schedule.

Work Release Program

The Uniontown Area School District recognizes that our students have diverse needs and promotes a work release program for students who want to experience the work environment. The program is available to seniors who are on track to graduate and who have a work permit issued by the district. Interested students should see their assigned guidance counselor for enrollment in the program.

CSIU Parent and Student Portal

The CSIU Portal is a web-based service offered to both parents and students by the Uniontown Area School District. It provides everyone with on-line access to data related to a student's progress. The information shown includes grades, attendance, homework assignments, school information, and email interaction with teachers.

UNIONTOWN AREA HIGH SCHOOL LISTING OF COURSES

Business, Computer, and Information Technology

470 Graphic Design and Illustration	480 Website Design
471 Accounting 1	482 Photoshop
472 Accounting 2	484 Entrepreneurship
475 Video Production	485 Tomahawk Talk
476 Computer Applications 1	487 Career Development
477 Computer Applications 2	488 Personal Finance
478 Media Internship	489 Introduction to Computer Science

470 Graphic Design and Illustration

Credit: .5
Prerequisite(s): Computer Applications I
Grade Levels: 10-12

Students will learn about the most important features of graphic design and illustration. They will learn techniques for creating text effects and use the pen tool to draw and compose a complex illustration. Students will explore projects such as logos, road signs, posters, tickets, stationary, web banners, web buttons, and desktop backgrounds.

471 Accounting 1

Credit: .5
Prerequisite(s): None
Grade Levels: 9-12

Are you good with computing numbers and tracking where your money is going? Whether you dream of working for a large company or envision owning your own business, accountants are in demand. Our Accounting 1 course provides students with the opportunity to explore basic accounting systems, processes, and the resulting financial statements. Additionally, the students will closely examine accounting rules, procedures, and controls that are applicable to cash, receivables, and inventory. Included in this program is accounting for investments in long-term productive assets. Our curriculum provides a thorough introduction to financial accounting and the responsibilities one should be prepared for in the world of accounting

472 Accounting 2

Credit: .5
Prerequisite(s): Accounting 1
Grade Levels: 9-12

Our Accounting 2 course provides students with the opportunity to further their exploration to more complex accounting systems, processes, and the resulting financial statements. Additionally, the students will continue to closely examine accounting rules, procedures, and controls that are applicable to cash, receivables, and inventory. Included in this program is accounting for investments in long-term productive assets. Our curriculum provides a thorough examination of financial accounting and the responsibilities one should be prepared for in the world of accounting

475 Video Production

Credit: 1.0
Prerequisite(s): Computer Applications 1
Grade Levels: 9-12

In Video Production, students learn how to use camcorders, live broadcast equipment, media storage, script writing, shot composition, storyboards, audio, lighting, video and audio editing software. The class structure is studio-oriented and project-based. Projects include creating a documentary, public service announcement, commercial, live action event, how to instruction video, and videos with special effects. Students will work in groups and have staff jobs such as editors, script writers, news anchors, directors, producers, etc. Students will utilize Premiere Pro to edit videos, and NewTek Tricaster to produce the daily announcements. Exceptional work will be entered into state competitions. This is a semester course and the prerequisite to become a media center intern. Attendance at select after school events to capture footage may be required

476 Computer Applications 1

Credit: .5
Prerequisite(s): None
Grade Levels: 9-12

Introductory course in Microsoft Office using Word, Excel, Access and PowerPoint. This course also covers basic computer literacy and should be a pre-requisite for all other computer related courses in any department. Students learn how to create folders and save files accessing their home directory.

477 Computer Applications 2

Credit: .5
Prerequisite(s): Computer Applications I
Grade Levels: 9-12

Advanced course in Microsoft Office using Word, Excel, Access and PowerPoint.

478 Media Internship

Credit: .5
Prerequisite(s): Indicated interest and background experience using digital technology. Maintains a 3.0 overall GPA. Successful completion the Video Production Course and Photoshop. Excellent verbal and written communication skills, strong organizational skills, and the ability to take directives are essential.
Grade Levels: 10-12

This specialized course requires students to exhibit efficient application and practice with technologies featured in the Gismondi Center for Media Arts and throughout the school.

Students will be using software to interact with and produce projects.

Students enrolled in this course will use the professional video camera equipment within the studio and on location to film special events, assemblies and sporting events. This includes providing assistance as needed in all components of video/audio production, including sound, lighting, and camera, editing and post-production.

Interns will also perform other duties as requested by media center staff to ensure all necessary tasks are completed in a proficient manner that adheres to the quality expected.

Projects will require an ability to research, identify, and present applications that will enhance the learning experience of high school aged students.

480 Website Design

Credit: .5
Prerequisite(s): Computer Applications I
Grade Levels: 10-12

This course is an introduction to web design using industry standard web design software.

Students will design, create and publish a web site. Topics include creating web pages, hyperlinks, images, tables, page layout, forms, and polls. Students will create, design, and present their own website as the final project.

482 Photoshop

Credit: .5
Prerequisite(s): Computer Applications I
Grade Levels: 10-12

Digital Design is for any student who is interested in editing photographs and creating unique images. Photoshop is an image-editing program that uses a system of layers to manipulate objects within a document. In the units, students will learn how to work in the Photoshop software, use layers, make selections, incorporate color techniques, use filters, apply gradient, use paint tools, place type in an image, modify type with drop shadow and bevel and emboss, patch an image, smudge colors, and use a layer mask. Students will complete creative cases where they work with their own digital photographs.

484 Entrepreneurship

Credit: 1.0
Prerequisite(s): Computer Applications I
Grade Levels: 10-12

Students learn the step-by-step process of starting and running a business. Students will explore entrepreneurship, incorporate related economic concepts, and learn how to write a basic business plan. Students will manage and operate the in-house coffee shop. Microsoft Office will be integrated within the course projects.

485 Tomahawk Talk

Credit: .5
 Prerequisite(s): Computer Applications I
 Grade Levels: 10-12

The online school newspaper, Tomahawk Talk, provides a unique opportunity for students to cover and digitally photograph student activities, interview a variety of subjects, and write articles pertaining to the categories of student life, editorials, events, sports, and entertainment. The ability to write in a direct, active, and concise manner is necessary. The course is offered each quarter of the school year. Students will work in groups and have staff jobs such as editors, writers, designers, photographers, content managers, proofreaders, etc. Students will utilize the online software WordPress to manage the online content as well as social media outlets to advertise events. Video interviews will also be conducted giving students the opportunity to edit content utilizing Adobe Premier Software.

487 Career Development

Credit: .5
 Prerequisite(s): Computer Applications I
 Grade Levels: 10-12

Students will discover the importance of choosing a career that matches their interests, personality, skills, and values. They will learn about themselves through activities and assessments. Students will also find out how career events, job shadowing, internships, and service learning can help them make career decisions. As students explore current and future workforce and workplace trends, students will learn how technology, workforce diversity, and global markets influence career options. Microsoft Office will be integrated within the course projects.

488 Personal Finance

Credit: .5
 Prerequisite(s): Computer Applications I
 Grade Levels: 10-12

Students will discover new ways to maximize their earning potential, develop strategies for managing financial budgets and records, explore skills for the wise use of credit, and gain insight into the different ways of investing money. Microsoft Office will be integrated within the course projects.

489 Introduction to Computer Science

Credit: 1
 Prerequisite(s): Algebra I
 Grade Levels: 9-12

Computer Science and computational problem solving are fundamental skills for engaging the 21st-century marketplace of ideas and economies. We believe that all students should have the opportunity to learn these skills as they will use them in whatever career they are likely to enter. The course provides its own browser-based Integrated Development Environment (IDE) that the students will use to create and run their programs. It encompasses an editor and compiler, a custom graphics package, and an auto grader that is capable of grading not only textual problems and solutions but also a broad range of graphics problems and solutions.

General Education

050 Work Experience

300 SAT Prep

050 Work Experience

Credit: No Credits Awarded
 Prerequisite(s): None

Grade Levels: 12

Work Release utilizes workplaces as learning environments in the educational process by making employers, students, and educator's partners in providing opportunities for students to participate in a work-based learning situation. An effective relationship between business, school, parent, and student results in benefits to all involved.

300 SAT Prep

Credit: .5

Prerequisite(s): College bound students. Successful completion of a Geometry course is recommended.

Grade Levels: 11 and 12

SAT Prep is a nine-week elective course designed to help prepare students for the SAT test. In addition to reviewing the basic verbal and mathematical skills assessed on the SAT test, students have access to test-taking strategies specific to the exam, real student work samples with explanations. Students will spend nine weeks working on the verbal and writing component of the SAT and also working on the mathematics component of the SAT.

Art

701 Art I-2D

708 Advanced Ceramics

702 Art I-3D

710 Art Portfolio

707 Ceramics

701 Art I-2D

Credit: .5

Prerequisite(s): None

Grade Levels: 9-12

This is a studio course involving the incorporation of the elements and principles of art, and the concepts of art history and aesthetics. Emphasis is placed on the creative application of these ideas in a variety of visual media. The course is designed for students who have a definite interest in the making visual fine arts. Reading, writing and math are naturally integrated as students inquire, investigate, make choices and reflect on art making and finding their creative vision.

702 Art I-3D

Credit: .5

Prerequisite(s): None

Grade Levels: 9-12

This course places more emphasis on creative problem solving and further development of the skills and applied knowledge. New technical skills in two - and three-dimensional processes are introduced. Art history and aesthetics are incorporated into all units. Individual styles will be developed via practice, research, writing exercises, discussion, and critique. Emphasis is placed on the creative application of these ideas in a variety of visual media. The course is designed for students who have a definite interest in the making of visual fine arts. Reading, writing and math are naturally integrated as students inquire, investigate, make choices and reflect on art making and finding their creative vision.

707 Ceramics

Credit: .5

Prerequisite(s): None

Grade Levels: 9-12

In this course students will learn the basics of creative ceramics, by exploring this versatile medium in the context of the elements of art, principles of art, art history and cultural ideas, and concepts of art criticism and aesthetics. Reading, writing and math are naturally integrated as students inquire, investigate, make choices and reflect on art making and finding their creative vision. From throwing a vessel on the potter's wheel to hand building and sculpting, students will be able to create functional and beautiful pieces that will last for years to come. The course is designed for students who have a definite interest in the making of visual arts and have a willingness to get their hands dirty.

708 Advanced Ceramics

Credit: .5
Prerequisite(s): Ceramics
Grade Levels: 9-12

This course extends the learning of Ceramics. Reading, writing and math are naturally integrated as students inquire, investigate, make choices and reflect on art making and finding their creative vision. Students will continue to hone their craft, explore new forms, and work in a series. An exhibit of the works created is a requirement.

710 Art Portfolio

Credit: .5
Prerequisite(s): Previous Art or Ceramics Course
Grade Levels: 9-12

This course is for Juniors and Seniors who are planning to apply to a post-secondary Art program and/or have plans for an arts related profession. Students will focus on the creation of a 10-12-piece Art portfolio within a theme of their choosing. These can be created in any available 2D or 3D media. Individual styles will be developed via practice, research, writing exercises, discussion, and critique. An exhibition of the works created is a requirement.

Music

741 Marching Band

746 Spring Chorus

742 Concert Band-Winter

747 Piano

743 Concert Band-Spring

751 Musical Theater

745 Winter Chorus

752 Musical Theory

755 Guitar

741 Marching Band

Credit: .5
Prerequisite(s): Previous instrumental experience. Drummers and auxiliary members must try out. Must attend band camp prior to the start of the school year.
Grade Levels: 9-12

Marching Band is open to instrumentalists with previous playing experience and auxiliary members. The Marching Band is active during the fall and spring months and performs at all football games in addition to various parades and civic functions.

742 Concert Band-Winter

Credit: .5
Prerequisite(s): Previous instrumental experience
Grade Levels: 9-12

Concert Band-Winter rehearses during the 2nd nine weeks The Concert Band's main performance is the holiday concert. Attendance at each will be mandatory for all members.

743 Concert Band-Spring

Credit: .5
Prerequisite(s): Previous instrumental experience
Grade Levels: 9-12

Concert Band-Spring rehearses during the 4th nine weeks The Concert Band's main performance is the spring concert. Attendance at each will be mandatory for all members.

745 Winter Chorus

Credit: .5
Prerequisite(s): None
Grade Levels: 9-12

This group is organized as the basic element in the vocal music program and the foundation for more specialized work in the advanced choirs. It involves sight-reading, tone production, voice placement and other fundamental singing techniques. Attendance at rehearsal and concert performance is required for those who select this course.

746 Spring Chorus

Credit: .5

Prerequisite(s): None

Grade Levels: 9-12

Spring Chorus emphasizes the study of the music of various periods and styles in order to widen the singer's familiarity with the choral repertoire. Spring Chorus performs for a variety of functions including graduation and spring concert in May. Choral Sessions will also include the fundamentals of rhythm, melody, harmony, and musical interpretation.

747 Piano

Credit: .5

Prerequisite(s): None

Grade Levels: 9-12

This class presents an elementary level knowledge of the piano keyboard and music reading. It is designed for students with no previous piano background.

751 Musical Theater

Credit: .5

Prerequisite(s): None

Grade Levels: 9-12

This course introduces the fundamentals of musical theater. The course is designed primarily for students planning to study theater at the post high school level, or who wish to further their understanding of the fundamentals of musical theater.

752 Musical Theory

Credit: .5

Prerequisite(s): None

Grade Levels: 9-12

This class introduces a basic fundamental level of music theory. The course is designed for students who are planning to pursue any type of musical career, or who wish to further their understanding of basic music notation and composition.

755 Guitar

Credit: .5

Prerequisite(s): None

Grade Levels: 9-12

This class presents an elementary level knowledge of the guitar and music reading. It is designed for students with no previous guitar background.

Physical Education

900 Physical Education/Health

916 Lifeguarding

901 Aquatics

900 Physical Education/Health

Credit: .5

Prerequisite(s): None

Grade Levels: 9-12

Physical Education is geared to the immediate needs of the student and works to instill values for lifetime benefits and enjoyment. The course has the purposes of developing good attitudes toward physical activity, developing recreational values and establishing wholesome habits and participation. The health component of the course covers vital topics such as drug abuse, CPR, AED machine operation, and mental health initiatives while serving the function of initiating a consciousness of and appreciation for practices of healthful living that will continue to be effective throughout the life of the student.

901 Aquatics

Credit: .5

Prerequisite(s): None

Grade Levels: 9-12

In Aquatics, the objective is to provide the individual with skills for lifetime benefits and enjoyment. The course includes the learning of strokes, rescue techniques, snorkeling, diving,

and water games. Students will also learn the basics of CPR and how to properly use an AED machine.

916 Lifeguarding

Credit: .5
 Prerequisite(s): Red Cross skill test, Minimum 15 years of age, Aquatics teacher recommendation, Aquatics
 Grade Levels: 10-12

The American Red Cross Lifeguarding program is to provide entry-level lifeguard participants with the knowledge and skill to prevent, recognize and respond to emergencies and to provide care for injuries and sudden illnesses until emergency medical services (EMS) personnel arrive and take over. Students will have to contribute a portion of the cost for materials and certification.

Language Arts	
112 Academic English 9	134 Advanced Placement Language
114 Honors English 9	143 Academic English 12
122 Academic English 10	144 Advanced Placement Literature
124 Honors English 10	158 Speech
133 Academic English 11	159 Journalism

112 Academic English 9

Credit: 2
 Prerequisite(s): Language Arts 8
 Grade Levels: 9

Academic English 9 concentrates on further developing skills in reading, writing, speaking, and listening. The literature component includes exposure to the short story, drama, novel, poetry, and nonfiction with emphasis on literary elements and literary devices. Composition utilizes the writing process to prepare narrative, expository, and persuasive essays.

114 Honors English 9

Credit: 1
 Prerequisite(s): An A in Language Arts 8 and Advanced PSSA scores
 Grade Levels: 9-12

Honors English 9 is designed for the student with a strong foundation in reading and writing skills as well as a desire to emphasize Language Arts study in future high school years. Students will focus on the study of the four literary genres, and advanced writing techniques. The rigorous program includes in-class, out-of-class, and independent study.

122 Academic English 10

Credit: 1
 Prerequisite(s): Academic English 9
 Grade Levels: 10

Academic English 10 is designed to prepare students to take the Keystone Literature Exam. The course refines language arts skills developed in the freshman year. This class includes a study of poetry, drama, nonfiction, and the novel to investigate and evaluate literary style. Writing instruction covers narrative and expository writing with emphasis on domain scoring. Academic English 10 requires students to prepare and submit a letter of intent, a component of the senior project graduation requirement.

124 Honors English 10

Credit: 1
 Prerequisite(s): An A in English 9 or successful completion of Honors English 9
 Grade Levels: 10

Honors English 10 combines intensive reading and analysis in major literary genres while preparing students to take the Keystone Literature Exam. The close study of literature provides the basic materials for informative, persuasive, and narrative composition. Emphasis on the development of writing skills will prepare the students for success in AP Language and Composition. Students will also continue preparation for the senior project with the preparation and submission of the letter of intent.

133 Academic English 11

Credit: 1
Prerequisite(s): Academic English 10
Grade Levels: 11

Academic English 11 emphasizes reading/writing skills that align with established state standards. Reading and writing skills are enhanced through the study of American literature. Facility in writing skills will be achieved through performance tasks related to components of literature studied, such as short stories, poems, and drama. Research skills are stressed through the completion of a research paper, which is required for course completion. The student continues progress on the senior project with a speech requirement. The student will be exposed to a variety of instructional methods such as task completion and cooperative learning.

134 Advanced Placement Language

Credit: 1
Prerequisite(s): An A in English 10 or successful completion of Honors English 10 and Advanced Keystone Literature Exam score.
Grade Levels: 11

Students are actively involved in the advancement of their reading, writing, speaking, and listening skills. Students are expected to exceed the established state standards in these skills. American literature is the primary component of the course. Students and teacher will use a variety of techniques to accomplish these goals. Students may opt to take the Advanced Placement Language Exam for college credit at the completion of the course. Progress will continue toward the successful completion of the senior project with completion of a research paper.

143 Academic English 12

Credit: 1
Prerequisite(s): Academic English 11
Grade Levels: 12

Students will study literary and historical development of English literature through various genres to include poems, short stories, and drama. In addition, the student will construct a resume and cover letter and compose several multi-paragraph essays. British literature is the primary component of the course. English 12 also requires students to successfully complete the senior project as a graduation requirement.

144 Advanced Placement Literature

Credit: 1
Prerequisite(s): An A in English 11 or successful completion of Advanced Placement Language and Advanced Keystone Literature Exam score.
Grade Levels: 12

AP Literature focuses on an intensive study of literature and composition. The course includes investigation of novels, drama, and poetry. Compositions range from focused daily journal writing to complex essays analyzing literary elements and/or style. Students may opt to take the Advanced Placement Literature Exam for college credit at the completion of the course. Successful completion of the senior project is a requirement for the course.

158 Speech

Credit: .5
Prerequisite(s): None
Grade Levels: 10-12

Speech is a course that will provide skills to enable effective oral communication in a variety of situations. Preparation and delivery skills are developed through individual, partnered, and group tasks in a series of progressively longer weekly presentations. Informational, narrative, and persuasive techniques are utilized as students write and deliver speeches.

159 Journalism

Credit: .5
Prerequisite(s): None

Grade Levels: 10-12

Journalism is a course that instructs students in the techniques and style of journalistic writing. They will be shown how to write in a more direct, active, and concise manner than what is typically done for English essay assignments. Informative techniques are emphasized, with a small unit on persuasive editorials. Group work and video journalism will be included.

Mathematics

306 Algebra I (9)	319 Algebra II
307 Algebra II (9)	320 Academic Math Concepts
308 Geometry 9	321 College Algebra
309 Pre-Algebra 9	322 Advanced Placement Calculus I
310 Algebra 10	323 Advanced Placement Calculus II
311 Algebra 11	324 Probability and Statistics
314 Geometry	327 Calculus
315 Consumer Math	328 College Trigonometry
316 Plane Geometry	329 AP Statistics I

306 Algebra I (9)

Credit: 2

Prerequisite(s): Placement based on previous math grades and PSSA results.

Grade Levels: 9

This course is structured to reinforce prior algebraic knowledge while providing a stepping-stone for students to continue their academic studies in mathematics. Topics covered will include order of operations, signed numbers, solving and graphing linear equations and compound inequalities with real life applications, and factoring. This course also serves to prepare students for the Keystone Algebra Exam.

307 Algebra II (9)

Credit: 1

Prerequisite(s): B in Algebra I (8) and a proficient or advanced score on the Keystone Algebra Exam.

Grade Levels: 9

Algebra II reinforces prior knowledge of Algebra and then builds upon that knowledge, enabling the student to advance to higher levels of mathematics. Topics include a comprehensive study of linear inequalities & equations (including graphing, interpreting, and real world applications), operations on polynomials, factoring, solving and graphing quadratic equations, and applications of quadratic equations (including the Pythagorean Theorem).

308 Geometry (9)

Credit: 1

Prerequisite(s): Algebra II (9)

Grade Levels: 9

Geometry 9 is an academic mathematics course. Geometry develops an understanding of the use of undefined and defined terms, the use of postulates and properties, the development of theorems, and the writing of direct and indirect proofs. Through selected activities, the student will increase their knowledge of geometric concepts and applications.

309 Pre-Algebra (9)

Credit: 2

Prerequisite(s): Placement based on previous math grades and PSSA results.

Grade Levels: 9

This course has the goal to prepare students for Algebra I through yearlong study. Topics covered will be the order of operations, solving equations, substitution, proportions, and basic central tendencies.

310 Algebra 10

Credit: 1

Prerequisite(s): Pre-Algebra (9)

Grade Levels: 10

This course that prepares students for the Keystone Algebra Exam. Topics covered include solving algebraic equations (multi-steps), solving linear inequalities on a number line, and an X-Y grid. Students will also learn to graph and write linear equations, solve system of equations, factor quadratic equations, and simplify polynomial expressions by factoring.

311 Algebra 11

Credit: 1
Prerequisite(s): Pre-Algebra (9)
Grade Levels: 11

This course prepares students for the Keystone Algebra Exam. The curriculum revisits topics covered in Algebra 10 and looks to further student understanding of concepts such as multistep algebraic equations and factoring.

314 Geometry

Credit: 1
Prerequisite(s): Algebra I
Grade Levels: 10-12

Geometry is an academic mathematics course. Geometry develops an understanding of the use of undefined and defined terms, the use of postulates and properties, the development of theorems, and the writing of direct and indirect proofs. Through selected activities, the student will increase their knowledge of geometric concepts and applications.

315 Consumer Math

Credit: 1
Prerequisite(s): Algebra 10 or VT Algebra 10
Grade Levels: 11-12

The primary goal of this course is to prepare students to be competent consumers in tomorrow's marketplace. Students participate directly and actively in the decision making of shopping, maintaining a car, buying a home, completing tax returns, and investing.

316 Plane Geometry

Credit: 1
Prerequisite(s): Algebra
Grade Levels: 10-12

Plane Geometry develops an understanding of the use of undefined and defined terms, the use of postulates and properties, and the development of theorems. Through selected activities, the students will increase their knowledge of geometric concepts and applications.

319 Algebra II

Credit: 1
Prerequisite(s): Algebra I
Grade Levels: 10-12

Algebra II reinforces prior knowledge of Algebra and then builds upon that knowledge, enabling the student to advance to higher levels of mathematics. Topics include a comprehensive study of linear inequalities & equations (including graphing, interpreting, and real world applications), operations on polynomials, factoring, solving and graphing quadratic equations, and applications of quadratic equations (including the Pythagorean Theorem).

320 Academic Math Concepts (AMC)

Credit: 1
Prerequisite(s): Algebra II and Geometry
Grade Levels: 10-12

This course is designed for students who want to further their mathematical knowledge to help prepare for college level courses and college placement exams. Students in AMC will continue their studies from Algebra II, expanding their knowledge of factoring, polynomials, and graphing and solving different types of equations. Other topics include matrices, exponential and logarithmic functions, conics, and probability and statistics.

321 College Algebra

Credit: 1

Prerequisite(s): Algebra II and Geometry

Grade Levels: 10-12

College Algebra provides the students with the opportunity to acquire increased levels of algebraic skills in preparation for advanced mathematics studies, college entrance and placement exams. Topics covered include an expanded study of Algebra II concepts, an introduction to the concept of function, graphing and analyzing functions, and solving systems of linear equations. Throughout the course students apply the skills that they have learned to solve real-life problems. This course can be taken for college credit through Mt. Aloysius College.

322 Advanced Placement Calculus I

Credit: 1

Prerequisite(s): College Algebra and College Trigonometry

Grade Levels: 11-12

Advanced Placement Calculus I consists of work that is comparable to calculus courses in colleges or universities. Students will work with functions represented in a variety of ways and understand the connections among these representations. Students will understand the meaning of the derivative in terms of a rate of change and local linear approximation and should be able to solve a variety of problems using the derivative. Students completing the course should continue on to Advanced Placement Calculus II. AP Calculus I together with AP Calculus II can be taken for college credit through Mt. Aloysius College.

323 Advanced Placement Calculus II

Credit: 1

Prerequisite(s): AP Calculus I

Grade Levels: 11-12

Advanced Placement Calculus II consists of work that is comparable to the last half of a college Calculus I course and most of the topics covered in a college Calculus II course. The emphasis of this course will be on integration and techniques of integration. Integrals will be used to solve a variety of problems. Students completing the course should continue on to Advanced Placement Calculus II. AP Calculus I together with AP Calculus II can be taken for college credit through Mt. Aloysius College.

324 Probability and Statistics

Credit: 1

Prerequisite(s): Geometry

Grade Levels: 10-12

Probability and Statistics is an elective course designed to prepare students for college level statistics. Topics covered will include basic concepts of probability, collection and organization of data, display of data by constructing various charts, and then using the data to make predictions.

327 Calculus

Credit: 1

Prerequisite(s): College Algebra and College Trigonometry

Grade Levels: 11-12

Calculus is primarily concerned with developing the students' understanding of the concepts of calculus and providing experience with its methods and applications. Topics covered include both derivatives and integrals, with the emphasis on derivatives. The course provides students with a solid basis in calculus fundamentals but it is not the equivalent of a college level calculus course.

328 College Trigonometry

Credit: 1

Prerequisite(s): Algebra II and Geometry

Grade Levels: 10-12

College Trigonometry is designed to provide higher-level mathematical skills in preparation for advanced mathematical studies. Topics covered include various aspects of the trigonometric functions, right triangle trigonometry, polar coordinates, logarithmic and exponential functions, and vectors.

329 AP Statistics I

Credit: 1
 Prerequisite(s): College Algebra
 Grade Levels: 10-12

The AP Statistics course is the equivalent to a one-semester, introductory, non-calculus-based college course in statistics. The AP Statistics I course covers the AP curriculum introducing students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes in the AP Statistics course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding.

Family and Consumer Sciences	
711 Family & Consumer Science I	715 Food Science and Nutrition
712 Family & Consumer Science II	716 Childhood Development
713 Living on Your Own	

711 Family and Consumer Science I

Credit: .5
 Prerequisite(s): None
 Grade Levels: 9-12

Family & Consumer Science I encompasses all aspects of Family Consumer Sciences. Studies of consumer management, parenting and child care, nutrition and food preparation, clothing and fashion choices, and interior design. Lab experiences in each include one garment construction and food preparation. The student will be responsible for the purchase of sewing supplies.

712 Family and Consumer Science II

Credit: .5
 Prerequisite(s): FCS I
 Grade Levels: 9-12

This class is a continuation of Family & Consumer Science I with a more in-depth look at each area of study. This will include managing living on your own, making the parenting choice, health and wellness, cooking across America and beyond.

713 Living on Your Own

Credit: .5
 Prerequisite(s): None
 Grade Levels: 9-12

Discovering skills to better prepare you for being on your own after graduation. Skills such as: choosing your personal living space, setting up a home, home maintenance, preparing foods, caring for clothes, preparing for job success, and managing your resources.

715 Food Science and Nutrition

Credit: .5
 Prerequisite(s): None
 Grade Levels: 9-12

Identifying the importance of healthful eating and making healthy choices. How to safely handle food, plan nourishing meals, and preparing those meals. Discovering how and why to prepare foods to be delicious and appealing.

716 Childhood Development

Credit: .5
 Prerequisite(s): None
 Grade Levels: 9-12

Designed to make students aware of the great responsibilities involved in parenting. The course takes them through deciding to parent, parenting in the most ideal situation, and the pregnancy period.

Technology Education

720 Yearbook

732 Manufacturing II

721 Drafting and Design

733 Manufacturing III

731 Construction

739 Agile Robotics

737 Manufacturing I

720 Yearbook

Credit: .5

Prerequisite(s): Computer Applications I

Grade Levels: 9-12

Provides a unique opportunity for students to design, compile, and market the school yearbook. The course is offered each quarter of the school year. Staff members must cover and digitally photograph all student activities. They are required to plan and organize content, digitize layouts, prepare and edit copy and creatively present the epic story of school activities. While much of the layout and design will be produced during the class time, students are required to gather ads, photograph pictures, and edit copy after school hours.

721 Drafting and Design

Credit: .5

Prerequisite(s): Computer Applications I

Grade Levels: 9-12

Drafting & Design exposes the student to the technological language and symbols used in the engineering and design industry. Through the drawing of various geometric, isometric, and orthographic shapes, using the conventional drawing tools and a computer aided drafting system; the students convey information of a technical nature. The students become familiar with the necessary tools of the drafting and design trade to produce mechanical, architectural, and CADD drawings.

731 Construction

Credit: .5

Prerequisite(s): None

Grade Levels: 9-12

Construction provides an in-depth study of construction and technological innovations. The course is designed for the student to work at their ability level and pace to construct several projects and research assignments.

737 Manufacturing I

Credit: .5

Prerequisite(s): None

Grade Levels: 9-12

Manufacturing I provides an overview of the many areas of the manufacturing industry. The course is designed for the student to work at their ability level and pace. Safety precautions are emphasized. The course is designed as a prerequisite for further studies in technology.

732 Manufacturing II

Credit: .5

Prerequisite(s): Manufacturing I

Grade Levels: 9-12

Manufacturing II further advances the study of construction and technological innovations. This metals based course is designed for the student to work at their ability level and pace to construct several advanced projects and research assignments. Safety precautions are emphasized.

733 Manufacturing III

Credit: .5

Prerequisite(s): Manufacturing II

Grade Levels: 9-12

Manufacturing III continues to dig deeper into the study of construction, technological innovations, and past inventions. This research-based course is designed for the student to

work at their ability level and pace to construct advanced projects, research ideas, and evaluate real world structures. Safety precautions are emphasized.

739 Agile Robotics

Credit: .5
 Prerequisite(s): Computer Applications I
 Grade Levels: 9-12
 Students will build and program agile robots. Robots will consist of Department of Defense VEX agile robots, and programming using the Easy C Pro software C language based programming software.

Science	
411 Earth & Space Science	432 Advanced Placement Chemistry I
419 Biology 11	433 Advanced Placement Chemistry II
420 Fundamentals of Biology	441 Applied Chemistry
421 VT Biology 10	443 Advanced Earth and Space Science
422 Academic Biology 10	444 Comprehensive Science Investigations
423 Academic Biology (9)	450 Advanced Placement Physics
424 Advanced Placement Biology I	451 Physics I
425 Advanced Placement Biology II	452 Physics II
428 Forensics	462 Anatomy and Physiology
431 Chemistry	

411 Earth and Space Science

Credit: 1
 Prerequisite(s): None
 Grade Levels: 9
 This course is designed to introduce and explain principles and concepts related to the physical environment. Units of study include topics incorporating applications and discussions on technology, the environment, and careers. Students will also encounter opportunities requesting their opinions about specific issues and how their science lessons correlate to their everyday experiences and society. Course objectives place emphasis on metric measurement, mathematical solutions to problems, critical thinking skills, writing skills, communication skills, research, and projects.

419 Biology 11

Credit: 1
 Prerequisite(s): Biology 10
 Grade Levels: 11
 Biology 11 is designed for 11th grade students and revisits the curriculum of Academic Biology. The course will prepare students to take the Keystone Biology Exam. Emphasis is placed upon developing problem solving, reading skills, analytical thinking and interpreting charts and graphs. Global health issues are included. Lectures, demonstrations, audiovisuals, and mini-labs help the student understand the interactions of life processes as other living organisms and physical factors in their surroundings influence them. Areas of study include the cell (structure, function, and division), disease, genetics, classification, environment and ecology. The main objective of this course is for the student to realize that mankind plays a key role in making the world a better place for all life forms.

420 Fundamentals of Biology

Credit: .5
 Prerequisite(s): Enrollment in Algebra I (9)
 Grade Levels: 9
 Fundamentals of Biology is a .5 credit science class designed to introduce and explain the principles of biochemistry and evolution to ninth grade students. The course will prepare students to gain a better understanding of biochemistry and evolution that will be revisited in the Academic Biology 10 course and serve to build a foundation of essential knowledge of biology in its various areas of specialization. It will also provide a framework in interpreting and applying information needed in solving problems related to living things and their environment.

Lectures, videos, activities and labs are designed to help the student gain a better understanding of the concepts being taught.

421 VT Biology 10

Credit: 1
Prerequisite(s): Earth and Space Science
Grade Levels: 10

VT Biology 10 is designed for FCCTI students. The course will prepare students to take the Keystone Biology Exam. Emphasis is placed upon developing problem solving, reading skills, analytical thinking and interpreting charts and graphs. Global health issues are included. Lectures, demonstrations, audiovisuals, and mini-labs help the student understand the interactions of life processes as other living organisms and physical factors in their surroundings influence them. Areas of study include the cell (structure, function, and division), disease, genetics, classification, environment and ecology. The main objective of this course is for the student to realize that mankind plays a key role in making the world a better place for all life forms.

422 Academic Biology 10

Credit: 1.5
Prerequisite(s): Earth and Space Science
Grade Levels: 10

Biology is a lecture / lab course designed to prepare students to take the Keystone Biology Exam. Emphasis is placed upon developing analytical thinking and communications skills. Areas of study include the cell (structure, function, division, and protein synthesis), genetics, and a survey of the six Kingdoms (archaebacteria, eubacteria, protist, fungi, plant, and animal). Technological and societal issues are also incorporated. Laboratory exercises (such as microscopy, dissection, and experimentation) are included in all areas of study.

423 Academic Biology (9)

Credit: 1
Prerequisite(s): Placement based on previous grades and PSSA performance
Grade Levels: 9

Academic Biology (9) is a lecture/lab course designed for college bound students. This course prepares students to take the Keystone Biology Exam. Emphasis is placed upon developing analytical thinking and communications skills. Areas of study include the cell (structure, function, division, and protein synthesis), genetics, and a survey of the six Kingdoms (archaebacteria, eubacteria, protist, fungi, plant, and animal). Technological and societal issues are also incorporated. Laboratory exercises (such as microscopy, dissection, and experimentation) are included in all areas of study.

424 Advanced Placement Biology I

Credit: 1
Prerequisite(s): Chemistry or AP Chemistry
Grade Levels: 11-12

AP Biology I is part one of a year-long course which is graded on a 5 point scale that is designed to be taken by students after the successful completion of both high school biology and chemistry. AP Biology includes those topics regularly covered in a college introductory biology course and differs significantly from the standards-based, high school biology course with respect to the kind of textbook used, the range and depth of topics covered, the kind of laboratory work performed by students, and the time and effort required of the students. The textbook used by AP Biology is also used by college biology majors and the kinds of labs done by AP students are equivalent to those done by college students. AP Biology is a course that aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. This course is designed to prepare students for the Biology College Board Advanced Placement Exam. This course can be taken for college credit through Mt. Aloysius College.

425 Advanced Placement Biology II

Credit: 1
Prerequisite(s): AP Biology I

Grade Levels: 11-12

AP Biology II is part two of a year-long course which is graded on a 5 point scale that is designed to be taken by students after the successful completion of both high school biology and chemistry. AP Biology includes those topics regularly covered in a college introductory biology course and differs significantly from the standards-based, high school biology course with respect to the kind of textbook used, the range and depth of topics covered, the kind of laboratory work performed by students, and the time and effort required of the students. The textbook used by AP Biology is also used by college biology majors and the kinds of labs done by AP students are equivalent to those done by college students. AP Biology is a course that aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. This course is designed to prepare students for the Biology College Board Advanced Placement Exam. This course can be taken for college credit through Mt. Aloysius College.

428 Forensics

Credit: .5

Prerequisite(s): Biology and Chemistry

Grade Levels: 10-12

Forensics is a half credit science elective designed to introduce and explain principles and concepts related to forensic science. It will focus on the scientific principles and laboratory methods forensic scientists use to solve problems. Areas of study include crime scene investigation, blood analysis, fingerprinting, arson and fire patterns, forensic drug analysis, hair and fiber analysis, polymers testing, chromatography, DNA analysis, forensic anthropology, and ballistics. Careers in forensic science are also explored. Instructional methods will include lecture, interactive computer based activities, and laboratory and other group activities. It should be emphasized that this is a science elective and does not count toward science requirement credits.

431 Chemistry

Credit: 1

Prerequisite(s): Biology, Algebra II (recommended)

Grade Levels: 10-12

Chemistry develops the basic concepts of a general chemistry class for college bound students. Major topics include atomic structure and atomic theory, the periodic law and the periodic table, chemical bonding, chemical composition, gas laws and the kinetic molecular theory. Laboratory experiments are correlated with the lectures.

432 Advanced Placement Chemistry I

Credit: 1

Prerequisite(s): Chemistry

Grade Levels: 11-12

AP Chemistry I is the first of a two-part program and combined with AP Chemistry II. The courses are designed to be the equivalent of first year general college chemistry. The advanced topics to be covered include: atomic structure, stoichiometry, gases and kinetic theory, liquids & solids, and solutions. Due to the depth of topics covered, independent study time required, and the laboratory work, this course is recommended only for students who have been very successful in previous science and math courses. This course can be taken for college credit through Mt. Aloysius College.

433 Advanced Placement Chemistry II

Credit: 1

Prerequisite(s): Advanced Placement Chemistry I

Grade Levels: 11-12

AP Chemistry II is a continuation of AP Chemistry I. The courses are designed to be the equivalent of first year general college chemistry. The advanced topics to be covered include: acids and bases, equilibrium, kinetics, thermodynamics, electrochemistry, nuclear chemistry and brief introduction to organic chemistry. Due to the depth of topics covered, independent study time required, and the laboratory work this course is recommended only for students who have been very successful in previous science and math courses. This course can be taken for college credit through Mt. Aloysius College.

441 Applied Chemistry

Credit: 1
Prerequisite(s): Biology
Grade Levels: 11-12

Applied Chemistry develops the basic concepts of chemistry for the non-college bound student. Major topics include the composition of matter, atomic structure and theory, the periodic table, chemical bonding, chemical composition, gas laws and the kinetic molecular theory. Laboratory experiments are correlated with the lectures.

443 Advanced Earth and Space Science

Credit: 1
Prerequisite(s): Earth and Space Science, Biology, and Chemistry
Grade Levels: 12

This course focuses on the structure and development of the earth over time, earth history and evolution of species, meteorology, and astronomy. This course includes units on weather prediction, the water cycle, atmosphere and climate, plate tectonics, earthquakes and volcanoes, structure and formation of the universe, with emphasis on understanding how each of these concepts interact with, and affect, life on earth. Student progress is monitored through class work, comprehensive midterm and final exams, and student projects.

444 Comprehensive Science Investigations (CSI)

Credit: 1
Prerequisite(s): Earth and Space Science, Biology, and Applied Chemistry
Grade Levels: 12

This is a course for seniors utilizing everyday examples of scientific principles, problem solving, and making connections between science, technology, and society. This course encompasses Chemistry, Physics, Biology, Earth Science, and Forensics.

450 Advanced Placement Physics

Credit: 1
Prerequisite(s): Physics I
Grade Levels: 11-12

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits.

451 Physics I

Credit: 1
Prerequisite(s): Chemistry, Algebra
Grade Levels: 11-12

This course is designed for students with a strong foundation in mathematics and the physical sciences. The format will include lecture, discussion, problem-solving, and laboratory work. Physics deals with such topics as mechanics, thermodynamics and light.

452 Physics II

Credit: 1
Prerequisite(s): Physics I
Grade Levels: 11-12

This course is a continuation of Physics I. Study includes the diffraction and interference of light, electrostatics, electricity, magnetism, and modern physics. Laboratory work and homework are an integral part of this course. This course can be taken for college credit through Mt. Aloysius College.

462 Anatomy and Physiology

Credit: .5
Prerequisite(s): Chemistry or Applied Chemistry and Biology
Grade Levels: 11-12

Anatomy/Physiology is a basic course that combines the study of body structure and body function. The major systems that operate together to carry out life's processes are studied. Emphasis is also placed on how the body maintains a stable environment. Relationships to familiar issues, problems, and experiences regarding healthy human bodies are stressed. **Dissection is required.** This course is particularly useful for students entering the medical or health-related fields.

Social Studies

213 Academic Civics and PA History	235 Advanced Placement American History II
214 Honors Civics and PA History	240 Economics
222 Academic World History	241 Sociology
223 VT World History	242 Problems of Democracy
224 Honors World History	244 Introduction to Psychology
232 Academic American History	246 Advanced Placement Psychology
233 VT American History	247 African-American History
234 Advanced Placement American History I	

213 Academic Civics and PA History

Credit: 1
Prerequisite(s): None
Grade Levels: 9

Civics/PA History is a detailed and informative study of what it means to be an American citizen. During this course, students will learn how our government was developed, how our government works, and why government is important on a federal, state, and local level. The Pennsylvania History segment of the course focuses on contemporary Pennsylvania History from the end of the Civil War to the present day.

214 Honors Civics and PA History

Credit: 1
Prerequisite(s): None
Grade Levels: 9

Honors Civics/PA History is an accelerated and more rigorous study of what it means to be an American citizen. During this course, students will learn how our government was developed, how our government works, and why government is important on a federal, state, and local level. The Pennsylvania History segment of the course focuses on contemporary Pennsylvania History from the end of the Civil War to the present day.

222 Academic World History

Credit: 1
Prerequisite(s): Civics and PA History
Grade Levels: 10

Academic World History exposes the student to the manner in which geographic, economic, political and cultural factors have shaped civilization. The idea of the interdependence and interrelations of nations is developed through the study of past, present and future relationships of selected nations.

223 VT World History

Credit: .5
Prerequisite(s): Civics and enrollment in the FCCTI
Grade Levels: 10

VT World History covers major world conflicts from World War I to present-day terrorism. Students will learn how conflict and cooperation among groups and organizations have influenced the history and development of the world and analyze strategies used to resolve conflicts in society and government.

224 Honors World History

Credit: 1
Prerequisite(s): Civics
Grade Levels: 10

Honors World History is an accelerated and rigorous course covering topics found on the Advanced Placement Examination. The class is an inquiry-oriented course, which begins with the Age of Reason and continued through the present. Emphasis is placed upon how and why events transpired in the political, social and economic aspects of world history.

232 Academic American History

Credit: 1
Prerequisite(s): World History
Grade Levels: 11

American History is a study of the historical development of the United States. The major premise of the course is the study of the nation's past which will give students an understanding of the democratic ideals that have helped form the American government and way of life from 1900.

233 VT American History

Credit: .5
Prerequisite(s): VT World History or World History and enrollment in the FCCTI
Grade Levels: 11

VT American History is a detailed and informative survey of United States History from 1920 to the present. The organization of the class will help students to readily understand the facts and the concepts that are presented and to accurately determine the cause and effect relationships that it develops.

234 Advanced Placement American History I

Credit: 1
Prerequisite(s): World History or Honors World History (recommended)
Grade Levels: 11

Advanced Placement American History I is an inquiry-oriented course, which begins with the exploration to industrial America in the late nineteenth century. Emphasis is placed upon how and why certain events transpired in the political, economic, social and religious aspects of American history. The structure of the course is discovery learning geared with an emphasis placed on note taking, the writing of essays, and interpretation of graphs, maps and documents.

235 Advanced Placement American History II

Credit: 1
Prerequisite(s): Advanced Placement American History I
Grade Levels: 11

Advanced Placement American History II is an inquiry-oriented course, which begins with urban society in the late nineteenth century and continues to present day. Emphasis is placed upon how and why certain events transpired in the political, economic, social and religious aspects of American history. The structure of the course is discovery learning geared with an emphasis placed on note taking, the writing of essays, and interpretation of graphs, maps and documents. The Advanced Placement Examination of the College Board is administered at the conclusion of the course.

240 Economics

Credit: .5
Prerequisite(s): None
Grade Levels: 12

This course provides a non-technical introduction to the basic concepts in economics, with a focus on the United States. Using a small number of fundamental economic concepts, this course provides a foundation for informed decision making regarding current economic debates through an introduction to the basic tools of micro- and macroeconomic analysis. Microeconomics deals with consumers, firms, markets and income distribution. Macroeconomics deals with national income, employment, inflation and money.

241 Sociology

Credit: .5
Prerequisite(s): None

Grade Levels: 12

Sociology studies human society and social behavior. Students will examine patterns of social life, make predictions about behavior and investigate other cultures. This course covers topics such as cultural diversity and conformity, social structure, social inequality, and social institutions like the family, education, and religion.

242 Problems of Democracy (POD)

Credit: .5

Prerequisite(s): None

Grade Levels: 12

Problems of Democracy places emphasis upon the structure and operation of the American system of government, while drawing comparisons to the other governments of the world. The student is also given a comprehensive view of the political nature of the American democracy. Emphasis is placed on an understanding of the issues of today's world and their possible solutions.

244 Introduction to Psychology

Credit: .5

Prerequisite(s): None

Grade Levels: 12

Introduction to Psychology is the study of the mind of man through observation and analysis of his behavior. Learning, memory, group dynamics, intelligence, personality, abnormal behavior, attitudes, perception and ecological psychology are presented in the course. Weekly activities, which increase self and others awareness, are also an important aspect of the course. This results in an understanding of basic psychological concepts, pertinent issues, and human actions.

246 Advanced Placement Psychology

Credit: 1

Prerequisite(s): None

Grade Levels: 12

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. The Advanced Placement Examination of the College Board is administered at the conclusion of the course.

247 African American History

Credit: .5

Prerequisite(s): None

Grade Levels: 12

African American History is designed to expose the student to the history of African Americans. It deals with the effect of the African American on the political, social, and cultural advances throughout American history, from first settlement to present day.

World Languages

501 French I

521 Spanish I

502 French II

522 Spanish II

503 French III

523 Spanish III

504 French IV

524 Spanish IV

505 French V

525 AP Spanish V

501 French I

Credit: 1

Prerequisite(s): None

Grade Levels: 9-12

French I is an introduction to the study of French vocabulary, grammar and conversation. Listening, speaking, reading and writing skills will be emphasized. The student will become acquainted with the customs and culture of various French speaking countries.

502 French II

Credit: 1
Prerequisite(s): French I
Grade Levels: 9-12

French II is an introduction to the study of French vocabulary, grammar and conversation. Listening, speaking, reading, and writing skills will be emphasized. The student will become acquainted with the customs and culture of various French -speaking countries.

503 French III

Credit: 1
Prerequisite(s): French II
Grade Levels: 10-12

French III is a continuation of the study of the French language. Reflexive verbs, irregular verb forms and tense will be introduced. Students will increase their vocabulary and French cultural knowledge. Writing as well as impromptu conversation receive an expanded emphasis.

504 French IV

Credit: 1
Prerequisite(s): French III
Grade Levels: 11-12

French IV is a continuation of the study of the French language and culture. Reading, comprehension, writing and speaking skills are further developed. Writing, as well as impromptu conversation, receive an expanded emphasis.

505 French V

Credit: 1
Prerequisite(s): French IV
Grade Levels: 11-12

French V concentrates on French grammar and verbs and on the expansion of conversational skills.

521 Spanish I

Credit: 1
Prerequisite(s): None
Grade Levels: 9-12

Spanish I is an introduction to the study of Spanish vocabulary, grammar and conversation. Listening, speaking, reading and writing skills will be emphasized. The student will become acquainted with the customs and culture of various Spanish-speaking countries.

522 Spanish II

Credit: 1
Prerequisite(s): Spanish I
Grade Levels: 9-12

Spanish II is an introduction to the study of Spanish vocabulary, grammar and conversation. Listening, speaking, reading, and writing skills will be emphasized. The student will become acquainted with the customs and culture of various Spanish-speaking countries.

523 Spanish III

Credit: 1
Prerequisite(s): Spanish II
Grade Levels: 10-12

Spanish III is a continuation of the study of the Spanish language. Reflexive verbs, irregular verb forms and tense will be introduced. Students will increase their vocabulary and Hispanic cultural knowledge. Writing as well as impromptu conversation receive an expanded emphasis.

524 Spanish IV

Credit: 1
Prerequisite(s): Spanish III
Grade Levels: 11-12

Spanish IV is a continuation of the study of the Spanish language and culture. Reading, comprehension, writing and speaking skills are further developed. Writing, as well as impromptu conversation, receive an expanded emphasis.

525 Advanced Placement Spanish V

Credit: 1
Prerequisite(s): Spanish IV
Grade Levels: 11-12

Spanish V concentrates on Spanish grammar and verbs and on the expansion of conversational skills. Students may also choose to take the CLEP test or the AP Spanish Language exam upon completion of this course.

AREA TECH SELECTION

951

Fayette County Area Career and Technical Institute

Uniontown Area High School students have the option of enrolling in the Fayette Area Career and Technical Institute (CTI) program during grades 10-12. This curriculum option allows students to attend classes at the Uniontown Area High School during mornings and then pursue training in a technical field at CTI in the afternoons.

Guidelines

Admittance will be based on academic performance, discipline record, interest in shops, and availability. All courses are open to male and female students. Review the Fayette County CTI program descriptions for entry-level requirements before requesting any particular program. All students must demonstrate appropriate behavior in working well with others and alone to accomplish tasks, without being a danger to themselves or other students. Possessing and maintaining a record of good attendance is also necessary. There is no guarantee of program assignment and the instructor is subject to change.

Construction Programs

Electrical Construction 

Credit: 3.5
Grade Levels: 10-12

From layout and assembly to installation, testing and maintenance of power systems, this program takes a broad-based training approach to preparing students for employment in the electrical industry. Through hands-on training and classroom instruction, students learn the electrical trade practices used in residential, commercial and industrial fields in accordance with the National Electrical Code. Specialty areas including the installation of high voltage lines and electrical distribution systems are also covered. Prospective students should possess the ability to read and interpret technical data, manual dexterity, and the ability to work with a great deal of accuracy and precision.

Certification: OSHA 10, PA Builders Assoc. Skills, Fork Lift Operator, PA Electrical Installers

Building Construction Trades 

Credit: 3.5
Grade Levels: 10-12

Skilled building construction professionals must have a general knowledge of many disciplines. Students are given the fundamentals of related carpentry, math, and blueprint reading, which is the basis for all construction trades. Students are also given adequate training on a variety of construction tools and machinery. A thorough knowledge of hand and power tools is necessary. Personal safety and overall job safety are stressed continually throughout the program. Prospective students should like to work with their hands and have a desire to work in many of the construction areas.

Certification: OSHA 10, PA Builders Assoc. Skills

Heating, Ventilation & Air Conditioning/Clean Energy

Credit: 3.5

Grade Levels: 10-12

Skilled HVAC Technicians are in great demand in today's busy building world. Students receiving training at the Fayette County Career & Technical Institute will have a solid entry level base for beginning a career in the HVAC industry. Emphasis on installation, service of residential, commercial, and industrial HVAC equipment will be attained. Also in today's energy efficient buildings it is necessary to maintain a high level of indoor air quality. These techniques will also be learned and practiced.

Certification: EPA 609 – Mobile Refrigerant, Flashshield, OSHA 10

Masonry

Credit: 3.5

Grade Levels: 10-12

Students in the Masonry Program receive instruction in four different areas of the trade. Brick/block laying, stonework, cement finishing, and tile setting make up the curriculum. Students learn from the ground up, both commercial and residential construction techniques and methods. Many aspects of masonry are covered including: Layout work, pouring footings, and various types of concrete finishes. Students learn the methodology of many types of masonry walls including, but not limited to brick, concrete block, stone and architectural tile in residential and commercial applications. Tile setting includes layout, materials, and mortars for walls and floors.

Certification: OSHA 10, PA Builders Assoc. Skills, NCCER Mason 1, NCCER Core, Fork Lift Operator

Service Programs

Agriculture

Credit: 3.5

Grade Levels: 10-12

Students learn the anatomy, physiology and well-being of farm animals and companion animals-breeds. This course will incorporate plants, greenhouse, soil science and Ag mechanization as well as plant cultivation and soil conservation. Instruction may also include Aquaculture and Hydroponics. Additionally, Students will learn the basic mechanics and maintenance of agricultural equipment. Prospective students should possess a strong desire to work outdoors, physical strength, stamina, and the ability to work with limited supervision.

Certification: OSHA 10, Fork Lift Operator

Cosmetology

Credit: 3.5

Grade Levels: 10-12

Our comprehensive program provides you with the tools to become a licensed professional. This specialized curriculum consists of 1,250 hours of instructions required by the Pennsylvania State Board of Cosmetology. Students learn the latest techniques in the care and treatment of hair, skin, and nails. They practice and perfect their skills on mannequins, then advance to performing hair and skin care services on actual customers. The program also offers instruction in salon operation. Prospective students should possess creativity, artistic ability, manual dexterity, physical stamina and good communication skills.

Certification: Cosmetology License, Barbicide

Culinary Arts

Credit: 3.5

Grade Levels: 10-12

There are many career opportunities waiting for you in the ever-growing food service industry. Through classroom theory and hands-on experiences in our fully equipped commercial kitchen and dining room,

you'll gain the skills and knowledge needed to be successful in this fast-paced, highly demanding field. Students learn the basics of food preparation used in most restaurants, banquet facilities, caterers and institutions. Advanced instruction covers specialty and gourmet cooking, menu planning, purchasing, and management. Potential students should possess the ability to work under pressure, physical stamina, and strong organizational and math skills.

Certification: Servsafe

Health Occupations

Credit: 3.5

Grade Levels: 10-12

The world of healthcare is booming and proves to be one of the fastest growing industries today. Because the field of healthcare is so expansive, there are many careers to choose from. This program will give you the opportunity to explore careers during your sophomore year along with medical terminology, anatomy and physiology and nursing skills. Your junior year you will start to form a foundation for any healthcare career you decide to pursue. Certified Nursing Assistant will be available your junior year if that is the pathway you have chosen. The career pathways being offered your Senior year are medical assistant, pharmacy technician, EMT, nursing (advanced standing for LPN), and health unit coordinator. These pathways will be structured as apprenticeships with a specified number of hours on the job training at the healthcare facility. These apprenticeships may lead to full-time employment after graduation or advanced standing in a Licensed Practical Nurse Program.

Certification: Certified Nurse Assistant, OSHA Healthcare, CPR

Technology and Manufacturing Programs

Commercial Art and Design

Credit: 3.5

Grade Levels: 10-12

This course is designed to prepare students for a career in this high demand field by pairing their creative and artistic talents with different types of media. From creation to production, students learn all aspects of the graphic design world. Students will be introduced to graphic design fundamentals, layout and design, typography, airbrushing, screen printing, cad-cut and heat press transfers, vinyl design graphics, and bindery. Desktop publishing and computer graphics have become an essential part of graphic communications. Students will use software applications such as (Adobe Creative Suite CS5) Adobe Photoshop, Indesign, Illustrator, Freehand, and Flexi-sign Pro. Prospective students should possess creativity, good English and spelling skills, good organizational skills, and the ability to pay attention to detail.

Certification: Adobe Photoshop CC

Engineering & Manufacturing/Integrated Production

Credit: 3.5

Grade Levels: 10-12

Engineers and manufacturers are the people who make and use technology that advances the world we live in. Students will gain access to robotics, 3d Printing, and supported training from companies such as Advanced Acoustic Concepts, Boeing, Gerome Manufacturing, and Chevron. This program will appeal to students who want to work with cutting-edge materials and use their knowledge of mathematics and multidisciplinary sciences to create products emerging from new technologies. This program is a springboard into many careers or engineering and technical college majors all the while fostering a critical thinking environment.

Certification: OSHA 10, Certified Production Technician, J-Std 001 – Soldering

Information Technology

Credit: 3.5

Grade Levels: 10-12

This program is designed for students wishing to pursue a career in this ever-changing and challenging field. Information Technology is designed to introduce students to the computer systems and software most commonly used by business. Instruction and hands-on training is provided in all aspects of computers including building, repair and maintenance. Students are also trained in most current Microsoft Office version available, a highly popular software package that includes Word, Access, Excel, and PowerPoint. Students experience programming by maintaining the School's website using HTML and other popular web page editing software. Students are exposed to basic networking and interactive, simulation software is used to prepare students for the A+ Certification test. Students also sit for their IC certification test.

Certification: PC Pro, Microsoft Technology Associate, Windows Operating System Fundamentals

Machine Tool Technology

Credit: 3.5

Grade Levels: 10-12

Skilled machinists are in great demand. The training you will receive in the Machine Tool Technology program can put you on the road to a successful career in this high growth industry. In a state-of-the-art facility, students use manual and computerized machining equipment to cut, mill, grind, or shape metal and non-metal materials. Whether utilizing traditional methods or more advanced techniques such as CNC, students are trained to produce machine parts with a high degree of accuracy. Prospective students should possess strong math skills, manual dexterity, mechanical aptitude, and the ability to solve problems.

Certification: NIMS

Welding/Automated Materials Joining Technology

Credit: 3.5

Grade Levels: 10-12

Skilled welders are in great demand. The Welding Program is designed to educate students to their highest level of competency in the welding field. Any student who works well with their hands, enjoys creating objects and taking pride in accomplishing tasks using their own talents should enjoy welding and working with metals. Upon completion of the three year program, the student will be able to enter the job market with a completers welding certificate, listing all phases of welding they have accomplished. They have an opportunity to enter welding contests sponsored by the American Welding Society and SkillsUSA, and earn a welder's certification. Students who are motivated, have good eye-hand coordination and good vision, with basic math skills should succeed in this program.

Certification: NCCER, AWS, ASME, OSHA 10

Transportation Programs

Automotive Collision and Repair/Automated Materials Joining

Credit: 3.5

Grade Levels: 10-12

The Fayette County CTI you can prepare for a rewarding and profitable career in automotive collision repair. Our program instructs students in the latest techniques and practices in the industry. You will study all phases of auto collision repair and restoration. Your skills will be put to the test as you complete work on demonstration and actual customer vehicles. Students also learn to estimate costs, prepare work orders, and how to manage an auto body shop. Prospective students should possess manual dexterity, mechanical aptitude, physical strength and stamina, the ability to pay attention to detail and complete projects with accuracy.

Certification: ASE, EPA 609 – Mobile Refrigerant

Automotive Mechanics

Credit: 3.5

Grade Levels: 10-12

With the continual advancements in automotive technology, the demand for skilled automotive technicians remains high. In the Automotive Mechanics Program, you will receive both classroom and

hands-on instruction in the repair and maintenance of today's cars and light trucks. Students utilize repair manuals, textbooks, and computerized equipment to diagnose, troubleshoot and repair malfunctions within a car's many operating systems. Upon completion of the course, students may also become licensed as state safety and emissions inspection mechanics. Prospective students should possess mechanical aptitude, manual dexterity, physical stamina, and the ability to solve problems.
Certification: ASE , EPA 609 – Mobile Refrigerant, OSHA 10

Diesel Mechanics

Credit: 3.5

Grade Levels: 10-12

This program prepares individuals to apply technical knowledge and skills to the specialized maintenance and repair of trucks, buses, and other commercial and industrial vehicles. The program includes instruction in diesel engine mechanics, suspension and steering, brake systems, electrical and electronic systems, preventive maintenance inspections, drive trains, HVAC systems, and auxiliary installation and repair.

Certification: ASE, EPA 609 – Mobile Refrigerant, State Category 1 & 2 Inspection License

Cooperative Education

Cooperative Education combines classroom study with planned and supervised paid vocational experience and selected employment assignments. It involves students pursuing their career objective while attending school through half-day sessions. Cooperative Education is a program established by the Pennsylvania Department of Education. The Cooperative Education program is designed to help the students understand and cope with the world of work while providing an educational experience through on-the-job training so the student learns while he/she earns. Cooperative Education also provides the employers in the community with responsible citizens who can be trained and skilled to meet the companies' desires and interests. This program promotes a close relationship with the community and the school in developing skills for a better place to live and work. This provides a pool of potential full-time employees who are trained to meet the companies' requirements and that are proven through part-time work. Their productivity results in better selection of entry-level personnel.

Cooperative Education is available in ALL Fayette CTI programs of study.



Program Requirements:

- Earn your H.S. Diploma
- Maintain a 2.5 GPA
- Pass NOCTI Exam
- Complete program Competencies

STATEWIDE ARTICULATION

SOAR programs of study prepare today's student for tomorrow's high demand and high wage careers. The Pennsylvania Department of Education (PDE) supports career and technical education students aligning their high school courses to a college program in order to complete a degree, diploma or certificate. SOAR is built on programs of study (POS) that incorporate secondary and postsecondary education elements and include coherent and rigorous academic and technical content aligned with Pennsylvania's challenging academic standards.



APPRENTICESHIPS

Apprenticeships offer pathways to career-ready skills, a paycheck and debt-free college credit. As an apprentice you will spend a determined amount of time in related training in the classroom, but more time will be on the job training at the sponsoring business earning a paycheck. This will enable you to complete your registered apprenticeship at a faster rate. Apprenticeships range from two years to four years and are the gold standard of work-based learning. These programs will bring you a future you have never imagined. Employers see apprenticeships as a powerful tool for finding and developing talent. Explore the apprenticeship opportunities offered at the FCCTI.



ADVANCED CAREER PROGRAMS

Advanced Career (AC) Programs are an innovative initiative of the Southern Regional Education Board. AC programs include an advanced curriculum that is designed to address a specific career area, and provide a programs of study that prepare students for careers and meaningful credentials or postsecondary certificates or degrees. The AC demanding curricula blends learning experiences that advance students' literacy, math, science and technical knowledge and skills, and strengthen the habits and mind for success. The courses are organized around authentic, hands-on projects requiring application of rigorous standards and 21st-century skills.



DUAL ENROLLMENT PROGRAMS

Dual enrollment is a unique opportunity for high school students to take college classes while earning their high school diplomas. Students are enrolled in both their high schools and partnering community colleges or other postsecondary institutions where they earn college credits. Students who participate in these programs can save tuition costs after graduation, complete their post-secondary degrees earlier, and reduce the stress of their first semesters at the collegiate level

