Tidioute Community Charter School

2026-2027
Middle School/High School
Course Descriptions Guide

January 12, 2026

Graduation Requirements
Grades 9-12

Curriculum Area	Required Grade	Credits Needed
Art	9	1.00
Language/Music Humanity	9-12	1.00
Philosophy	11-12	1.00
Intro. to Computer Science	9 - 10	1.00
Writing Skills	10	.50
Career & Financial Planning	11 or 12	.50
Electives	9-12	5.00
English	9-12	4.00
Health	11-12	.50
Math	9-12	4.00
Mentorship	12	.50
Physical Education	9-12	1.00
Science	9-12	4.00
History/Social Studies	9-12	4.00
Total		**28.00**

A mentorship is required for graduation. The Senior/career planning project/ Career Mentorship is included as a requirement. *Students will be responsible for the senior project even if they are not enrolled in English 12. PDE requires Career planning projects at all grade levels; reports will be submitted at grades 5, 8 & 11 on Career planning to the state.

History College Required Sequence

9th Grade
Geography
10th Grade
World History/ Civilization
11th Grade
U.S. History
*AP U.S. History
12th Grade
U.S. Government/Economics
*A.P. Govt. and Politics

History Career Sequence

9th Grade
Geography
10th Grade
World History/ Civilization
11th Grade
U.S. History
12th Grade
U.S. Government/Economics

Math College Sequence

9th Grade
Algebra I
10th Grade
Algebra II
Geometry
11th Grade
*Pre Calculus/Trigonometry
12th Grade
*Calculus
*Statistics
* AP Calculus

Math Career Sequence

9th Grade
Pre -Algebra, Algebra I
10th Grade
Algebra I or Remediation Algebra
11th Grade
Algebra I or General Math, Consumer Math
12th Grade
Geometry or Algebra II, General Math, Consumer Math

English College Sequence

9th Grade
English 9
10th Grade
English 10
Writing Skills
11th Grade
English 11
*Advanced Placement Literature
12th Grade
English 12
*Advanced Placement Composition

English Career Sequence

9th Grade
English 9
10th Grade
English 10
Writing Skills
11th Grade
English 11
12th Grade
English 12

Science College Sequence

9th Grade
Biology with a lab
10th Grade
Chemistry (College Emphasis)
*Anatomy & Physiology
*Advanced Biology
11th Grade
*Physics (College Emphasis)
*Advanced Biology
*Organic Chemistry
*Anatomy & Physiology
* College Course in an Advanced Physical Science
*AP Biology
Chemistry
12th Grade
*Advanced Biology
*Physics (College Emphasis)
*Organic Chemistry
*Anatomy & Physiology
* College Course in an Advanced Physical Science
*AP Biology
Chemistry

Science Career Sequence

9th Grade
Integrated Science
10th Grade
Applied Biology If the student passes their Keystone test they can pick from the following:Biological Principles of the Forest, Ecology, Wildlife Biology, General Science, Chemistry
11th Grade
Biological Principles of the Forest, Ecology, Wildlife Biology, General Science, Chemistry
12th Grade
Biological Principles of the Forest, Ecology, Wildlife Biology, General Science, Chemistry

** Electives should include two consecutive years of Spanish for any student considering post-secondary education/ University.

ART

Art Foundations II: Grade 7 **9 Week Class**

This course introduces students to the foundational elements of art and composition, including line, shape, form, value, and color. Students will explore how these elements are used to create balanced, expressive, and well-designed artworks. Through hands-on projects and guided instruction, students will develop technical skills, creative thinking, and visual problem-solving abilities. Formal art critique will be incorporated throughout the course to help students reflect on their work and the work of others using appropriate art vocabulary. Emphasis is placed on craftsmanship, creativity, and the completion of thoughtfully planned and finished works of art.

Art Foundations III: Grade 8 **9 Week Class**

In this course, students will expand their understanding of the elements and principles of art and design. Building on previously learned skills, students will create a variety of artworks that intentionally apply the elements of art while incorporating key principles of design, including balance, focal point, pattern and repetition, movement and rhythm, and proportion. Through guided projects and creative exploration, students will learn how thoughtful planning and design choices contribute to strong visual compositions. Emphasis will be placed on craftsmanship, effective use of design principles, and the completion of well-defined, finished works of art.

Art Fundamentals I/II: Grades 9-12/R **Yearlong 1.0 Credit**

This required humanities course introduces students to art history and the foundational concepts of visual art through both formative and contextual analysis. Students will learn how to examine artwork by considering formal elements, materials, function, cultural context, and historical significance. The course begins with ancient art and progresses chronologically through major artistic movements and periods, culminating in modern art.

While the primary focus is on art history and critical analysis, students will engage in selective hands-on experiences that support historical understanding and visual inquiry. These experiences may include working with a variety of media—such as papier-mâché, sculpture, pottery, painting, textiles, and mosaics—as well as integrating technology when appropriate. Through an expeditionary, inquiry-based approach, students will develop a well-rounded understanding of art across cultures and time periods, strengthening their ability to analyze, interpret, and discuss art within a broader humanities framework.

Art Concepts: **Grades 10-12/E** **Semester/.50 Credit**

This intermediate-level art course is designed for motivated students who are committed to the serious study of visual art. Students will independently plan, design, and create original artworks in a medium of their choice, developing a personal artistic direction with guidance and support from the instructor. Emphasis is placed on experimentation, creative risk-taking, and refining ideas through the artistic process.

Students will maintain a sketchbook to document research, planning, and reflection, and will prepare selected works for exhibition or portfolio review. Instruction will reinforce major artistic concepts while supporting individual growth in technical skill, originality, and problem-solving. The course also introduces students to potential art careers and expectations of college-level art study, encouraging thoughtful engagement in both creative practice and professional preparation.

Graphic Arts: Grade 10-12/E **Semester/.50 Credit**

This advanced, project-based course introduces students to the principles and practices of graphic design with an emphasis on audience, market demand, and effective visual communication. Students will use pixlr, a computer design program to create, format, illustrate, edit, revise, and produce digital artwork for real-world applications. Through hands-on design challenges, students will learn how design choices influence consumer interest and sales, and how to adapt work based on client and market wants and needs.

Students will collaborate with faculty, school organizations, and athletic teams to develop authentic apparel and promotional designs for use within the school community. As part of operating the student store, students will assist in the creation of goods used for school fundraisers and daily sales, gaining experience in production workflows, branding consistency, and quality control. Projects may be utilized by the school, classrooms, sports teams, and local organizations, providing students with meaningful experience in professional design practices. Emphasis is placed on creativity, collaboration, problem-solving, and the strategic use of digital design to meet the needs of a target audience.

Ceramics: Grade 9-12/E **Semester/.50 Credit**

Students explore three-dimensional art through hands-on ceramic techniques, including pinch, coil, slab, and wheel throwing. Instruction emphasizes proper studio practices, craftsmanship, and surface design through glaze application. Students will complete original ceramic projects that demonstrate technical skill and creative expression. Enrollment is limited to six students for individualized instruction and safe equipment use.

CAREER PLANNING

Career and Financial Planning: Grade 11 or 12/R **Semester/.50 Credit**

This class provides students the skills needed to make proper decisions for future careers and financial choices. Using Everfi-Financial Literacy, an interactive curriculum including 3D gaming, animations, and video, students will become certified in critical financial concepts. Topics discussed include: Consumer Skills, Smart Money Habits, Budgeting, Checking Accounts, Savings Accounts, Credit and Debt Basics, Education and Financial Aid, Exploring Jobs and Careers, Beginning Employment, and Insurance. Students will earn a certificate in financial literacy, be able to write checks, will complete a job application and resume, and will participate in a mock employment interview.

Mentorship: Grades 12/R **Independent/.50 Credit**

Students will mentor in a workplace, or several workplaces, of their choice to gain a realization of their own personal interests and assess the potential to develop a more definitive plan for future endeavors. Additionally, students will work towards understanding a successful transition from high school to the workplace or educational facility, and become prepared to be a contributing member of society. Students will complete an essay of their mentorship in the workplace which will include how the mentorship will help prepare for future personal or professional goals, research job duties, average work day information, required education/training/licensure, average salary/pay, and worksite location options. An in-class oral presentation may be required. (Monitored in Scholarship Writing. If a student does not take Scholarship Writing he/she will do this project independently).

Classroom Helper: Grades 10-12/E **No credit issued for this class**

This course allows any high school student the opportunity to work with a younger class alongside the teacher. Through this experience, the student becomes very familiar with the younger students while aiding them in their projects, helping students and learning the personalities of the students through behaviors in class. The mentoring student must have adequate knowledge and interest in education in order to properly help the multi-aged classes. As the students work together, they build rapport and a sense of trust with each other, and the outcome strengthens our school and leaves great reward for both high school students and younger students.(Must be passing all TCCS courses).

BUSINESS INFORMATION TECHNOLOGY

Computer Applications I: Grade 7/R **9 Week Class**

This is a nine week course that focuses on typing skills and Google Applications. The course uses instructional videos, text lessons, and direct instructions to explore Google Apps including Slides, Docs, and Sheets. Students will learn about email (how to compose, attach, etc) as well as editing and formatting text in Docs, creating presentations in Slides, and using Sheets to organize data. Students will learn how to enter formulas in cells, create tables, adjust width and heights of rows and columns, name cells, and cell reference. Students will also use an online program to learn proper typing form, increase typing speed and improve typing accuracy.

Computer Applications II: Grade 8/R **9 Week Class**

This is a nine week course that focuses on Digital Citizenship awareness and what makes a computer a computer. Educating students on what digital citizenship is and teaching them how to be good digital citizens is imperative to their success and well-being when engaged in technology use. Once students have established a complete understanding and awareness of safe online behavior and use of technology, they will learn about the history of computers, what makes a computer, and how computers work. Demonstrational videos, lab simulations (dissecting an actual computer), and project based learning are fundamental in this course and incorporate the concepts of marketing, business, and presentation skills.

Introduction to Computer Science: Grades 9-10 /R **Year Long/1 Credit**

This course is a full year computer science course introducing the basics of web design and programming concepts. Students learn the basics of HTML, CSS, JavaScript, and Python. Students create a culminating personal portfolio website showcasing projects they build throughout the course. We spend time on mobile applications, cyber security and expand our core knowledge. Mobile applications are becoming increasingly important to our consumption of media, news, social interaction, and learning. Students learn how to create mobile apps using React Native, build applications to run their own smartphones, and create an app to solve a specific problem! Students will learn cybersecurity topics such as software security, networking, system administration, and the basics of cryptography and programming.

Introduction to Entrepreneurship: Grade 9-12/E **Semester/.50 Credit**

Entrepreneurship will teach the skills and approaches to successfully evaluate and create new business opportunities. Emphasis is placed on projects and activity based learning. Students will engage in team building and collaborative activities, with the intent of increasing career and college readiness. Students will explore the complex tasks, expectations, and restrictions of individuals engaged in entrepreneurial activities. Students will progress through different methods for developing business ideas, the processes of starting a business, the acquisition of resources, and the key components of a business plan. There is a strong focus on project based learning and applications, as the final project will be launching a student run business. (Option for Certification at the end of the course)

Retail Management and Marketing: Grade 9-12/E **Semester/.50 Credit**

This course provides instruction in areas such as: salesmanship, advertising, visual merchandising, marketing human relations, cashiering, job interview skills, merchandising, store operations and customer service. The student is taught to evaluate methods for promoting merchandise, supervising employees, handling customer needs, and maintaining inventories. Students develop retail marketing skills through the operations of the School Store. Students gain additional hands-on experience by participating in the School Store through different roles such as Cashier, Greeter and Store Manager.

Introduction to Accounting and Finance: Grade 9-12/E **Semester/.50 Credit**

This course introduces accounting and finance for business and personal use. Topics covered include cash control, payroll, financial statements, the accounting cycle, loans, taxes, and fundamentals of bookkeeping. Using the “language of business,” students will assemble and analyze, process, and communicate essential information about financial operations.The basic financial statements are presented-balance sheet and income statement. Students are exposed to the recording, summarization,

and presentation of financial information and methods of analyzing these statements. Students learn accounting concepts and principles in a logical step-by-step manner. Significant emphasis is placed on application of both manual and computerized accounting, using QuickBooks and Google Sheets. Students will have the opportunity to earn a certification through Quickbooks. (Option for certification at the end of the course) Pre-Reg passed Algebra I.

Sports and Entertainment Marketing: Grade 9-12/E 9 Week Class/.25 Credit

Students will cover a broad area of marketing basics while diving deep into sports and entertainment marketing skills. This course has students cover all the newest trends in the marketing world. The class will explore the basic concepts and also apply a simulation project where students will actually prepare a sports and entertainment marketing plan. Each student will develop leadership and problem-solving skills, understand the importance of making ethical decisions, develop public speaking and presentation skills, proper social and business etiquette, analyze possible solutions to specific business problems, develop business leadership skills, and develop an increased understanding of the business world.

Digital Technology: Grade 9-12/E Semester/.50 Credit

This course introduces students to the essential technical and professional skills required in the field of Information Technology (IT). Through hands-on projects and written assignments, students gain an understanding of the operation of computers, computer networks, Internet fundamentals, programming, and computer support. Students also learn about the social impact of technological change and the ethical issues related to technology. Students will learn how to be "makers" by using various types of 3D modeling software and imaging equipment, printing actual physical objects that they have designed and modeled themselves, and participating in educational outreach in the university and the community.

Coding: Introduction to Programming: Grade 9-12/E 9 Week Class/.25 Credit

This course teaches the foundations of computer science and basic programming, with an emphasis on helping students develop logical thinking and problem solving skills. Students will also discover how to create and build their own website using HTML and CSS and learn basic and complex commands and sequences as they become familiar with programming languages like JavaScript and Python Programming. This course also covers data data collection methods, access rights, protocols, and security. Upon completion of the course students will have the option to take a test to be certified in HTML, Java or Python Language.

Business Communications and Ethics: Grades 9-12/E 9 Week Class/ .25 credit

Business Communication affects all aspects of our lives. This introductory course will teach students to communicate in a clear, courteous, concise, complete and correct manner on both the personal and professional levels. Competency will be developed in oral, written, interpersonal, technological, and employment communication. Listening skills will be incorporated throughout the semester. The overriding goal is to provide students with a solid communication base, so they are able to communicate effectively. This course will also address the legal, moral, and societal issues of ethical conduct in the business environment. Actual case studies are used to illustrate appropriate relationships among employers, employees, customers, stockholders, and other business stakeholders. Topics include: codes of ethics, laws and regulations related to ethics, conflict of Interest, and moral philosophies associated with ethical conduct.

Gaming Concepts: Exploring Interactive Media and Esports Topics/E Semester Class/.50 Credit
A project-based course about digital graphics, print media, computer animation, audio production, video production, web design, and other newly-emerging forms of digital media. Through digital media projects, students will learn how to facilitate meetings, serve as team leaders, manage project timelines, give and receive constructive criticism, and produce professional products.

AP Computer Science Principles (CSP)/E Year Long/ 1 Credit
This curriculum is a full-year, rigorous, entry-level course that introduces high school students to the foundations of modern computing. The course covers a broad range of foundational topics such as programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing. Students will be able to choose from Java or Python Language. This class is only available for students in 11-12 grade.The expectation and rigor of this course will therefore be high and the workload challenging. Discipline, focus, self-advocacy, and mature behavior in and out of class are expected. This course is an AP weighted course. Students must average an A in Introduction to Computer Science in order to take the AP course.

Video Production I Year Long/ 1 Credit
In this semester class, students will learn the basics of videography and modern filmmaking techniques, basic camera controls and functions, shot composition, video editing software and techniques, audio production, and the film and video production process. Students will create a variety of short projects including documentaries, commercials, music videos, and narrative films.

If offered as a full year, the second semester would be focused on the creation of longer film/video projects up to 20-30 minutes in length.

FAMILY AND CONSUMER SCIENCE

Family and Consumer Science: Grade 8/R Semester Class
Family and Consumer Science is designed to provide students with basic information and skills needed to function effectively within the family and within a changing, complex society. FCCLA, family and individual healthy relationships, housing, clothing and textiles, child development, nutrition and meal planning, preparation, and service, home management, money management and consumer education, and workplace and career skills are topics covered in Family and Consumer Science. This course is a lab course in which students are required to prepare food in the food and nutrition unit.

Family and Consumer Science: Grades 9-12/E Semester/.50 Credit
Family and Consumer Science elective class is designed to expand upon the skills and knowledge that students learned in the 8th grade Family and Consumer Science class. It goes into more depth. We focus on nutrition and food preparation and relationships and the workplace. We also do more in depth financial planning.

Child Development: Grade 10-12/E **Semester/.50 Credit**

This course focuses on the skills needed to guide the physical, intellectual, emotional and social development of children. Topics of study include pregnancy and prenatal development, birth and the newborn, types of growth and development, stages of development, rights and responsibilities of parents and children, needs of children, factors influencing the behavior of children, selection of child-care services, Health and safety of children, children with special needs, coping with crises, technology, and careers related to child development.

Food and Nutrition: Grade 10-12/E **Semester/.50 Credit**

This is a course that focuses on the development of skills needed to select, prepare, and serve food that meets nutritional needs of individuals and families. Units covered in his course include nutrition, weight control in the food consumer, technology, microwave cookery, kitchen, organization and equipment, safety and sanitation, menu planning, serving and eating food, food preparation labs, eating away from home, and job and careers in the field of food and nutrition. Food preparation labs are an integral part of this course.

Marriage and the Family/ Parenting: Grade 10-12/E **Semester/.50 credit**

This course studies the knowledge, skills, attitudes and behaviors all students need to participate in positive, caring, and respectful relationships in the family and with individuals at school. Topics include components of healthy relationships, roles and relationships; functions and expectations of various relationships; ethics in relationships; factors that impact relationships (e.g., power, conflicting interests, peer pressure, life events); establishing and maintaining relationships; building self-esteem and self-image through healthy relationships; communications styles; techniques for effective communication, leadership and teamwork; individual and group goal setting and decision making; preventing and managing stress and conflict; addressing violence and abuse; and related resources, services and agencies. We will also address personal and physical development, managing financial resources, and housing decisions. The parenting portion of this course is designed to assist students in developing an understanding of the parenting process and of parenting skills. Competencies developed in this course will be useful to anyone who lives with, associates with, or works with children. The parenthood decision, costs of having and raising a child, child growth and development, providing nurturance, guidance techniques prevention of child abuse and neglect, selection of child care services, and jobs and careers related to parenting are topics studied intis course.

SPANISH

Spanish I: Grades 9-12/E **Year Long/1 Credit**

Beginning students study language that can be used in everyday conversation. The course is taught using a communicative approach. Students begin to communicate in the target language through interpersonal speaking and writing, presentational speaking and writing, and interpretive reading and listening. Students communicate about such topics as greetings, telling time, school subjects, foods, family and friends, and leisure activities. This class is conducted in Spanish as much as possible and an emphasis is placed on becoming a competent communicator. Students expand their understanding of culture by studying about the countries of the Hispanic world. Vocabulary will focus on school, shopping, family, clothes, weather, simple foods found in restaurants and markets, holidays, and tourist activities. Credits are for grades 9-12 only.

Spanish II: Grades 9-12/E **Year Long /1 Credit**

Students will build on the basics learned in Spanish 1. The course is taught using a communicative approach. Students develop their communication in the target through interpersonal speaking and writing, presentational speaking and writing, and interpretive reading and listening. Students continue to learn about Hispanic countries through written materials, movies, speakers, group projects, computer activities, music, and games. Success in the course depends greatly on a student's willingness to participate and use the language in class. Credits are for grades 9-12 only. Spanish I is a prerequisite.

Spanish III: Grades 9-12/E **Year Long/1 Credit**

Students deepen their communication in the target language through interpersonal speaking and writing, presentational speaking and writing, and interpretive reading and listening. In addition to using the text, students use technology, watch films in the target language, give oral presentations and skits, read short stories, and write original stories in efforts to increase their knowledge and fluency in Spanish. Cultural topics focus on the customs and traditions of the people of the Spanish-speaking world. Spanish I and II are prerequisites. ***Weighted class***.

Spanish IV: Grades 9-12/E **Year Long/1 Credit**

The class is conducted in Spanish. Students communicate in the target language through interpersonal speaking and writing, presentational speaking and writing, and interpretive reading and listening to explore cultural themes. In addition to using the text, students use technology, watch films in the target language, give oral presentations and skits, read short stories, and write original stories in efforts to increase their knowledge and fluency in Spanish. Cultural topics focus on the customs and traditions of the people of the Spanish-speaking world. Spanish I, II, and III are prerequisites. ***Weighted class.***

Spanish taken in grades 7 and 8 are not credited for those particular grades. credit begins in grade 9.

HEALTH

Health 7/R **Semester Class**

This course focuses on the basic fundamentals of health and wellness and is based upon the National Health Education Standards. In this course, students are introduced to the Health Triangle which illustrates the three areas of health: social, emotional/mental, and physical. Content revolves around the skills and knowledge needed to develop and balance each of these three areas of health with the understanding that they are interdependent and ultimately, together, establish a degree of wellness. Students will have opportunities to investigate and learn about topics such as relationships with family and friends, peer pressure, risk behaviors, refusal skills, managing emotions, growth and development, reproduction, tobacco, alcohol and other drugs, diseases, safety and environment, and the importance of physical activity.

Health: Grade 11-12R **Semester/.50 Credit**

This course enables students to acquire the knowledge and skills necessary to promote the lifelong goals of health and wellness. The focus of the course is to empower each student with the capacity to obtain, interpret and understand basic health information and services, and apply that knowledge to make informed health enhancing decisions in their daily life. Content areas included within the study of Health Education would include the following: community health, consumer health, environmental health, family life (human sexuality, parenting, relationships, human growth and development), mental and emotional health, injury prevention, nutrition, personal health and fitness, prevention and control of disease, and substance use and abuse. Through the study of these conceptual areas, students will not only comprehend the principles related to health promotion and disease prevention, but will also be able to demonstrate their ability to use this knowledge in a healthful manner. Students will complete this course as health literate individuals.

LANGUAGE ARTS

English Literature 7: Grade 7/R **Year Long Class**

In this 7th-grade English literature course, students will explore a variety of texts, including stories, poems, and short novels, while learning to identify key themes, characters, and conflicts. They will practice analyzing how authors use language to convey meaning and gain insight into different perspectives. Through class discussions and activities, students will develop critical thinking skills and apply what they read to their own experiences and the world around them. By collaborating with peers, they will strengthen their ability to communicate and share ideas, setting a strong foundation for future literary studies.

Writing 7: Grade 7/R **Semester Class**

In this 7th-grade writing course, students will develop foundational skills in writing, focusing on crafting clear, engaging, and organized pieces. Through guided lessons and practice, students will learn to support their ideas with strong evidence and develop coherent arguments. They will also refine their understanding of grammar, punctuation, and spelling while expanding their vocabulary to communicate effectively. By the end of the year, students will be prepared to write confidently across a variety of genres, from persuasive essays to creative pieces, and be ready for the more complex writing tasks ahead.

English Literature 8: Grade 8/R **Year Long Class**

In this 8th-grade English literature course, students will delve deeper into complex texts, exploring novels, plays, and poetry that address important themes and real-world issues. They will analyze the use of literary devices, such as symbolism, irony, and tone, and learn to connect these elements to broader cultural and societal themes. As students engage in thoughtful discussions and collaborative projects, they will enhance their critical thinking and interpretive skills. By the end of the year, students will be able to analyze literature more deeply, draw connections to contemporary issues, and articulate their ideas confidently in both written and spoken form.

Writing 8: Grade 8/R **Semester Class**

In this 8th-grade writing course, students will refine their writing abilities by focusing on constructing well-supported arguments and producing persuasive, analytical, and narrative essays. They will learn to evaluate sources for credibility, improve their sentence structure and clarity, and engage readers with

strong introductions and conclusions. Vocabulary development remains a key focus, helping students express themselves more precisely and creatively. By the end of the year, students will be equipped with the tools to write with confidence, purpose, and critical thinking across different formats, preparing them for high school writing expectations.

English Literature 9: Grade 9/R **Year Long/1 Credit**

This yearlong ninth-grade English Language Arts course focuses on developing key skills to help students become critical readers, effective writers, clear communicators, and active listeners. Students will explore various literary genres, including short stories, poetry, drama, non-fiction, and novels, analyzing key themes, literary elements, and various writing styles. The writing process will emphasize focus, organization, conventions, content, and style, with opportunities for students to develop strong paragraph and multi-paragraph writing skills across various forms, such as informative, persuasive, and narrative essays. Students will also engage in creative writing exercises and consistently practice critical, creative, and reflective thinking. In addition, students will refine their understanding of Pennsylvania's ELA standards, focusing on language proficiency, comprehension, and application of writing conventions. The course will incorporate strategies for effective test-taking and ensure students are prepared to apply their skills in real-world contexts. An independent research project, following MLA style guidelines, will allow students to demonstrate their research and writing abilities in a comprehensive, scholarly manner.

English 10: Grade 10/R **Year Long/1 Credit**

This yearlong, integrated, tenth-grade course emphasizes interpersonal skills, research skills, public speaking, democratic processes, and oral interpretation. Fiction and nonfiction passages stimulate expository/technical writings and refinement of the oral and written processes. This course is also designed to improve students' oral communication skills, strengthen composition skills, and develop an understanding of the history of theater and an appreciation of dramatic world literature and American literature. Students refine Pennsylvania Language Arts proficiencies, essential skills, and content standards, as well as test-taking strategies to ensure excellence in application of skills.

Writing Skills 10: Grade 10/R **Semester/.50 Credit**

Writing skills is a writing course designed to help students develop proper sentence structure, punctuation, writing format, editing, and research writing skills. This course will instruct students in MLA, APA, and Chicago style writing. The overall goal is to prepare students for writing in the workplace, advanced writing courses, and college courses.

English 11: Grade 11/R **Year Long/1 Credit**

This course integrates the study of American literature, grammar, and composition (informative, technical, and creative), while refining oral communication skills. Students develop skills in conducting research and in writing research papers. Literature will include technical reading selections. This yearlong literature and composition course also focuses on the study of social, physical, metaphysical and historical influences on self-development. Through critical and creative thinking, independent inquiry, and affective responses, students produce a formal research paper, creative and expository writings, and group, class and individual projects relating to literature, philosophy and

rhetoric. Students refine Pennsylvania Language Arts proficiencies, essential skills, and content standards, as well as test-taking strategies to ensure excellence in application of skills..

English 12: Grade 12/R **Year Long/1 Credit**

This integrated, twelfth-grade course teaches final refinement of writing through research papers and other compositions. Through thematic units of study, including both literary and technical selections, students explore careers, lifelong learning, and societal issues. This course integrates composition, world literature, history, sociology, psychology, philosophy, and rhetoric. Students utilize skills in critical and creative thinking, independent inquiry, and affective processes to write essays of analysis and evaluation, present panel discussions and oral reports, participate in-group discussions, and work independently at problem solving and research.

Literature Keystone Prep.: Grades 10-11/R (if needed) **Year Long/1 Credit**

This is a course designed to prepare students for success on the Keystone Literature Exam. Students will practice test samples and will learn all of the PA state literature terms necessary for completing the exam. Students will also practice various short answer questions. As the course progresses students will be assessed through the CDT computer program to diagnose specific needs for success on the test. *One elective credit may be earned the first time class is taken. Does not replace a grade level English Class.*

AP English Language and Composition **Year Long/1.5 Credit**

This year-long, college-level AP English Language and Composition course focuses on analyzing nonfiction and some fiction to help students better understand rhetoric and how language works. Students practice close reading and write often, both formally and informally, to see how writers use rhetorical strategies to share their purpose, connect with readers, and create meaning. Lessons cover rhetorical analysis, argument, synthesis, and purposeful writing, using a variety of texts and media, such as essays, speeches, visuals, and film clips. Students are expected to read carefully, write regularly, and join thoughtful discussions, building independence and self-advocacy. This AP-weighted course follows the AP English Language and Composition guidelines and prepares students for college-level reading, writing, and critical thinking.

AP English Literature and Composition **Year Long/1.5 Credit**

This year-long, college-level AP English Literature and Composition course is organized by themes and focuses on close reading of a wide range of literature, including novels, plays, poetry, and short stories from the sixteenth century to the present. Students build skills in interpreting, analyzing, and arguing about literature by looking at how authors use structure, style, and language to create meaning. Writing lessons focus on analytical and argumentative essays, with regular timed writing and longer assignments that stress revision, mature style, and MLA formatting. Students join discussions, give presentations, and work together to better understand literature and its importance in different times and cultures. This AP-weighted course follows the AP English Literature and Composition guidelines and prepares students for the challenges of college-level literary study.

Creative Writing: Grades 9-12/E **Semester/.50 Credit**

This course helps students develop creative writing skills, primarily those utilized in creating poetry and prose. Through processes of reading, writing, and critiquing, students work toward preparing publication-quality manuscripts.

Gothic Literature/Mystery & Detective: Grades 9-12/E **Semester .50/Credit**
This course concentrates on analyzing and identifying the elements within gothic literature. It focuses on a distinguished set of characteristics that are present within each gothic selection that will be read. Students will have the opportunity to demonstrate their knowledge of the elements by writing their own gothic work. The Mystery & Detective portion of this class offers a historical, as well as a literary look at the genre of mystery writing. The students will study the various stages of the development of the genre, read a selection of short stories and novels that will illustrate the progression of the genre, and study the works as literary creations (plot, theme, characterization).

Scholarship Writing: Grade 12/E **Year Long/ 1 Credit**
In Scholarship Writing students will receive help organizing and writing scholarships. They will be given time to research scholarships, and will be taught effective writing strategies for attaining scholarships. This class is only for seniors because students cannot apply for scholarships until their senior year. Students will have the opportunity and guidance to work on their Mentorship Project.

Journalism/Science Fiction & Fantasy: Grades 9-12/E **Semester/.50 Credit**
The first section of this course prepares students for newspaper and yearbook staff positions. It emphasizes writing in various journalistic styles and offers training in layout, design, headline and caption writing, and desktop publishing. Students will produce and distribute a regularly scheduled newspaper. The second focus in this course seeks to familiarize students with written SF/Fantasy as literature rather than as a pop culture phenomenon. Students will learn the history of written SF/Fantasy, study specific major works (both novels and short stories) as literary creations, and become acquainted with literary criticism in the field. Due to its focus on intensive writing, this course will only be offered to students in 9^{th}-12^{th} grade.

Media and Society: Grades 9-12/E **Semester/.50 Credit**
This course focuses on visual literacy, advertising and moving images. Students will develop an informed and critical understanding of the nature of mass media, the techniques used by them, and the impact of these techniques. Students learn about different types of media and determine the difference between healthy and unhealthy media. Students learn to deconstruct photographs, magazine covers, bogus websites, news, toy commercials and advertisements.

Mythology: Grades 9-12/E **Semester/.50 Credit**
This course focuses on Classical Mythology. Classical Mythology focuses on the Ancient Greek and Roman stories about heroes, gods, and the universe and illustrates the influence of these myths on the art, literature, and culture of the modern world.

Public Speaking: Grades 9-12/E **Semester/.50 Credit**
This is a course that explores effective communication in one-to-one, small group and large group settings. Students analyze their communication skills and practice techniques to become more

effective. This course is designed to introduce the students to; communication concepts, theories, and skill which people use intrapersonal and in professional settings

Theater: Grades 9-12/E **Semester/.50 Credit**

Newspaper & Media Studies: Grades 9-12/E **Semester/.50 Credit**

This course introduces students to journalism, media literacy, and responsible communication. Students will learn how news and media are created by analyzing real articles, speeches, and current events, and develop skills in fact-checking, identifying bias, and evaluating sources. Instruction will also focus on journalistic writing, including article structure, interviewing, headlines, and clear, effective communication.

Students will apply these skills through hands-on projects, such as producing a school newspaper or magazine, assisting with school announcements, and contributing informational materials for the school community. The course emphasizes critical thinking, writing mechanics, and real-world communication skills.

YEARBOOK (Not an English credit)

Yearbook: Grades 9-12/E **Year Long/1 Credit**

Yearbook is available for enrollment during 9th, 10th, 11th and 12th grade years. Students may participate for one year or up to all four high school years if they choose. The students learn to utilize skills involving photography, layout and design. They provide input on planning the book from the beginning stages through publication. They have the opportunity to increase their computer knowledge, as the whole book is created on-line. Business skills, scheduling and time management skills are emphasized with responsibilities that include scheduling fall and spring picture days, yearbook sales, as well as advertisement sales and other fundraisers. Communication and social skills are addressed by working in school with peers, teachers, coaches and other staff. Outside of school, the students communicate with business owners and other community members in Tidioute and the surrounding areas.

MATHEMATICS

***All students must take Algebra I in either grade 9 or 10. All other mathematics classes will be teacher approved as core or elective**

Math Grade 7 **Year Long**

Building on concepts mastered in grades K-6, this course will allow the students to deepen their knowledge of the real number system among other concepts. They will show understanding and the ability to use number operations and order of operations including integers, exponents, and absolute value. Students will understand and use percentages, ratios, and proportions to solve real-world

applications. They will apply problem-solving strategies including tables, diagrams, calculator use, estimation, etc. Simplifying expressions and solving one and two-step equations (using distributive property) as well as inequalities will be a focus. Students will solve and write linear equations while also being able to represent those relationships in graphs and tables. Geometry components covered will include angles, triangles, and finding area and volume for 2 and 3D figures. Probability will be taught and students will determine odds of simple and compound events occurring as well as being able to determine theoretical and experimental probability of certain events. Students will understand appropriate scientific calculator use, and demonstrate familiarity with the basic properties of commutative, associative, distributive, and identity. Upon teacher discretion, students will continue the following year in Math 8.

Pre-Algebra: Grade 7 (Teacher approved) **Year Long**

Building on concepts mastered in grades K-6, this course will allow the students to deepen their knowledge of the real number system among other concepts. This course is more application based and involves an increased degree of higher-level thinking. They will show understanding and the ability to use number operations and order of operations including integers, exponents, and absolute value. Students will understand and use percentages, ratios, and proportions to solve real-world applications. They will apply problem-solving strategies including tables, diagrams, calculator use, estimation, etc. Simplifying expressions and solving one and two-step equations (using distributive property) as well as inequalities will be a focus. Students will solve and write linear equations while also being able to represent those relationships in graphs and tables. Geometry components covered will include angles, triangles, and finding area and volume for 2 and 3D figures. Probability will be taught and students will determine odds of simple and compound events occurring as well as being able to determine theoretical and experimental probability of certain events. Students will understand appropriate scientific calculator use, and demonstrate familiarity with the basic properties of commutative, associative, distributive, and identity. Upon teacher discretion, students will continue the following year in Pre-Algebra 8 or Advance to Algebra IA.

Math Grade 8 **Year Long**

Building on concepts mastered in grades K through 7, this course will begin with review and expansion of the real number system including working with numbers in scientific notation. Graphing ordered pairs located in all 4 quadrants of a coordinate plane and understanding and using slope to represent linear relationships on graphs, in an equation, and in tables will also be a main focus. Students will broaden their understanding of linear and non-linear relationships as it relates to real world applications. Students will solve multi-step equations, manipulate formulas and equations to represent different forms and work with functions including quadratic functions. Students will be able to graph quadratic functions and identify specific parts including but not limited to the minimum, maximum, y intercept, etc. Geometry will be a major focus where students will learn about different polygons and their angle measures, triangles and the Pythagorean Theorem, lines and transversals and the special angle pairs created by them. Students will evaluate whether given figures are congruent or similar and use ratios/proportions to find missing measurements. Transformations of figures on a coordinate plane as well as volume and surface area of 3-D figures will be included in this course. The course wraps up with data analysis. Upon teacher discretion, students will continue the following year in Pre-Algebra.

Pre-Algebra: Grade 8 (Teacher approved) **Year Long**

Building on concepts mastered in grades K through 7, this course will begin with review and expansion of the real number system including working with numbers in scientific notation. Graphing ordered pairs located in all 4 quadrants of a coordinate plane and understanding and using slope to represent linear relationships on graphs, in an equation, and in tables will also be a main focus. Students will broaden their understanding of linear and non-linear relationships as it relates to real world applications. Students will solve multi-step equations, manipulate formulas and equations to represent different forms and work with functions including quadratic functions. Students will be able to graph quadratic functions and identify specific parts including but not limited to the minimum, maximum, y intercept, etc. Geometry will be a major focus where students will learn about different polygons and their angle measures, triangles and the Pythagorean Theorem, lines and transversals and the special angle pairs created by them. Students will evaluate whether given figures are congruent or similar and use ratios/proportions to find missing measurements. Transformations of figures on a coordinate plane as well as volume and surface area of 3-D figures will be included in this course. The course wraps up with data analysis. Upon teacher discretion, students will continue the following year in Algebra I.

Algebra I: Grades 9 or 10/R College/Career **Year Long/1 Credit**

(This course counts are one of your four required math courses)

This course will study the internal relationships of the real number system. Students will be required to learn properties, definitions, and the terminology which describe these relationships, as well as the manipulative skills necessary to alter expressions, equations, and inequalities, as needed. Students will also learn how to represent relationships graphically, rational numbers, polynomials (variables, terms, and expressions) in all 4 operations, factoring, linear and quadratic equalities including systems of both. This course is for students with good arithmetic skills who are interested in post-secondary education. This course is open on approval of a math teacher. It is possible that this class will be made available to students of the middle school.

Pre-Algebra: Grades 9-10 (As requested by instructor) Career **Year Long/1 Credit**

(This course counts are one of your four required math courses)

The design of Algebra I C is the same as Algebra I using the same materials, texts, projects and assessments for the preparation of the Keystone exam. The students that are placed in this course are identified as struggling math students according to previous test scores and class grades. The idea of this course is to give the students the Algebra I course at a slower pace and have an additional lab with the course to reinforce the material and to fill the skills gap that may have occurred in previous years. Algebra 1C Lab is required with this course.

Keystone Algebra Essentials: Grades 10-11(if needed) **Year Long/1 Credit**

(This course count towards one of four required math course)

This class is designed for the students who have taken the Keystone exam and scored below basic or basic. The students will receive extra work and guidance on the topics that they need more work on based on the results from the Keystone exam. The goal of the class is individualized instruction on algebra content in order to pass the Keystone exam. *One math credit may be earned the first time class is taken.*

Consumer Math: Grade 12 (Or at request by instructor) Year Long/ 1 Credit
(This course counts toward one of four required math courses)
Consumer math will help students to learn life skills relative to consumer shopping, home purchasing, banking, investing, measuring, credit cards, transportation costs, computational skills, and will review math fundamentals for successful living.

Life Math: Grades 10-12 Career Year Long/ 1 Credit
(This course counts toward one of 4 required math courses)
Life Math is a course designed to help students see how math is used in their everyday world around them. Students will extend their knowledge of mathematics and develop appropriate consumer and career mathematical skills. Course content will cover such topics as basic operations, ratio, percent, algebra and geometry concepts, probability, measurement. This course gives students the opportunity to acquire the tools necessary for daily living as an individual and in family life. Students will create foods from recipes that had to be doubled and had limited measurement tools available causing them to convert measurements. Students will investigate the science of nutrition using the food pyramid and calculate calorie intake and calculate the use of coupons. Students will focus on geometric patterns and learn basic sewing techniques through hand stitching. Students will focus on scale drawings and measurement, while determining the appropriate amount of paint and carpeting needed.

General Math I/II: Grades 9-11 Career Year Long/ 1 Credit
(This course counts toward one of 4 required math courses)
General Math is a course that focuses on the review of basic mathematics skills. This includes the fundamental numeral operations of whole numbers, fractions, and decimals; ratios and proportion, percent, systems of measurement, and geometry. Algebra will be included at a basic level.

Advanced (Algebra II): Grades 10-12 College/Career Year Long/1 Credit
(This course counts toward one of 4 required math courses)
This course is open to any student who has passed Algebra 1A or 1C. This course is an expansion of algebra. Students will learn additional methods and investigate additional topics of algebra in both the real and imaginary number systems. Use of the graphing calculator may take place throughout the course. ***Prerequisite Algebra I***

Geometry: Grades 10--12 College/Career Year Long/1 Credit
(This course counts toward one of 4 required math courses)
This course is for students who have passed Algebra I and Algebra II. The concepts covered include mathematical reasoning, statistics and data analysis, algebraic functions, construction and similarities of polygons to transformation and symmetries, right angle triangles, circular functions, maximum/minimum values, sequences and series, and area under curve. Course also studies most of the principles of Euclidean geometry within two or three dimensions. Major emphasis is put on organization and interpretation of data and formulation of arguments for proofs.

Precalculus/Functions and Trigonometry: Grades 11-12 College YearLong /1 Credit
(This course counts toward one of 4 required math courses)

This course is open to students who have passed Algebra I, Algebra II, and Geometry. This course integrates statistical and algebraic concepts, and previews calculus in work with functions and intuitive notions of limits. Use of the graphing calculator for plotting functions, analyzing data, and simulating experiments will take place throughout the course. It provides a review of the fundamentals of algebra and analytical geometry. Emphasis is on calculus-oriented concepts including functional notations, graphing, and the applications of functions. The behavior of algebraic, exponential, and logarithmic, and trigonometric functions are explored with the use of the graphing calculator throughout the course.
Weighted class. Prerequisite Algebra I &II Geometry

Calculus: Grade 12 College **Year-Long/1 Credit**
(This course counts toward one of 4 required math courses)
This course is our most advanced math course and is intended to challenge students who are going to a University or College. Principles of Calculus and Engineering will be taught.
Weighted class. Prerequisite Algebra I & II Geometry and Precalculus/Functions and Trigonometry.

AP Calculus: Grade 11-12 College **Year-Long/1 Credit**
(This course counts toward one of 4 required math courses)
AP Calculus AB is roughly equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. The AP course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. You'll learn how to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and how to make connections amongst these representations. You will learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.
Weighted class. Prerequisite Algebra I & II Geometry and Precalculus/Functions and Trigonometry.

Probability and Statistics; Grade 10-12 **Year Long/1 credit**
(This course counts toward one of 4 required math courses)
This course will provide students with an elementary introduction to probability and statistics. Students will apply what they learn to real-world problems involving probability and statistics. The course also provides the students a hands-on approach of application of probability and statistics. Topics include: data classification, frequency distributions, measures of central tendency, variation, and position, basic probability and counting principles, probability distribution, and confidence intervals.
Weighted class.

Analysis: Grades 11, 12 **Semester/.50 Credit**
Analysis is intended for those students who will pursue a career in which mathematics plays an important role. Topics include: techniques for solving systems of equations, systems of inequalities and linear programming, matrix solutions of systems of linear equations, the algebra of matrices including the inverse of a matrix, determinants and their properties, Cramer's Rule, mathematical induction, arithmetic sequences, geometric sequences, the algebra of vectors including the dot product and the cross product, space coordinates and vectors in three space, lines and planes in space, and graphing parametric equations and polar equations. Graphing calculators are used throughout the course to enhance the explanation of topics and increase student understanding.

Prerequisite: Algebra I and Geometry

ASVAB Math/Grades 10-12 E **Semester/.50 Credit**

This course is designed for students who plan to enter the military after graduation. Many military careers require a solid understanding of basic math principles and this course is designed to focus on those skills. The math section of the ASVAB is timed and there is no calculator or formula sheet use. This class will help students learn to set an appropriate pace and focus on how to solve each problem quickly and accurately. At the end of the course, the school will arrange for the ASVAB to be taken at the school.

Brain Teaser Math: Grades 9-12 E **Semester/.50 Credit**

This course is focused on Problem-Solving and is designed to be an interactive and fun class for students who enjoy math. Students will be creating, solving, and discussing a wide range of interesting math problems, puzzles, and games. Some problems will arise from discussions in regular math classes; some are classical mathematical questions, while others are problems created by students in the class. This course consists of challenging, multi-step problems where the answer is not always obvious without straining your brain.

MUSIC

Grades 7-8 Must Choose One 'Grade 7/8' Music Elective

BAND

Middle School Band: Grades 7 & 8/E **Year Long**

This class is for students who have had either some or no previous experience in instrumental music. Beginning band classes are composed almost exclusively of seventh and eighth grade students who have taken band lessons during fourth, fifth, or sixth grade, although seventh and eighth graders who did not but now wish to learn to play a wind or percussion instrument may enroll. Students will choose one of the basic instruments for study such as flute, clarinet, saxophone, horn, trumpet, trombone, baritone, or percussion (bells or drums). Securing an instrument is the responsibility of each individual student. Used instruments may be purchased or new instruments may be rented from music stores through rental plans. Used instrument prices vary according to the type of instrument and condition. The emphasis in Beginning Band is on the physical performance fundamentals associated with the chosen instrument, and music selections will be suited to the performer's abilities. All students are expected to gain a basic understanding of music theory, history, and appreciation throughout this course. Participation in all performances is an integral part of the course and is required. Performances may include marching in the annual Fishing Tournament parade, Winter Concert, marching in the Memorial Day parade, Spring Concert, and graduation.

Concert Band: Grades 9-12/E **Year Long/1 Credit**

This class is for students who have experience in instrumental music before, preferably middle school band, but at the very least lessons during their fourth, fifth, or sixth grade year. Students involved will perform music suited to their overall ability levels, with repertoire seeking to expand their abilities. Repertoire will encompass widely varied styles and genres, including but not limited to classical and modern pieces. Participation in all performances is considered an integral part of the course and is

required. Performances may include marching in the annual Fishing Tournament parade, Winter Concert, marching in the Memorial Day parade, Spring Concert, and graduation.

CHOIR

Middle School Choir: Grades 7 & 8/E **Year Long**

This is an age-appropriate vocal performance ensemble. Students will learn and perform appropriate repertoire while exhibiting proper vocal technique and musical expression. Various repertoires will be studied along with sight singing and the elements of literature in English and other languages. Participants will perform at least 5 times a year, both during the school day and winter and spring evening concert performances. Participation in all performances is considered an integral part of the course and is required. Performances may include the winter and spring concerts, as well as graduation and/or baccalaureate.

Concert Choir: Grades 9-12/E **Year-Long/1 Credit**

This is the school's premiere vocal performance ensemble. Students will learn and perform appropriate repertoire while exhibiting proper vocal technique and musical expression. Various repertoires will be studied along with sight singing and the elements of literature in English and other languages. Participants will perform at least 5 times a year, both during the school day and winter and spring evening concert performances. Participation in all performances is considered an integral part of the course and is required. Performances may include marching in the annual Fishing Tournament parade, Winter Concert, marching in the Memorial Day parade, Spring Concert, and graduation.

GUITAR

Beginning Guitar: Grades 7-12/E **Year Long/1 Credit**

This class is designed for students with no previous guitar experience. Students will be introduced to the various types of guitars, their various parts and applications. They will be given fundamental instruction in music theory as it relates to the guitar. This will include, but not be limited to, chords, chord tabs, power chords, right hand strumming/picking techniques I, IV, V, chords in any given key, playing by ear and playing in an ensemble. While not primarily a performing class, students may be asked to perform during winter or spring concerts.

Intermediate Guitar: Grades 9-12/E **Year Long/1 Credit**

This class is for those students who have completed beginning guitar or who have had at least one year of previous guitar instruction elsewhere. Intermediate guitar builds on the techniques learned in beginning guitar and takes them to a higher level of skill and expertise. Students will be given a deeper knowledge of music theory and be able to perform more demanding chords and strumming techniques. At this level, students are also given the opportunity to explore their ability to perform lead 'breaks' and basic song arrangements. This class is also given the opportunity to record in the TCCS recording studio, as well as perform during winter or spring concerts.

Jazz Band: Grades 9-12/E **Year Long**

Course content includes: This is a performance-based class, rehearsing music from the 1920s to the contemporary. Students will also be expected to improve their sight-reading skills with their knowledge of basic music theory and interval training. Students will also build a base of scales and

modes to improvise solos to various jazz styles. This ensemble may be required to perform at concerts and community events as scheduled by the director.

*Course Prerequisite(s) To be a member of the Jazz Ensemble, students must be in the Concert Band or be allowed to join as recommended by the director. **Any student who is not in Concert/Marching Band must audition for the director.**

PIANO

Students will be placed into basic, intermediate, or advanced classes depending on their skill level. Advanced class students will have the opportunity to accompany the Concert Choir.

Basic Piano: Grades 7-8/E **Year Long**

This course is designed for any middle school student who wishes to learn the fundamentals of keyboard performance. The course is designed for students with no previous piano background. Music theory appropriate to the student's level is part of this class. Students perform for one another in a weekly "In-Class Recital" setting, as well as the Winter and Spring Concerts. Participation in all performances is considered an integral part of the course and is required.

Basic Piano: Grades 9-12/E **Year Long/1 Credit**

This course is designed for any senior high student who wishes to learn the fundamentals of keyboard performance. The course is designed for students with no previous piano background. Music theory appropriate to the student's level is part of this class. Students perform for one another in a weekly "In-Class Recital" setting, as well as the Winter and Spring Concerts. Participation in all performances is considered an integral part of the course and is required.

Intermediate/Advanced Piano: Grades 9-12/E **Year Long/1 Credit**

This course is designed for any student who has completed the basic piano course, or at least one year instruction elsewhere. This course will help increase keyboard skills to a degree that will permit the student to play a variety of music for self-enjoyment. Music theory appropriate to the student's level is part of this class. This year-long course helps the student apply fundamentals of music theory and harmony to the keyboard. It is designed to offer experience in improvisation, transposition, modulation, and sight-reading. Students perform for one another in a weekly "In-Class Recital" setting, as well as the Winter and Spring Concerts. Participation in all performances is considered an integral part of the course and is required.

OTHER MUSIC

Music Theory: Grades 9-12/E **Semester/.50 Credit**

This course digs into the building blocks of music: pitch, rhythm, scales, intervals, chords, and harmony, and illustrates how they flow together to make a song work. This course gives students a basic knowledge of music theory fundamentals, develops their sight reading skills and dictation abilities, and provides opportunities for composing and performing. No previous music experience is required for this course, though it is recommended.

Recording Engineering & Production: Grades 9-12/E **Year Long/1 Credit**

This course is designed to introduce students to all the integral components that make up the art and science of sound recording. It is an exploratory course designed to give students the opportunity to

examine and develop the necessary skills required to professionally record and produce a variety of musical styles. This is a lecture/studio course in which topics are presented by the instructor, recording components and theories are explained, and recording assignments are completed by the student. This will primarily be done in the recording studio with some assignments completed at home. While most of the grading for this course will be based on in-class procedures, there will also be quizzes and other tests from time to time. The course objectives will be as follows:

- To introduce students to the use of recording equipment, recording procedures, and acceptable standards of work in the industry.
- To introduce students to a wide variety of musical styles, musical instruments, and musical production techniques.
- To orient students to the range of recording methods, topics, and occupations that characterizes the field.
- To provide students with opportunities to develop basic recording skills in respect to all the components necessary to the field.

Rock N Roll Music History Grades 9-12/E **Semester/.50 Credit**

This course is designed for students to learn about American and World culture through Rock N Roll music. Historical research projects will be required. Eras of our music will be studied including Elvis Presley, Beatles, ACDC, Bob Dylan, Chuck Berry, Johnny Cash, and Led Zeppelin to modern day music like Green Day and Blink 182.

PHYSICAL EDUCATION

Physical Education 7: Grade 7/R **9 Week Class**

This course provides students with the opportunity to learn a variety of sports and sport related movements as well as health and fitness concepts. Health topics relate to nutrition, fitness, health and wellness. Emphasis is placed on active participation and positive social interaction during fitness and sport activities.

Physical Education 8: Grade 8/R **9 Week Class**

This class continues to build on skills learned from Physical Education 7, furthering the lifetime fitness concepts achieved thus far, providing specific areas of concentration, and exposing the students to a

myriad of fitness and sports activities.Emphasis will be again placed on active participation and positive social interaction during fitness and sports activities.

Physical Education General Concepts: Grades 9-12/R Semester/.25 Credit
This class builds on the skills learned in previous courses to work toward the goal of lifetime fitness by engaging in a variety of sports skills and fitness activities which may include, but not limited to, volleyball, hockey, tennis, basketball, badminton, running, lacrosse, dance, archery, etc. Students will identify and understand various components of health related physical fitness/wellness, assessment, interpretation, and evaluation of his and her personal health related physical fitness and lifestyle. Students will be assessed with physical evaluations, cognitive evaluations, and active participation.

Weight Lifting: Grade 9-12/E Semester/.25 Credit
This course is designed to give students the opportunity to learn basic weight training concepts and proper techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardiorespiratory endurance activities. Students will learn the basic fundamentals of weight training, strength training, aerobic training, and overall fitness training and conditioning. The course includes both lecture and activity sessions. Students will be empowered to make wise choices,meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime. Students will create and design their own weight training and conditioning plan. (maximum of 12 students)

Fitness Concepts: Grade 9-12/E 9 Weeks Class/.125 Credit
This course is designed to give students the opportunity to learn fitness concepts and conditioning techniques used for obtaining optimal physical fitness. Students will learn the basic fundamentals of strength training, aerobic training, and overall fitness training and conditioning to improve their personal physical fitness. Activities include but are not limited to cross training, partner fitness, yoga/pilates, and use of heart rate monitors. The course includes both lecture and activity sessions. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime.

Advanced Physical Education Concepts: 11th-12th Grade Only/E Semester/.25 Credit
Advanced physical education will provide learning opportunities for students to further develop skills and knowledge related to fitness, physical competence, cognitive understanding, and positive attitudes about physical activity that promote a healthy and physically active lifestyle. Students will acquire knowledge and skills in recreational, athletic, and lifetime activities. Advanced students are expected to complete a more rigorous fitness and training program, as well as progress through the physical education curriculum with a focus on team sports.

Yoga and Mindfulness 9-12/E 9 Weeks/.125 credit

An easy-paced class with an emphasis on yoga postures, movement sequences, breath work, meditation, and stretching techniques. Students will learn and perform different types of yoga including Vinyasa, Yin Flow, etc. Students will also create and teach their own yoga sequence.

SAT READING/MATH

(Only taken by students who are taking the SAT toward the end of a semester.) Semester split with SAT Reading and SAT Math

SAT READING/ MATH Grade 10 - 12

Offered at TCCS through the Warren Higher Ed
This class introduces students to the new SAT format. An overview of test layout and scoring will be given. Practice tests will be taken, focusing on passage-based reading, sentence completion, and critical reading skills. Student's language will be enhanced with weekly practice and tips for building their vocabulary. This course will provide the students with review of the mathematics needed to be successful on the mathematics sections of the SAT. The course we also explain how the test is scored and testing strategies for the students to be successful on the SAT. Topics include: Linear equations, linear inequalities, systems of equations and inequalities, graphs of linear equations and inequalities, ratios, proportional relationships, percentages, representing and analyzing quantitative data, finding and applying probability, identifying and creating algebraic expressions, creating, analyzing, and solving quadratic and other nonlinear equations, creating, using, and graphing exponential, quadratic, and other nonlinear functions.

SOCIAL STUDIES/HISTORY

Civics and Government: Grade 7/R **Year Long Class**
In grade seven, students will study Civics. This course is designed to explain the purpose of government and the various types of government. They will know the diversity of Americans and what they value. Students will understand how a person becomes a citizen of the United States and will study the duties and responsibilities of citizens. The students will study what ideas influenced early colonial governments and the discontent between the colonists and British leading to the Declaration of Independence. Also, students will understand how the weaknesses of the Articles of Confederation led to the Constitution and how the federal government was organized. Students will study many different aspects of the Constitution and understand the powers expressed by Congress. Emphasis will be given to the functions and roles of the president and the requirements for becoming president. Students will

study all of the different branches of government and the powers and limits placed on the Supreme Court. Students will study the concepts of political parties. They will know what a political party does and know the major political parties of the United States. In addition, they will understand the voting process and the different types of elections that take place in the United States. Students will study the influence of public opinion and how it affects the government.

Pennsylvania Studies/US History: Grade 8/R **Year Long Class**

Pennsylvania Studies is a one-semester course taken in the eighth grade that is an integrated program comparing and contrasting state and national development in the areas of politics, economics, history, and culture. The course uses Pennsylvania history as a basis for understanding current policies, practices, and state legislative procedures. Students acquire motivation to participate in the political process as concerned citizens. This course also includes the study of state and national constitutions from a historical perspective and as a current foundation of government. The examination of individual leaders and their roles in a democratic society should be included. Selections from Pennsylvania arts and literature might also be analyzed for insights into historical events and cultural expressions. Additionally, students will study United States history, including a review of key ideas, events, and movements related to the discovery, exploration, and colonization of America, as well as the revolutionary and founding eras.

World Beliefs and Practices: 9-12/E **Semester/.50 Credit**

This course introduces students to the history of the diverse range of cultural, spiritual, religious, and philosophical beliefs and associated rituals that exist across different societies around the globe. This course encompasses major world religions like Christianity, Islam, Hinduism, Buddhism, Judaism, as well as smaller localized belief systems and practices tied to specific cultures and communities. Specific emphasis will be placed on how these beliefs and practices developed globally, and how they interact and influence our modern world

World History and Civilization: Grade 10/R **Year Long/1 Credit**

World History emphasizes events and developments in the past that greatly affected large numbers of people across broad areas of the earth and that significantly influenced people and places in subsequent eras. Some key events and developments pertain primarily to particular people and places, and others, by contrast, involve trans-cultural interactions and exchanges between various peoples and places in different parts of the world. Students are expected to practice skills and processes of historical thinking and inquiry that involve chronological thinking, comprehension, analysis and interpretation, research, issues-analysis, and decision-making. They are expected to compare and contrast events and developments involving diverse people and civilizations in different regions of the world. Students are expected to examine examples of continuity and change, universality and particularity, and unity and diversity among various people and cultures from the past to the present.

World Geography: Grade 9/R **Year Long/1 Credit**

World Geography provides an opportunity to study the interaction of humans and their environments in a world setting. Students study global patterns of physical (natural) and cultural (human) characteristics, including earth/sun relationships, atmospheric and oceanic circulation, landforms, climate, vegetation, population, economic activity, political structures, culture, and International and

interregional links. They use maps, graphs, and technology such as geographic information systems (GIS) to establish spatial relationships, which are the interaction of two or more physical and cultural characteristics within a designated place, area, or region. Historical trends and events provide a context for understanding cultural change. Countries and regions selected for study include examples from each continent. Students are expected to apply knowledge of geographic concepts to research, inquiry, and participatory processes. Geographic concepts that guide the course follow the Five Themes of Geography and the Six Basic Elements of the National Geography Standards. The Five Themes of Geography are Location, the Characteristics of Place, Human/Environment Interaction, Movement between Places, and Regions. The Six Elements of the National Geography Standards are The World in Spatial Terms, Places and Regions, Physical Systems, Human Systems, Environment and Society, and The Uses of Geography.

United States History: Grade 11/R **Year Long/1 Credit**

United States History is a yearlong class taken at the eleventh grade level that builds upon concepts developed in previous studies of American history. Students in this course are expected to identify and review significant events, persons, and movements in the early development of the nation. After providing such a review, the course gives major emphasis to the interaction of key events, persons, and groups with political, economic, social, and cultural influences on state and national development in the late nineteenth, twentieth, and early twenty-first centuries. Students are expected to trace and analyze chronological periods and examine the relationship of significant themes and concepts in Pennsylvania and United States history. They are expected to develop skills and processes of historical thinking and inquiry that involve chronological thinking, comprehension, primary document analysis and interpretation, and research that include the use of primary and secondary sources found at local and state historic sites, museums, libraries, and archival collections, including electronic sources. Opportunities are given to develop inquiry skills by gathering and organizing information from primary source material and a variety of historical and contemporary sources, accounts, and documents that provide diverse perspectives. Investigation of themes and issues includes cultural pluralism and diversity of opinion in American society. Students should exercise their skills as citizens in a democratic society by engaging in problem- solving and civic decision-making in the classroom, school, and community setting.

United States Government & Economics: Grade 12/R **Year Long/1 Credit**

United States Government is a one-semester course taken in the twelfth grade that provides a framework for understanding the purposes, principles, and practices of constitutional representative democracy in the United States of America. Responsible and effective participation by citizens is stressed. Students will understand the nature of citizenship, politics, and government when they understand their rights and responsibilities as citizens and be able to explain how those rights and responsibilities as citizens are part of local, state, and national government in the United States today. Students will examine how the United States Constitution protects individual rights and provides the structures and functions for the various levels of government affecting their lives. Students will inquire about the American government through primary and secondary sources and articulate, evaluate, and defend positions on political issues with sound reasoning and evidence. As a result, students can explain the roles of citizens in the United States and the participation of individuals and groups in government, politics, and civic activities, recognize the need for civic and political engagement of citizens, and exercise rights and responsibilities in order to preserve and improve their civil society and constitutional government. Economics examines the allocation of scarce resources and their alternative

uses for satisfying human wants. This course analyzes the economic reasoning used as consumers, producers, savers, investors, workers, voters, and government agencies make decisions. Key elements of the course include a study of scarcity and economic reasoning, supply and demand, market structures, the role of government, national income determination, money and the role of financial institutions, economic stabilization, and trade. .

Criminology/Notorious Criminals in History/ Into. to Criminal Justice : Grades-9-12/E
Semester/.50 Credit

Students will explore the nature and extent of crime and the causes and prevention of criminality. They will look at the study of the dynamic field of criminology such as the motivation behind mass murder, the effects of violent media on young people, drug abuse, and organized crime. Additionally, they will learn the many theories behind crime causation using a variety of resources from lecture notes, video clips, real-life examples, research articles and more. In summary, two final questions are attempted to be accomplished: Why do people do the things they do? How can we explain the intricacies and diversity of human behavior? Introduction to Criminal Justice will cover the key content areas in Law, Public, Safety, Corrections, and Security Careers. The class includes past- to present perspective as well as many real world incidents and cases that illustrate the applications of legal concepts. This course will be helpful to students that will be going into Criminal Justice or Social Work Careers.

AP U.S. History: Grades 11- College(Can replace 11th grade US History) Year Long/1 Credit

This survey course is a fast-paced, challenging year-long course available to juniors and seniors who are motivated to take the AP US History exam through the College Board. This course requires students to develop and strengthen skills in note-taking, organization, logic, analysis, synthesis, evaluation, critical thinking, reading and writing. The course focuses on preparing students for the APUSH exam in May. The AP exam has no bearing on the grade for the course and students are not required to take the exam AP US History. Upon successful completion of the course the student will master a broad body of historical knowledge from colonization to present, demonstrate an understanding of historical chronology, use historical data to support from original documents, work effectively in groups to produce products, make presentations, and solve problems, how to effectively respond to Document Based Essay Questions (DBQs) and a Free Response Essay Questions (FRQs), prepare for and successfully pass the AP U.S. History Exam. The following themes are woven throughout unit discussions. Assessments will be structured around the themes American Diversity, American Identity, Demographic Changes, Globalization, Politics and Citizenship, Reform, Slavery and Its Legacies in North America. ***This course is an AP weighted course.***

World Wars: 10-12 Grade/E **Semester/.50 Credit**

This is a course in which students will study different wars that happened during the history of the world. Major wars covered are Seven Year War, WW1, WW2, Korean War and Vietnam War. There

are projects that the students are to participate in, reading assignments, writing assignments, quizzes, and tests.

Conspiracy Theories in History: 10-12 Grade/ E **Semester/.50 Credit**
This is a course where we will examine some of the most influential conspiracy theories in history, dealing with some of the world's most historic events, such as the NASA Moon Landing, The assassination of John F. Kennedy, the horrific Tuskegee Experiments, and top secret government programs. This class is designed to help the student think critically on historically controversial topics. The goal is for each student to examine all of the evidence given in a conspiracy and draw a logical conclusion.

American Pop Culture History: 9 -12 Grade / E **Semester/.50 Credit**
This class will look at popular culture in American History beginning with the late 1800's and continuing to the present. The class will look at themes such as heroes, icons, trends, and fads as well as other things. The class will look at the events taking place in the country at the time that affect the popular culture and how popular culture affects society as a whole. We will look at books, movies, music, toys, dress, advertising, etc. to examine the culture at specific points in history.

A.P European History : Grade 12/ E **Year long/ 1 credit**
This survey course is a fast-paced, challenging, year- long course available to seniors who are motivated to take the AP European History exam through the College Board. This course requires students to develop and strengthen skills in note-taking, organization, logic, analysis, synthesis, evaluation, critical thinking, reading, and writing. The course focuses on preparing students for the AP Euro exam in May. The AP exam has no bearing on the grade for the course and students are not required to take the exam. Upon successful completion of the course the students will master a broad body of historical knowledge from The Renaissance to the present, demonstrate an understanding of historical chronology, use historical data to support from original documents, work effectively in groups to produce products, make presentations, and solve problems, how to effectively respond to Document Based Essay Questions, and a Free Response Essay Question, prepare for and successfully pass the A.P European History Exam. The following themes are woven throughout unit discussions. Assessments will be structured around the themes Interaction of Europe and the World, Economic and Commercial Developments, Cultural and Intellectual Developments, States and Other Institutes of Power, Social Organization and Development, National and European Identity, Technological and Scientific Innovation. **<u>This course is an AP weighted course.</u>**

SOCIAL SCIENCES

Sociology : Grades 10- 12/E **Semester/.50 Credit**
(This courses does not count as a required history course for graduation)
Sociology is an elective course that studies human society and social relationships are an essential part of a civilized society and how we interact with each other is important so that we can find answers to questions and solve problems in our world. "Sociology teaches us to look at life in a scientific, systematic way." The way that we view the world comes from what we learn in our everyday activities. "The values, beliefs, lifestyles of those around us, as well as historic events help to mold us into unique individuals who have varied outlooks on social reality." This course deals with the social atmosphere that helps to make us who we are and how we behave. Sociology will cover topics such as culture, violence, deviance, social control, socialization and personality, group behavior, social class, and social

institutions. The key component of this course is to study ourselves and the society that influences our behavior.
**This class is recommended for students who are preparing for college.*

Psychology : Grades 10- 12/E **Semester/.50 Credit**
(This courses does not count as a required history course for graduation)
Psychology covers core concepts in psychology beginning with the use of the scientific method in research and the physiological basis for behavior. Topics covered will include social psychology, perception, states of consciousness, memory and learning. There will be a focus on human growth and development, personality, stress and adjustment, and ends with a unit on abnormal behavior, treatments, and therapy. Class time is divided between lecture, films, discussions, experiments, and demonstrations. During the first semester, students take frequent unit tests, design, implement, and write a report on a social psychology experiment, write a paper on a movie selected by the instructor, and create a dream log with dream analysis and critique of that analysis. Students will take frequent unit tests, read a book on which a paper is assigned.
**This class is recommended for students who are preparing for college.*

SCIENCE

***9th grade must take either Applied or Academic Biology/ Integrated Science**
***All other classes will be teacher approved as core or elective.**

Science 6: Grade 6/R **Year Long**
Instruction will take place in the classroom, the field, and will include laboratory experiences. Using the National Generation Science Standards (NGSS), students will develop an understanding of "What Constitutes Life" and "Their Place in the Solar System" while incorporating physical science concepts of matter and forces. To help students better understand the science concepts embedded in these units, the appropriate NGSS Science Practices and Crosscutting Concepts will be applied. Emphasis is given to the development of quantitative skills necessary for scientific measurement and establishing evidence based explanations and conceptual models. Students will be exposed to the three major areas of science: Life Science, Earth Science, and Physical Science.

Science 7: Grade 7/R **Year Long**
Instruction will take place in the classroom, the field, and will include laboratory experiences. Students will complete work using the scientific method with individual scientific investigations. This course of study is designed for students using the Next Generation Science Standards (NGSS). Students will be exposed to the three major areas of science: Life Science, Earth and Space Science, and Physical Science. To help students better understand the science topics embedded in the units, the appropriate

NGSS Practices and Crosscutting Concepts will be applied. Emphasis is given to the development of quantitative skills necessary for scientific measurement and establishing evidence based explanations and conceptual models. Topics of focus will include cells & systems, chemical reactions & energy, and matter cycling.

Science 8 : Grade 8/R **Year Long**

Instruction will take place in the classroom, the field, and will include laboratory experiences. The Science 8 curriculum is focused on both strengthening the skills needed for the process of scientific investigation and for preparing the students for the demands of high school science. This course of study is designed for students using the Next Generation Science Standards (NGSS). Students will be exposed to the three major areas of science: Life Science, Earth and Space Science, and Physical Science. To help students better understand the science topics embedded in the units, the appropriate NGSS Practices and Crosscutting Concepts will be applied. Emphasis is given to the development of quantitative skills necessary for scientific measurement and establishing evidence based explanations and conceptual models.Topics of focus will include: cell structure & metabolism, genetics, ecosystem dynamics & biodiversity, biomes & climate change, plate tectonics and matter cycling, as well as Earth and its position in Space.

Integrated Science: Grade 9 **Year Long/1 credit**

Integrated Science is a comprehensive and interdisciplinary course designed to provide students with a holistic understanding of the natural world. This course aims to integrate principles from various scientific disciplines, including physics, chemistry, biology, and earth science. Throughout the course students will explore fundamental scientific concepts, principles, and methodologies, allowing them to develop critical thinking skills and a deep appreciation for the interconnectedness of scientific disciplines. A portion of this course will also reinforce concepts learned in Life Science, the study of all living organisms, and their relationships to each other. Topics include the structure and function of the cell, the process of photosynthesis, respiration, cell regulation, mitosis and cell division, and genetics. Integrated Science provides a foundation for further studies in science-related fields, offering students a comprehensive and interconnected view of the natural world that will serve them well in an increasingly complex and technologically advanced society.

Academic Biology and Lab: Grades 9-10/R College **Year Long/1.5 Credit**

Biology is the study of life. This course is designed to provide students with a comprehensive understanding of the fundamental concepts and principles of biology. Topics covered within this course will include basic principles of biology, chemistry of life, cellular structure and function, photosynthesis and cellular respiration, cell division, genetics, ecology, and evolution. This class will include a lab period every other day. This is intended as an academically rigorous course and students will be held to a high expectation for participation and work ethic. Emphasis will be placed on developing critical thinking, problem-solving, and research skills. Students will also be expected to engage in regular self-assessment and review to ensure they are adequately prepared for assessments. The state required Keystone Exam is administered upon completion of this course.

AP Biology and Lab: Grades 11-12 College **Year Long/1.5 Credit**

The AP Biology course is designed to be the equivalent of a college-level introductory biology course. The intent of the course is to expose students to higher-level biological principles, concepts, and skills and allow them the opportunity to apply their knowledge to real-life applications. Students are also expected to learn not by memorization of facts, but through content and concept application via the AP Biology science practices. Topics covered within the course include chemistry of life, cell structure and function, cellular energies, cell communication and cell cycle, heredity, gene expression and regulation, natural selection, and ecology.

Prerequisite: Academic Biology with teacher recommendation.

This course is an AP weighted course.

Anatomy and Physiology I: Grades 10-12 **Year Long/ 1 Credit**

Anatomy is the study of structures within the human body, while physiology is the study of function of those structures. The course will cover topics such as basic terminology, histology, the skeletal, muscular, and digestive systems. Throughout the course, students will engage in hands-on activities and laboratory experiences, including dissections and use of models, to explore the structures of the human body and learn how they function. This course includes use of models and a fetal pig dissection as methods to gain a better understanding of the structures within the human body.

Anatomy and Physiology II: Grades 10-12 **Year long/ 1 credit**

This course will continue where Anatomy and Physiology left off in examining the terminology, structure, function, and interdependence of systems within the human body. Students will investigate topics such as the cardiovascular system, blood and its components, the special senses (i.e. smell, taste, sight, and hearing), the nervous system, and likely the reproductive system. Other topics to be considered will be determined by the interest of the class. A fetal pig dissection may or may not be part of the class based on if it was performed in the initial anatomy and physiology course. This will be an intensive class and students will be expected to read ahead and take notes prior to coming to class.

Prerequisite Anatomy & Physiology Weighted class.

Earth Science: Grades 10-12 Career **Year Long/1 Credit**

This course will explore Earth as a dynamic system, covering its formation, structure, and processes through the interaction of the geosphere, hydrosphere, atmosphere, and biosphere, integrating geology (rocks, tectonics, natural disasters), oceanography, meteorology, climate, and astronomy. There will be hands-on labs and real-world applications like sustainability and resource management, connecting Earth's history to present and future environmental challenges.

Physical Science: Grades 10-12 Career **Year Long/1 Credit**

This course introduces fundamental concepts of matter, energy, and forces, bridging chemistry and physics to explain daily phenomena through hands-on labs, mathematical problem-solving, and critical

thinking. Topics include atomic structure, chemical bonding, Newton's laws, energy transformation, electricity, magnetism, waves, sound and light and their relationships to the human body.

Biological Principles of Forestry Resources: Grades 10-12 Career **Year Long/1 Credit**
This course introduces students to the science, management, and societal importance of forests, covering tree biology, forest ecosystems, sustainable management, wildlife, and related careers through hands-on activities, field studies and modules on ecology, economics, and current issues. Topics will include the study of local, regional, and global forest ecologies and systems resulting in a holistic understanding of forest resources, forest diversity, and their societal values.

Astronomy: Grades 10-12 E **Semester/.50 Credit**
This class focuses on celestial bodies and the position of the earth within space. Units covered will include constellations, phases of the moon, and the telescope, stellar evolution history of astronomy, formation of the solar system, gravity, investigations in astronomy.

Keystone Biology Prep: Grades 10-12/R(if needed) **Year Long/1 Credit**
Students who do not pass the Biology Keystone test will receive remedial education in preparation for the make-up test. Within the class the students will receive remediation in the areas that they are most deficient. Anchors that appear on the biology Keystone test include basic biological principles, bioenergetics, chemical basis of life, homeostasis and transport, cell growth and division, genetics, ecology, and evolution. *Half (0.50) elective credit may be earned the first time this class is taken.*

Chemistry and Lab: Grades 10-12 **Year Long/ 1.5 Credits**
Chemistry is the study of matter and energy and their interactions. Topics covered include properties of matter, the composition of the atom, arrangement of the periodic table, bonding theories, chemical nomenclature, chemical reactions, and stoichiometry. Chemistry laboratories are performed with an emphasis on problem-solving and proper use of scientific techniques. This class includes a lab period every other day, students will be expected to prepare for the lab prior to coming to class on days that a lab is to be performed. Students will be held to a high expectation for participation and work ethic.

Stream Ecology: Grades 10-12/E **Semester/.50 Credit**
The students participating in this class will use the abundance of natural waterways around the school to study the interaction of the organisms that live within the stream. The interaction of the aquatic environment with the terrestrial will also be investigated. This class is very hands-on, and the student will be outside an average of once a week. *This course is offered during the 1st Semester.*

Entomology: Grade 10-12 E **Semester/.50 Credit**
This course is the study of insects. Depending on the weather, students will be actively collecting insects from the outdoors. Information to be included is anatomy, identification, and economic importance of insects. *This course is offered during the 2nd Semester.*

Organic Chemistry: Grades 11-12 College **Year Long/1 Credit**
This course is chemistry-based off of the carbon atom. Organic molecules are the basis for what makes living things. This course is significantly different from the inorganic class and requires a large amount of thinking about invisible molecules. ***Chemistry is a prerequisite. Weighted class.***

Physics: Grades 11-12 **Year Long/ 1 Credit**

This course will spend the majority of its focus on mechanics, which includes the motion of objects and the forces that act on them, including Newton's laws of motion, work, energy, and power. Students are expected to work independently, exhibit high-level critical thinking skills, and possess strong math skills. The use of labs and models will be used extensively to reinforce concepts with the course. Knowledge of those concepts will be integral to the study of this science. ***Trigonometry as a previous or concurrent class is strongly recommended. Weighted class.***

Biological Principles of Wildlife Resources (Wildlife):Grades 10-12 **Year Long/1 Credit**

This course introduces students to conservation, ecology, and management of terrestrial/aquatic species, covering topics such as habitat, population dynamics, identification, human-wildlife conflict, and wildlife related careers. The classroom will blend theory with hands-on projects in areas such as ornithology, mammalogy, and fisheries. Topics will include the study of local, regional, and global wildlife integrating biology, ecology, biodiversity, and environmental science.

Biological Principles of Oceanography: Grades 10-12 Career **Semester/.50 credits**

In this course students will study and explore oceanography from many different perspectives including chemical, physical, biological, and geological oceanography topics. Students will study oceans, water systems, tides, coastlines, and marine life. Coursework will integrate hands-on labs, research, and projects to study the ocean's role in Earth systems and its impact on humans using an interdisciplinary approach.

Integrated Science: Grade 9 **Year Long/ 1 Credit**

Integrated Science is a comprehensive and interdisciplinary course designed to provide students with a holistic understanding of the natural world. This course aims to integrate principles from various scientific disciplines, including physics, chemistry, biology, and earth science.Throughout the course, students will explore fundamental scientific concepts, principles, and methodologies, allowing them to develop critical thinking skills and a deep appreciation for the interconnectedness of scientific disciplines. The curriculum will cover a wide range of topics, emphasizing the relationships and interactions between different scientific fields. Integrated Science provides a foundation for further studies in science-related fields, offering students a comprehensive and interconnected view of the natural world that will serve them well in an increasingly complex and technologically advanced society.

PHILOSOPHY

Philosophy I : Grades 11-12/R **Semester/ .50 Credit**

This class serves as a basic introduction to philosophy. This course will study topics such as metaphysics, epistemology, political philosophy, ethics, and the history of famous philosophers. Selected novels and films will be used to help students to understand the fundamental concepts of

philosophy. It builds the framework from which students may begin to ask their own questions about themselves and the world we live in.

Philosophy II : Grades 11-12/R **Semester/ .50 Credit**

In this course you will review the content of the first half of the year and then build on that content to provide an extensive overview with depth to the history of western philosophy. Concepts of logical thinking, decision making, and judging right from wrong are explored, as well as philosophy in its relation to the Eastern world, and science. It also looks at philosophers and their theories in comparison to the times they lived and corresponding events occurring in the world at that time. The culminating activities are designed to make students better decision makers using the principles of philosophers. Students will write about evaluating and comparing different philosophical ideas.

TECHNOLOGY EDUCATION

Technology Education: Grade 7/R **9 Week**

This is an introduction to the working of technology. The students in this course are trained in the basics of measurement and should be able to read a tape measure with 100% accuracy. They are versed in extensive safety standards that are required in a shop environment. The students will use the knowledge of hand tools and measurement to create a quality take-home project.

Technology Education: Grade 8/R **9 Week**

Building on the skills gained and concepts mastered in the seventh grade,this class reiterates and augments the basic fundamentals of Technology Education. In this class the students will demonstrate correct safety practices and be introduced to some basic power tools (scroll saw, sanders, jigsaw). They will use these tools to create a shelf project to demonstrate the safe practices discussed in class.

Home Repair: Grades 10-12/E **Semester/.50 Credit**

Home repair is a course in which students will be introduced to the basics of home maintenance and repair. Topics included are: electrical, plumbing, drywall repair, and basic automotive maintenance.

Introduction to Sketch Up and Drafting: Grades 9-12/E **Semester/.50 Credit**

This is an introductory course that focuses on the basic drafting concepts that are used in the industry. Students will do technical sketching, board drawing, and computer drafting using Google Sketch Up. Emphasis will be placed on Geometric Construction and Multi-View projections. Students who elect to take this course must be able to measure and exhibit an understanding of algebra and basic math skills. Sketches can be transferred to woodworking, metal, or 3-D printing projects.

Technical Education Processes: Grade 9-12E **Semester/.50 Credit**

Beginning (I and II) students will work on mastering the use of each machine in the shop safely. They will learn basic wood joining skills and proper woodworking terminology. The advanced classes (III, IV) will expand on the fundamentals learned prior and will choose their own projects to build. The goal of these classes is to teach safety, responsibility, work ethic, pride in their work, and skills they can use over a lifetime.

Intro to Trade Skills/Community Technology 10-12 E **YearLong/1 Credit**

Two-Period course. This limited enrollment course is for students interested in any of the trades professions/technical school attendance after graduation. It will introduce the students to multiple trade fields with hands-on lessons and activities. Electrical, Plumbing, HVAC, Construction, Framing, Masonry, etc… will be covered in this class. The course will be split up between classwork and hands-on field experience. In addition, the class will also be involved in community based projects. These projects serve as community service applications, and vary by need. This course is highly recommended for students who are interested in pursuing a trade after graduation, rather than a four year university degree.

Welding I: Grades 10-12/E **Semester/.50 Credit**

This course provides the exploration, study and hands-on exploration of metal working and joining. Coursework studies are reinforced with hands on activities of sheet metal work, solid stock fabrication, use of hand tools, shop machines, (OAW) Oxy-Acetylene welding, (SMAW) Shielded Metal Arc Welding, (GMAW) Gas Metal Arc Welding, (FCAW)Flux Core Arc Welding, (GTAW) Gas Tungsten Arc Welding, (OAC) Oxy-Acetylene Cutting, and (PAC) Plasma Arc Cutting, (CAG) Carbon Arc Gouging. Activities are conducted in a teamwork environment. Students will leave this course with NC3/Lincoln Welding certification.

Advanced Welding: Grades 10-12/E **Semester/.50 Credit**

This course involves more independent work than Welding I. More complex projects are involved in Welding II requiring more complex attention to "lay-out" and design. Students will leave this course with NC3/Lincoln Welding certification and NC3 Fabrication Certification.

No Nails Carpentry 9-12/E **YearLong/1 Credit**

This course is designed to explore and perfect our use of jointery. We will discuss, explore, and utilize dovetails, mortise and tenon, bridle joints, and more. The projects in this class include, but are not limited to, tool boxes, stools, sharpening stations, benches, chairs, and more. Students will not be using any standard fasteners (nails/screws) in their projects. All projects will be joined using a traditional joint. This course is open to Sophomores, Juniors and Seniors that have successfully completed at least one semester of basic woodworking skills. We will be completing a beginner project, then you will pick your final project for the remainder of the year. Both hand tools and power tools in this course. ***One semester of technology education is a prerequisite.***

Additional Information

<u>*Weighted Grade Courses</u>

High School weighted classes are indicated at the end of each weighted course description. Physics, AP Biology, Organic Chemistry, Anatomy & Physiology II, Precalculus/Functions & Trigonometry, Calculus, AP Calculus, Probability and Statistics, Spanish III, Spanish IV, AP Language and

Composition, AP Literature and Composition, AP US History, AP European History, AP Computer Science. **Weighted courses will be taught at an accelerated rate and have nightly homework.**

Advanced placement classes will receive higher weighting, as indicated below, with a passing grade upon course completion, AP Courses will be given increased weight to impact the TCCS GPA Calculation at the end of each course for enrolled TCCS students in grades 10-12, but primarily for juniors and seniors preparing for college or military application.

TCCS seniors may choose to enroll in university/college courses that the Warren County school District has a dual enrollment contract with. The student needs to contact the college/university on their own. Students that reside in districts other than Warren County School District need to contract their home district to see which university or colleges their district has a dual enrollment contract with. TCCS does not participate in awarding credit for TCCS courses through college/university course enrollment.

Weighted Grading Scale

Regular Courses	Weighted HS / Honors	AP / University
A=4	A=5	A=5.5
B=3	B=4	B=4.5
C=2	C=3	C=3.5
D=1	D=1	D=1
F=0	F=0	F=0

MENTORSHIP Project

A mentorship is required for graduation.

Not all courses will be offered annually. The administration reserves the right to schedule classes based on enrollment.

E= Elective R=Required

WEIGHTED CLASSES allow one to earn more Quality Points for Class Rank

Students need to earn 28 credits in grades 9-12 and follow the recommended sequence of courses toward graduation. Parents/guardians should be aware of the sequence of required courses to graduate and the weighted grade scale in place at TCCS.