



2010-2011

**Instructional
Planning Guide**

**Southern Columbia Area
High School**

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Mr. James A. Becker..... High School Principal
Mr. Robert Mehalick.....Director of Special Education/Student Services

BOARD OF EDUCATION

Mr. Michael YeagerPresident
Mr. Charles Porter.....Vice President
Mr. John Yocum Treasurer
Mrs. Jennifer Shoup
Mr. Paul Starr
Mr. David Stellfox
Mr. Eric Stahley
Mr. Richard Steele
Mr. Timothy Vought

PUPIL SERVICES

Jenna Sellers Counselor
Thomas Donlan.Counselor
Paula Gardner.....School Psychologist
Jayme Toczylousky..... Extended Support Specialist
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Lisa Fleishauer..... Building Nurse
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MISSION STATEMENT

The mission of the members of the Southern Columbia Area School District's community is to provide a positive, quality learning environment that recognizes individuals and develops lifelong learners who value and respect self and others, who contribute to their community, and who meet challenges in a constantly changing world.

BELIEFS ABOUT EDUCATION

The Southern Columbia Area School District believes...

- The individual strengths of ALL must be recognized, and their development as productive contributors to society must be encouraged.
- The responsibility for a positive, quality learning environment is shared by the entire community.
- Learning is a personal, lifelong responsibility.
- A quality educational system prepares individuals to be responsive to change and new challenges.
- Respect for oneself, others and property along with cooperation enhance the learning environment.

INTRODUCTION

The program of studies of the Southern Columbia Area High School is planned to meet the needs of the youth of the Southern Columbia School District. The program is comprehensive and flexible and is planned to help the individual student to promote sound growth and achievement. Parents and students are urged to read this booklet carefully, discuss it with each other, and retain it for future reference.

The curriculum guide is intended to provide sufficient information so that the student and his/her parents may take a major responsibility in this planning. In selecting courses of study, careful thought should be given to the student's ability, past academic achievement, willingness to work, and future educational and vocational goals.

The program of studies will be used by parents and teachers as they help to assist students in planning the work to be pursued. Parents and students are invited to consult with the guidance counselors, teachers, and the administration.

Southern Columbia Area High School is accredited by the Pennsylvania Department of Education.

PROFILE

Community: The Southern Columbia Area School District encompasses Catawissa Borough, the townships of Catawissa, Cleveland, Franklin, Roaring Creek, and Locust in Columbia County, and Ralpho Township in Northumberland County. The district has a population of approximately 14,000 people, most of who work in small industries within and around the district. Much of the land is used for agriculture. The schools, both elementary and secondary, are located adjacent to each other along Route 487, five miles south of Catawissa.

School and Curriculum: Southern Columbia Area High School is composed of grades 9 through 12. Enrollment for the 2009-2010 school year is 412. The curriculum has been designed to provide Academic, Business, Technical Education, and Family & Consumer Science training. Beginning in the ninth grade, students also have the opportunity to attend the full-time cooperatively sponsored Columbia-Montour Vocational Technical School. The Southern Columbia schools, both elementary and secondary, are accredited by the Middle States Association of Schools and Colleges and by the Pennsylvania Department of Education.

For graduation, students must complete a minimum of 25 credits in grade 9 through 12. These credits must include 4 units of English, 4 units of Social Studies, 4 units of Mathematics, 4 units of Science, and 2 units of Arts and Humanities, 1 unit of Computer Applications, plus Health, Physical Education, Safety Education, Choices and Consumer Economics/Personal Finance. Academic students are encouraged to take advanced coursework beyond these minimum requirements. Business students are encouraged to take academic level courses whenever possible. It is common for students to cross curriculum lines in scheduling courses to meet their needs.

Grading System: The grading system is percentage-based:
93-100 = A, 84-92 = B, 75-83 = C, 70-74 = D, 69 or below = F.

Honor Roll and Class Rank: Courses are weighted according to the frequency of class meeting times. For instance, a class meeting every day for one class period carries a one-credit weight, a class meeting two times in a six-day schedule carries a one-third credit weight. Students who earn a grade average of 88 -94% during a marking period are eligible for Honor Roll status; those who earn an average of 95% or higher attain Distinguished Honor Roll status.

Students who maintain a 95% cumulative average in their four years of high school are designated as Honor Students at graduation. Class rank is based on the cumulative average of final grades in all courses in the Freshman, Sophomore, Junior, and Senior years.

Testing Program:
Grade 9- Career Assessment
Grade 10-4 Sight Benchmark Assessment & Mock SAT
Grade 10 & 11 Preliminary Scholastic Assessment Test (PSAT)
Grade 11- PSSA

National Honor Society: National Honor Society (Grades 10, 11, 12) membership is offered to students who achieve a 93% cumulative average. Further requirements for admission include strong evidence of leadership, service, and character. Induction of new members takes place at the beginning of each school year.

SAT Performance (Recentered Scores)

<u>Graduation Year</u>	<u>% of SCA Seniors Taking SAT</u>	<u>SCA Average Verbal/Math</u>	<u>PA Average Verbal/Math</u>	<u>Nat'l Average Verbal/Math</u>
2006	80%	515 / 514	501 / 503	508 / 520
2007	74%	497 / 508	493 / 499	502 / 515
2008	80%	496 / 507	493 / 499	502 / 515
2009	68%	508 / 528	493 / 501	501 / 515

SCA Graduate's Post-Secondary Plans

	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>
4 Year College	65%	68%	63%	69%	73%
2 Year College	10%	13%	9%	9%	14%
Other Education	3%	1%	2%	3%	1%
Military	3%	3%	4%	3%	6%
Workforce	-	-	8%	9%	6%

COURSE OFFERINGS

(Grades 9-12)

(All courses are one credit unless otherwise indicated.)

Language Arts

English 9, 10, 11, 12
English 9, 10, 11, 12 (Honors)
AP English
PSSA Reading Prep
Journalism & Yearbook
Television Production

Foreign Language

Spanish I, II, III, IV, AP
French I, II, III, IV
Latin I & II (Distance Learning)

Science

Physical Science
Applied Biology
Biology
AP Biology (2 cr.)
Applied Chemistry
Chemistry (2 cr.)
AP Chemistry (2 cr.)
Physics
AP Physics (2 cr.)
Ecology
Envirothon Science
Anatomy & Phys. (Honors)

Technology Education

Technology Education 9, 10, 11,
12 (1 or 2 cr.)
Drafting / CADD I, II, III
CADD

Social Studies

American History 9
American History 10
World History
Problems of Democracy
Social Science
AP European History

Mathematics

Applied Algebra
Algebra I
Applied Geometry
Geometry
Geometry (Honors)
Algebra II
Algebra II (Honors)
Pre-Calculus / Trigonometry
Pre-Calc / Trig (Honors)
Calculus
AP Calculus AB
Statistics
Accounting I & II
Foundations of Math
PSSA Math Prep

Specials

P.E. 9, 10, 11, 12 (.33 cr.)
Strength Training (.33 & .5 cr.)
Choices (.33 cr.)
Safety Education (.33 cr.)
Health (.33 cr.)
Consumer Economics/
Personal Finance (.33 cr.)

Computer Tech / Business

Computer Applications
Introduction to Business
Multimedia
Web Page Design
Marketing / Management
Business Law
A+ Core
Programming I, II, III
Business Law
Co-Op (1 or 2 cr.)

Family & Consumer Science

Personal Development
Relationships
Parenting & Child Development
Home Design (.5 cr.)
Cooking on Your Own (.5 cr.)
Adult Living (.5 cr.)
Delicious Desserts (.5 cr.)
Global Foods (.5 cr.)

Fine Arts

Foundations of Art
Drawing/Painting
Ceramics/Sculpture
Crafts/Photography
Senior Studio
Senior High Chorus
Music Appreciation
Instrumental Programming

PROGRAM OF STUDIES INFORMATION

1. Students should discuss their proposed program of studies with their parents or guardian and give the completed program to their counselor. This applies only to high school students who will be in grades 9, 10, 11, and 12 next August.
2. The counselor will prepare a program of studies for students who do not submit a completed and properly signed program by the prescribed date.
3. Students should select their electives with care. A student expecting to go to college should plan his or her program so that he/she has the necessary subjects for college admission. Be certain you have the necessary prerequisites before selecting a course.
4. College entrance requirements for specific college majors vary greatly from one institution to another. Students and parents are reminded that most college entrance requirements are based on all four grades of high school. Credits outlined by the college catalogues are the minimum requirements for entrance. Students should pursue a well-rounded college preparatory curriculum which will prepare the student to do college level work successfully.
5. A high school is capable of offering just so many courses, both required and elective. A student must select those courses from the list offered.
6. Suggested grade levels are marked with each course to help you in selecting your program.
7. Many young people do not arrive at specific vocational choices during their high school years. It is advisable for these students to follow academic programs depending on their interests and abilities.
8. **Once a student begins a course that he or she scheduled, district practice requires the student to remain in that course for the entire school year, regardless of the student's performance.**

YOUR COUNSELOR AND YOU

Your counselor's major task is to do everything possible to see that you graduate after having experienced a rich and rewarding high school career. He or she is the key figure that coordinates your efforts with those of your parents and teachers to enable you to realize your goals. With that in mind, please take advantage of the assistance we can offer you. Our goal is your success here at Southern Columbia and beyond.

Help is available to you whenever you need it. Our Guidance Office has an open-door policy, which means you can meet with a counselor at any time. From time to time throughout your high school years, your counselor will contact you. Your meetings together may concern test results, course grades, personal problems, post-high school plans, or any number of issues that can arise during a student's high school years.

Your course selection is one of the most important tasks that you and your counselor accomplish together. Consider with care the many courses listed in this guide. Your counselor will do everything possible to help you select the most appropriate program of studies for the next academic year. This guide has been designed to meet the needs of all students. Read it carefully as you select your courses for next year. Be sure to note the prerequisites for each course, especially in the mathematics and foreign language areas. If you or your parents have any questions about your selections, please see your counselor.

ADVANCED PLACEMENT

The Advanced Placement courses are for students who meet specific requirements and standards of an academic and personal nature. Courses in this program follow the syllabi prepared by the College Entrance Examination Committee on Advanced Placement. **Prerequisite required for enrollment.**

Outstanding students are urged to consider taking the CLEP (College Level Examination Placement) tests of the College Board or the Advanced Placement tests. These tests are designed to evaluate knowledge acquired in various courses with the object of granting credit.

DUAL CREDIT

(Dual credit courses can not be used to fulfill graduation requirements.)

Dual credit is a program whereby Southern Columbia Area High School students enroll in a college course taught either at the high school, through distance learning, or at a college campus, for both high school and college credit. Course grades **will** be included in Cumulative GPA. Dual credit is different from Advanced Placement in that the student does not take a national qualifying exam to receive the credit.

Dual credit courses offered at Southern Columbia Area High School are taught by qualified staff. Students will have a tuition cost plus the cost of textbooks. Classes from Wilkes University, Kings College, and Luzerne County Community College are typically available to our students.

Southern Columbia junior and senior students also have the opportunity to participate in Bloomsburg University's Advance College Experience Program (ACE). The ACE program provides significant tuition reductions for high school students taking college level classes. For courses offered at the Bloomsburg campus, tuition will be 25% of the residential rate. All regularly charged fees will apply.

The SCASD course offerings are dependent upon student interest and depending on the number of student enrollment, (must be at least 9 students). They may or may not be held depending on number of students interested and compatibility with other scheduled courses.

Any student interested in these courses must be in the top half of their class with a GPA of 90% or higher, students must pass the college placement exam or score a 500 on both the critical reading and math sections of the SAT test. Students will also be required to sign an academic contract outlining all student responsibilities and obligations necessary for enrollment in the dual credit enrollment program.

Potential Reimbursement for dual enrollment: The SCASD has submitted a grant proposal to the state for parents/students to receive a percentage of reimbursement for their college tuition and expenses, (transportation is the responsibility of students). To be eligible for reimbursement a student must have a minimum grade of a B in the course (transcripts must be presented to the school and are student responsibility). Students must attend a mandatory meeting with Mr. Donlan in March. For questions, please contact Mr. Donlan at 356-3464.

DUAL ENROLLMENT GRADING PROCEDURE:

All final grades for dual enrollment are calculated in to a students final GPA and ranking. Students taking a core subject course; for example (math, social studies, science, and/or English) will receive a weighted grading of 1.06. Students taking other college courses not of core subject content will receive a weighted grading of 1.04.

Conversion scale: For courses that receive a letter grade will be as follows, A+ = 100, A = 97, A- = 93, B+ = 92, B = 88, B- = 84, C+ = 83, C = 79, C- = 75, D+ = 74, D = 72, D- = 70

Responsibilities and Obligations Students Must Follow:

- Transcripts must be turned into the guidance office within two weeks of completions of course.
- Students that are substituting school hours with dual credit hours must take courses in both the fall and spring terms.
- Students must inform the guidance office of dual credit courses they are taking for high school credit.
- Students are required to attend a dual enrollment meeting in the spring and complete a contract in agreement with the guidelines and obligations.

See Mr. Donlan and/or Mrs. Sellers for additional information including an updated list of course offerings.

PARENTS AND STUDENTS MUST HAVE A CONFERENCE WITH A GUIDANCE COUNSELOR TO PARTICIPATE IN DUAL CREDIT

PROMOTION REQUIREMENTS

To advance to a 10th grade level homeroom, all students must have successfully completed a minimum of four (4) credits. Students must have completed a minimum of ten (10) credits to be considered a junior. Eighteen (18) or more credits will classify a student as a senior.

SENIOR HIGH SCHOOL GRADUATION REQUIREMENTS

Students must take and successfully complete twenty-five (25) credits to be eligible for a Southern Columbia High School Diploma. The following courses must be included in the twenty-five (25) credits:

- A. Four years of English.
- B. Four years of Social Studies
American History (Pre-discovery to 1920), American History (1920 to present), World History, Problems of Democracy.
- C. Four years of Mathematics.
- D. Four years of Science,
Physical Science, Biology, and two others.
- E. Junior Health.
- F. Four years of Physical Education.
- G. Safety Education.
- H. Choices.
- I. Arts and Humanities.
- J. Consumer Economics/Personal Finance.
- K. Computer Applications.

Transfer students may not be held to specific graduation requirement, depending on Principal's discretion.

Students in grades 10 - 12 are required to schedule at least 6.66 credits in each of their high school years. Students must schedule a minimum of 40 class periods per week.

Students in grade 9 are required to schedule 7.66 credits. Students in grade 9 must schedule 46 class periods per week.

Each student is required to successfully complete a graduation project. This project is a multi-year, multi-phase project, which proceeds out of the Choices class in ninth grade and culminates in a verbal/visual presentation of career research in the spring of their junior year.

It is a goal of Southern Columbia Area to have all students attain proficiency in the Pennsylvania academic standards. Eleventh grade PSSA reading, writing, mathematics and science testing occurs in the spring of the year. Students are required to score in the "proficient" or "advanced" range in each of these assessments. If a student scores in the "basic" or "below basic" range in any of the four assessments, he/she is required to retake in October of their senior year.

When a student does not score in the "proficient" or "advanced" range on the PSSA Senior testing, the student must successfully complete all senior courses needed for graduation and score in the proficient or advanced range on 4-sight exams. Exams may be taken unlimited times. Tutoring for the exam will also be offered. Further, if a student is not proficient in mathematics, the student must have a mathematics course scheduled during their senior year.

The Southern Columbia Area School District will make available additional instructional opportunities before and/or after school for any senior student striving for "proficiency" on the Pennsylvania Academic Standards. Students who have not scored in the "proficient" or "advanced" range are highly encouraged to take advantage of this additional instruction.

II. Deficiencies - A deficiency may be made up in two different ways provided the final grade is 55% or higher. Deficiencies with a final grade of less than 55% **cannot** be made up unless the student is a senior. The course will need to be repeated. Only 2 courses may be taken per summer.

To make up the deficiency:

- A. All work must be completed by **August 1st**. Parents are responsible in finding a tutor and all payment. Make check payable to Southern Columbia School District. If SCA offers the required course, then the course **must** be taken here.
- B. The student may attend a pre-approved summer school and satisfactorily complete his work.
- C. A student may be tutored privately by a certified and pre-approved tutor for 36 hours in the subject, and by passing the final exam for that subject. The final exam will be administered by the Guidance Department.

III. Situation with seniors - At the end of the third marking period the seniors who will not be considered for graduation will be notified in writing. Any senior considered for graduation who then fails to meet graduation requirements will still be permitted to take part in graduation exercises; however, Student must enroll and provide confirmation of enrollment in an approved summer school program. Student will not receive his/her diploma until all deficiencies are made up.

IV. Administrative discretion is permitted when unusual circumstances are in evidence.

POWERSCHOOL PARENT PORTAL

The PowerSchool Parent Portal provides both parents, and students, real-time online access to lunch account balances, attendance information as well as middle and high school students' grades, assignments and more! Parents are also able to set up e-mail notifications of all of this information to automatically inform them of new information as it becomes available. Schools also will have online bulletins available that provide current information about important school events.

The Parent Portal can be accessed by clicking on the link provided on our main website www.scasd.us or by typing the following address into your web browser: <http://powerschool.scasd.us/guardian>

Login and password information is mailed home at the beginning of each school year. Questions or concerns may be directed to Ann Marie Schetroma by e-mail aschetroma@scasd.us or by calling 356-3459 or 672-2983, ext. 3459

CURRICULUM GUIDELINES

The following is a guideline for course selection broken down into grade level. The specific selection of courses needs to be an individual decision based on future plans.

9th GRADE

English 9
Physical Science
American History 9
Math Course (Algebra 1, Geometry, or Honors Geometry)
Physical Education 9
Choices
Foreign Language (If college bound)
Computer Application

Electives: Art, Band, Business Courses, Chorus, Computer Technology Courses, Family Consumer Science Courses, Foreign Language, Technology Education Courses, Envirothon, Drafting/CADD

10th GRADE

English 10 or Honors English 10
American History 10
Applied Biology or Biology
Math Course (Algebra 1, Geometry, Honors Geometry, Algebra 2, Honors Algebra 2)
Strength Training
Safety Ed
Foreign Language (If college bound)

Electives: Same as 9th Grade plus TV Production

11th GRADE

English 11 or Honors English 11
Applied Chemistry, Chemistry or Advanced Placement Chemistry
World History 11 or Advanced Placement European History
Math Course (Applied Geometry, Algebra 1, Geometry, Honors Geometry, Algebra 2, Honors Algebra 2, Statistics, Foundations of Math, Pre-calculus/Trigonometry, Honors Pre-calculus/Trigonometry)
Physical Education 11 or Strength Training
Health
Foreign language (If college bound)

Electives: Same as 10th grade plus Music Appreciation, Social Science, an extra math course or an extra science course, Speech

12th GRADE

English 12 or Advanced Placement English
Physics, Ecology, Advanced Placement Physics, Advanced Placement Biology, Advanced Placement Chemistry or Envirothon
POD
Math Course (Algebra 1, Geometry, Algebra 2, Foundations of Math, Statistics, Pre-calculus/Trigonometry, Honors Pre-calculus/Trigonometry, Calculus, Advanced Placement Calculus, Accounting I, Accounting)
Seniors not scoring proficient/advanced in the 11th grade PSSA Math Assessment must schedule a Math course.
Physical Education 12 or Strength Training
Consumer Economics/Personal Finance
Foreign Language (If college bound)

Electives: Same as 11th grade but Co-Op added, and CADD

LANGUAGE ARTS

ENGLISH (Grade 9)	1 credit	CN 115
ENGLISH (Grade 9) Learning Support	1 credit	CN 134

This is a comprehensive course, designed to give students a myriad of experiences pertaining to English. Based on their performance in this class, pupils and parents will be able to gauge which English courses to select for the upcoming years. Ninth grade English stresses informative writing, imaginative and persuasive writing, technical writing, poetry composition, and an extensive research paper on a career cluster. Public speaking skills are also a focus, and culminate in a persuasive speech. Readings include John Steinbeck's The Pearl, short stories, biographical and autobiographical selections from the textbook, and William Shakespeare's "Romeo and Juliet." Twenty Accelerated Reader points are also required for each marking period.

HONOR ENGLISH (Grade 9)	1 credit	CN 2115
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This course is designed to give students a more challenging variety of experiences related to English. Students wishing to take this course should be strong writers and public speakers. The course requires students to compose a number of essays pertaining to works of literature covered in the class. In addition, informative and persuasive writing will be stressed. A minimum of two extensive research papers and speeches will also be required. Readings will include Steinbeck's The Pearl, short stories, biographical and autobiographical selections from the text, and Shakespeare's "Romeo and Juliet." Instruction will occur at an accelerated pace. Twenty-two accelerated reader points are required for each marking period. **Prerequisite 93% average in 8th Grade English and Advanced 8th grade on PSSA Reading or Writing are required.**

ENGLISH (Grade 10)	1 credit	CN 204
ENGLISH (Grade 10) Learning Support	1 credit	CN 135

Sophomore English focuses on challenging students in the basic areas of reading, writing, public speaking and obviously listening. By the end of their sophomore year, students will read the novels: *Of Mice and Men*, *Animal Farm*, and *The Old Man and the Sea*. Two plays, *Inherit the Wind*, and *Julius Ceasar* will also be completed. Verbs, commas and a thorough sentence unit compose the grammar portion of the course. There is an emphasis on writing. Students will complete several essays including a graduation project requirement roughly 1,000 words in length. During the year, there will be two or three group projects, including a forensics style debate. Twenty accelerated reader points are required for a 100 percent in that area each marking period. Mandatory novels are *Metamorphosis* and *Anthem*.

HONORS ENGLISH (Grade 10)	1 credit	CN 2203
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This is a writing-intensive course. There will be several essays dealing with the novels discussed in class; comparing them to other novels or actual events. Public speaking needs to be excellent. Novels include: *Of Mice and Men*, *The Short Happy Life of Francis Macomber*, *Flowers for Algernon*, *Heart of Darkness*, and *The Scarlet Letter*. *The Inferno* and *Pride and Prejudice* are the mandatory honors novels. There will only be 20 points of accelerated reader, due to the rigorous reading requirements of this course. **Prerequisite 93% Average in 9th grade English.**

ENGLISH (Grade 11)	1 credit	CN 305
ENGLISH (Grade 11) Learning Support	1 credit	CN 136

The goal of the grade 11 Language Arts course is the continued improvement of reading, writing, speaking, and listening skills for all students. The course strives for a heavy practical application of all the language arts' skills in the use of English. British and World literature serve as a vehicle through which the reading, writing, speaking and listening skills are addressed. Vocabulary and grammar study, in that they address all the language arts skills, are considered essential elements of this course. An element within the reading component will consist of the "Accelerated Reader" program with a standard of twenty-five AR points to be earned for full credit each marking period. A theme of "career preparation" runs through the course culminating in a major speech. This career speech is a major facet of Southern Columbia Area's Graduation Project and is required for graduation.

HONORS ENGLISH (Grade 11)**1 credit****CN 2303**

This language arts course has its goal the improvement of reading, writing, speaking, and listening skills. This course assumes a mastery of the basics of grammar and writing mechanics as a prerequisite. It strives for an accelerated pace of instruction in order to achieve an advanced command of the usage of our English language. Vocabulary will be studied with an eye toward success on the upcoming SAT Tests. British and World literature serve as a vehicle through which the language arts' skills may be addressed. An element within the reading component will consist of the "Accelerated Reader" program. A theme of "career preparation" runs through the course culminating in a major speech. This career speech is a major facet of Southern Columbia Area's Graduation Project and is required for graduation.

Prerequisite 93% Average in 10th grade English.

ENGLISH (Grade 12)**1 credit****CN 408****ENGLISH (Grade 12) Learning Support****1 credit****CN 137**

This language arts course is the continued improvement of reading, writing, speaking, and listening skills for all students. American literature serves as the primary vehicle through which these skills are addressed. Further vocabulary study and enhanced grammar study help to promote a practical application of all the required language arts' skills of this course. Group projects, individual projects, and literary response essays are a standard.

ADVANCED PLACEMENT ENGLISH (Grade 12)**1 credit****CN 3408**

This language arts course assumes a mastery of the basics of grammar, writing mechanics (punctuation, sentence and paragraph structure) and research gathering skills. This is an English instructional course to facilitate the process of reading and analyzing at a figurative level. Its objective is to give each student a strong language and composition background with the opportunity to earn up to one year's freshman English Composition college credit. An intensive study of Irish literature, contemporary American literature, human behaviors and conditioning, modern comedy, and a cumulative portfolio enhance a concentrated preparation for the AP exam in mid-May. **Prerequisite: 93% and one English Honors 9th - 11th grades.**

SPEECH (Grades 11-12)**1/2 credit****CN 409**

Speech is an elective Language Arts course for senior high school students in which students will study and practice the skills of public speaking. The course will require a number of speeches to be made each marking period in a variety of modes and settings. The course will explore the importance of projection, poise, and pace in speech giving. Microphone speeches and broadcasted speeches will also be addressed. In addition, the course will investigate the manner in which speeches are composed.

JOURNALISM/YEARBOOK (Grades 11-12)**1 credit****CN 4071**

Journalism/Yearbook is a full credit course, which meets daily to produce the high school yearbook. It is offered in eleventh and twelfth grades. Students taking this course will work together to design, write, photograph, market, and sell the book. This course teaches print and visual media writing styles, digital photography, and desktop publishing.

Yearbook may be taken more than one year.

Prerequisite: Combined average of English 9 and English 10 final grades must be 88% or higher/or Teacher Recommendation.

TV PRODUCTION (Grades 10-12)**1 credit****CN 610**

This course is designed for students who have a strong interest in television broadcasting and video communication technologies. Students who elect to take this course will learn all aspects of television production including pre-production planning, use of video equipment, post-production editing using professional software, reporting, script writing, lighting, graphic design, set design, and on-camera presentation. A student who schedules this course should have the ability to budget his time and have a strong work ethic as there will be projects that are very involved with strict deadlines to be met. Strong speaking skills (or a desire to improve them) and possession of an eye for detail and design are helpful as well. Enrollment is limited and will be based on a first come, first served policy.

FRENCH I (Grades 9-12)**1 credit****CN 111**

Why study French? It is spoken daily by about 150 million people, not only in France but on all continents. It is the official language, or one of several, in twenty-five countries around the world. By the end of the first year of study, students should be able to listen with comprehension in basic French with French-speaking people and other students of the language. Students will be able to listen with comprehension, speak, read, and write about many situations. Through the many cultural notes they will learn about the people and customs in the French-speaking world.

FRENCH II (Grades 9-12)**1 credit****CN 211**

In French II students will continue the development of the skills already mastered. The scope of content in the text has been widened to continue improving the ability to converse, read, and write about a greater variety of topics. At the same time, students will become better acquainted with the French-speaking world. **Recommended: 80% in French I**

FRENCH III (Grades 9-12)**1 credit****CN 311**

This course is intended for those students who have a good command of the grammar and considerable competence in listening, reading, speaking and writing. This course will be conducted mostly in French and considerable outside work will be required. Students will be striving for greater proficiency in the four language skills through a more in-depth study of grammar, various literary readings, i.e., Mme de Beaumont's *La belle et la bete*, written compositions, listening comprehension tapes, and considerable classroom conversations. **Recommended: 80% in French II**

FRENCH IV (GRADES 9-12)**1 credit****CN 411**

French IV is a continuation of French III, which continues to strengthen all of the students' language skills. Special emphasis is given to using and improving conversational skills. Students will do more reading of excerpts from French literature, i.e., Victor Hugo's *Les Miserables*, Antoine-St. Exupery's *Le petit prince*. **80% in French III**

SPANISH I (Grades 9-12)**1 credit****CN 112**

Why study Spanish? It is spoken in 21 countries by approximately 360 million people. The course involves the study of Spanish grammar and vocabulary. The students learn to read, write, and speak the Spanish language. By the end of the first year, students should be able to converse about simple everyday situations and happenings. They are also introduced to the varied people and cultures of the Hispanic world.

SPANISH II (Grades 9-12)**1 credit****CN 212**

Spanish II is a continuation of Spanish I, expanding the students' use of the language, and studying the culture and history of Spanish-speaking peoples. Emphasis is on improvement of listening and speaking skills as well as reading and writing skills with vocabulary on a wide variety of topics.

Recommended: 80% in Spanish I

SPANISH III (Grades 9-12)**1 credit****CN 312**

In Spanish III, students will delve more deeply into the complexities of the language, culture, and history of the Hispanic world. They will continue to improve conversational skills. A study of Spanish literature is begun at this level also, including Cervantes' *Don Quixote*. **Recommended: 80% in Spanish II**

SPANISH IV (Grades 9-12)**1 credit****CN 412**

This course is intended for those students who have excelled in Spanish I, II, and III. Increased conversational practice is provided and a continued study of readings from Spanish literature completes the program.

Recommended: 80% in Spanish III

AP SPANISH (Grades 11-12)**1 credit****CN 3511**

Students enrolling in Advanced Placement Spanish must already have a good command of the vocabulary and grammatical structure of Spanish and be competent in listening comprehension, reading comprehension, speaking and writing in Spanish. Students must have completed four years of Spanish with a high degree of success and be ready to use the language for active communication. This course is designed to prepare students to take the AP Spanish exam if they choose to do so, as well as to use the language, orally and in writing in a variety of contexts, with reasonable fluency and accuracy. **Teacher Committee Recommendation**

Foreign Language Offerings Available Through Distance Learning**Latin I****(1 H.S. credit)****CN 911**

(Optional inclusion in Cum GPA)

The first year is devoted to the study of the basic parts of speech accompanied by reading selections containing the essential grammar being studied. Emphasis is placed on correct formation of sentences in Latin along with making the student aware of his own language in the process.

Latin II**(1 H.S. credit)****CN 912**

(Optional inclusion in Cum GPA)

The students will build on the knowledge that they have acquired in Latin I. They will continue to learn Latin grammar, English derivatives from Latin roots, Roman culture, Roman history, Roman mythology, as well as the influence of Latin in the legal and medical fields of study.

PSSA Reading Prep (Grade 11)**1/2 credit****CN 315**

Half year course geared toward helping students prepare for the 11th grade PSSA Reading test. Students for not showing proficiency on 10th grade 4sight exam are required to take this course.

SOCIAL STUDIES**AMERICAN HISTORY (Grade 9)****1 credit****CN 121**

This course covers the exploration and colonization period starting in the year 1492. The course covers up to the year 1900. Students are taught how the new world was discovered, the settlement patterns, and formation of the United States government. They are taught the political, socio-economic, and sectional differences that led to a Civil War. There is also a correlation of past events and current events.

AMERICAN HISTORY (Grade 10)**1 credit****CN 221**

American History at the sophomore level begins in the year 1900. Focus is placed on our expansion, industrial developments, agricultural developments, World Wars I and II, the Great Depression, Korea, civil rights, Viet Nam War, Gulf Wars, and current events. Politics, economics, sociology, and race are also tapped on throughout the various periods. The course gives the background that students need to understand the United States today.

WORLD HISTORY (Grade 11)**1 credit****CN 321**

The course is designed for the eleventh grade social studies students. The course presents a chronological look at world history from the earliest civilizations to the 18th Century. Within this framework, the students will study political, social, economic, and cultural history so that they will understand the forces that have shaped different civilizations throughout history. Current development in each area of the world is constantly emphasized. At the conclusion of the course, the students should have an understanding of these areas and be able to intelligently discuss inter-relations with the studied regions and the United States.

SOCIAL SCIENCE (Grade 11-12)**1 credit****CN 422**

This course is especially appealing and rewarding to the college bound student. It focuses on three major disciplines in the Humanities: Cultural and Physical Anthropology, Sociology, and Psychology. In Cultural Anthropology, we analyze the traits that make up cultures around the world and make cross-cultural comparisons. Physical Anthropology examines the physical evidence and theories that attempt to explain the origins of man. Psychology explores the functions of the brain and various human behaviors. Sociology focuses on the analysis of social problems based on the application of sociological theory. The course is taught using the college model of extensive reading, lectures, and discussions. Students are evaluated by essay, objective tests, and cumulative projects. – **Does not count as a History Credit.**

PROBLEMS OF DEMOCRACY (Grade 12)**1 credit****CN 421**

The purpose of this course is to acquaint senior students with the structure and operation of our government at all levels. Consideration is given to the current problems, which confront our democratic society on a national and international level. Emphasis is also placed on economics and law and order. In all respects an interdisciplinary approach is used.

ADVANCED PLACEMENT EUROPEAN HISTORY (Grade 11, 12)**1 credit****CN 3521**

The Advanced Placement Program (AP) offers a course description and examination in European history to qualified students who wish to complete studies in secondary school equivalent to an introductory college course in European History. In the AP course, students acquire a knowledge of the basic events and movements that occurred in Europe during the time period from approximately 1450 to the Fall of the Berlin Wall. These events and movements are explored through three themes: intellectual and cultural history, political and diplomatic history, and social and economic history. In addition, students learn how to analyze historical documents and how to express their historical understanding in writing. Entrance into course will be based on the judgment of a review committee. **Prerequisite 93% Average in 9th and 10th grade History courses.**

SCIENCES**PHYSICAL SCIENCE (Grade 9-12)****1 credit****CN 501**

This course includes a basic study of chemistry and physics. The course starts with the measurement of physical quantities in the metric system. Knowledge of the measurement system allows student to perform experiments in both chemistry and physics throughout the year. The first part of the year, the chemical and physical properties of matter are studied. This involves an in depth look at the parts of the atom, how atoms bond, and reactions that occur when atoms bond. The second half of the year is spent on basic topics of physics. Students will study forces, energy, sound, simple machines, and basic electrostatics.

APPLIED BIOLOGY (Grades 9-12)**1 credit****CN 230**

Biology is a required course for graduation. The course will concentrate on the main groups of organisms: Plants and Animals. In plants, we will study basic structure, reproduction, and responses. In animals, we will progress from the simplest invertebrate to the most complex vertebrate. The course will include activities, labs, and dissection with the focus on practical applications.

BIOLOGY (Grades 9-12)**1 credit****CN 232**

Biology is a required course for graduation. Students choosing this course are students planning to major in a science in college. This rigorous course will include Plants, Animals, Genetics, and Human Biology. The course will be taught at an accelerated rate. Included are labs, projects, written papers, and research. Students should possess strong science skills and be well organized.

ADVANCED PLACEMENT BIOLOGY (Grades 11-12) 2 credits**CN 3231**

The College Board's Advanced Placement Biology provides able and motivated students with an opportunity to pursue college-level biological studies while still in secondary school. The Advanced Placement Program is an instrument of

cooperation that extends the educational opportunities by effectively relating college-level courses to appropriate credit and placement at colleges of their choice.

The AP Biology course is the equivalent of a college introductory biology course. The course is designed to be taken after successful completion of high school Biology and Chemistry. There are three general areas of study. They are Molecules and Cells, Genetics and Evolution, and Organisms and Populations. The course will include both descriptive and experimental laboratory exercises. The labs will be college-level labs with much emphasis on technique, data collection, evaluation, and lab reports.

Students desiring this class should have excellent grades in all science classes. They should have a very strong work ethic, and should expect generous amounts of homework. **Prerequisite: 93% in Biology.**

APPLIED CHEMISTRY (Grades 10-12) 1 credit CN 330

This course is a generalized chemistry course designed for students who do not plan to enter college, or for those who plan to choose college majors other than science or math. It will cover all of the chemistry requirements in the PA Academic Standards for Science and Technology and other topics that affect students' everyday lives. This course is hands-on, with a significant amount of time spent performing laboratories and demonstrations. More emphasis is placed on critical thinking than on mathematical calculations.

CHEMISTRY (Grades 10-12) 2 credits CN 333

This course is designed for students planning to enter college in majors that will require science courses, including the health profession. This course will cover all topics in introductory chemistry, with an emphasis placed on mathematical calculations and problem solving. This is a lab-based course, with many demonstrations and hands-on activities included. Students completing this course will be prepared to enter an introductory chemistry course in college. **Prerequisite: Minimum 75% in Algebra II**

ADVANCED PLACEMENT CHEMISTRY (Grades 10-12) 2 credits CN 3335

The AP chemistry course is designed to be the equivalent of the general chemistry course, usually taken during the first college year. Students will be challenged to learn many advanced topics at an accelerated pace, while concurrently learning the basics of chemistry. Students will be given copious amounts of homework and will need to adhere to a rigid time schedule (syllabus). The recommended mathematics prerequisite for an AP Chemistry class is 80% in both Algebra II and Pre-Calculus/Trigonometry. Students taking this course must have a very strong work ethic and excellent thinking skills. Students who have previously taken Applied Chemistry or Chemistry are not eligible for this course. **Prerequisite: 93% in Biology.**

PHYSICS (Grades 11-12) 1 credit CN 437

Physics is a course designed for the student who plans on attending a two or four year college in a field other than math, or science. The students will learn the basic laws and principles of physics in classical mechanics, waves, and DC electricity. This is a mathematically based course requiring students to be able to solve problems involving algebra and geometry. Students should expect homework and reading assignments every week. This course should prepare a student for a college physical science course or an introductory physics course.

Prerequisite: Minimum 85% in Algebra II

ADVANCED PLACEMENT PHYSICS (Grade 12) 2 credits CN 3437

This course is designed to prepare a student to take the AP Physics B Exam. The Advanced Placement program is designed to allow students to study college level physics while still in high school. At many colleges, if a student scores high enough on the AP Physics B Exam, he/she will be granted college credits and allowed to place out of introductory courses. This is a NON-CALCULUS based course, but the course content requires a strong knowledge of Algebra, Geometry, and Trigonometry. The course covers all of the topics covered in a full-year non-calculus college physics course. These topics are: Vectors and Scalars, Classical Mechanics, Electricity and Magnetism, Waves and Optics, and Modern Physics. Students who have previously taken Physics are not eligible to take this course.

Prerequisite: 93% in Chemistry.

ECOLOGY (Grades 11-12)**1 credit****CN 435**

This course is a science elective which covers the basics principles of ecology including watersheds and wetlands, renewable and nonrenewable resources, environmental health, agriculture and society, integrated pest management, ecosystems, threatened and endangered species, humans and the environment, and environmental laws and regulations. Concepts are applied through an in-depth study of the Roaring Creek Watershed. Readings, activities, labs, projects, and exams will be part of the coursework. Students are expected to participate in trips, including those to the school nature trail.

ENVIROTHON SCIENCE (Grade 9-12)**1 credit****CN 229**

This course is a science elective intended to promote stewards of conservation through environmental study. Concepts in forestry, wildlife, soils, and aquatics will be explored and all students are required to participate in the school-wide recycling program. Participation in the annual Envirothon Competition is optional. Readings, activities, projects and exams will also be part of the coursework. Students enrolled in the course are expected to participate in field trips to the nature trail and other outdoor related locations.

ANATOMY AND PHYSIOLOGY HONORS (Grade 11-12)**1 credit****CN 2340**

Honors anatomy and physiology is an elective for those students who want a challenging science course focused on the human body. Biochemistry, cells and tissues, the senses and body systems of skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic, respiratory, digestive, metabolism, urinary, and reproduction are all covered in this course. The study of anatomy and physiology prepares students for a variety of career pursuits in the allied health field or for those who want a better understanding of the structure of function of the body. Coursework involves text readings, activities, labs and lab reports, projects, quizzes and exams. **Prerequisite: 93% in Biology.**

MATHEMATICS**MATH 9 Learning Support****1 credit****CN 123****MATH 10 Learning Support****1 credit****CN 124****MATH 11 Learning Support****1 credit****CN 125****MATH 12 Learning Support****1 credit****CN 126****ALGEBRA 1 (Grades 9-12)****1 credit****CN 152**

Students will review and expand upon pre-algebra concepts. Emphasis is placed on solving, analyzing, and graphing linear functions and relations as well as polynomials and factoring. **Successful completion of Connected Math.**

GEOMETRY (Grades 9-10)**1 credit****CN 352**

In academic Geometry, the students will receive a complete, formal Geometry course based on the PA Academic Standards including topics such as circles, triangles, and angle relationships. The student must have met the Algebra I requirements since Geometry and Algebra skills are integrated in this course. A graphing calculator is used in the course as part of our technology component. **Successful completion of Algebra I**

HONORS GEOMETRY (Grades 9-10)**1 credit****CN 2352**

In Honors Geometry, the students will accomplish the academic geometry curriculum. However, these concepts are explored to a greater depth and accomplished in less time per concept. This course is designed for those students who have the ability to understand abstract ideas more quickly and to relate these to all areas of math and who are self-motivated to be challenged. **Prerequisite: 93% in Algebra I.**

APPLIED ALGEBRA (Grades 9-11)**1 credit****CN 257**

This course, designed for non-academic sophomores and juniors, places an emphasis upon extending the concepts learned in Applied Pre-algebra as well as an introduction to Algebra 2. These are also learned not as academic concepts, but rather with an applicable tech approach. It is also intended to enhance basic math skills with and without a scientific calculator and proper calculator use. Graphing calculators are also used. **Not available to students who have successfully completed Algebra I**

ALGEBRA 2 (Grades 9-12)**1 credit****CN 252**

In this course students will perform operations on radicals, write, solve, and graph linear equations and inequalities, solve quadratic equations, and solve rational equations. An abbreviated statistics unit will also be explored and included for standardized test preparation. **Prerequisites: Algebra 1 and Geometry.**

HONORS ALGEBRA 2 (Grades 9-12)**1 credit****CN 2252**

Summer work is a requirement for this class. Students must review assigned concepts from Algebra I and Honors Geometry ON THEIR OWN. A two-day exam will be given the first week of school on the work that will be assigned in May*.

Honors Algebra 2 students will study the same material as academic Algebra II students, but will do so at an advanced level and faster pace. This course will include additional topics such as conic sections, matrices, and polynomial functions. This course is designed for students who can relate to abstract thinking at a faster rate and who are self-motivated to be challenged. A graphing calculator is **necessary** for this course.

Prerequisite 93% in Algebra I or successful completion of Honors Geometry course work.

FOUNDATIONS OF MATH (Grades 11 & 12)**1 credit****CN 154**

This course is required for all students who: - As a junior have not enrolled or taken Algebra II.
- As a sophomore, are enrolled in Algebra 2 and have an average less than 84%.

This course is aimed at preparing students for PSSA and SAT exams and is available to students who have completed Algebra 1 and Geometry. It is also intended to be the next course sequentially for students who completed Applied Algebra. The course will include material from Geometry, Algebra 2, and Statistics.

APPLIED GEOMETRY (Grades 11-12)**1 credit****CN 357**

Applied Geometry is an applied mathematics course for the non-academic student. This course places a connection of the Geometry concepts with real world application. Also concepts learned and reviewed will be basic math, Algebra and Geometry with and without scientific calculators. The topics covered are in preparation for Penn College of Technology and similar college placements. **Not available to students who have successfully completed Geometry.**

PRE-CALCULUS/TRIGONOMETRY (Grades 10-12)**1 credit****CN 452**

This two-semester elective course takes the algebraic and geometric concepts previously learned, solidifies them, and introduces concepts of higher mathematics by extending on these familiar ideas. A great portion of the course will be devoted to trigonometry-the study of the measures of triangles-that is an integral part of high-level mathematics. This course develops the necessary skills that will give the student a solid preparation for the study of mathematics in college and also Calculus. A graphing calculator is required. **Prerequisite: Successful completion (84% or higher) of Algebra 2 and Geometry.**

HONORS PRE-CALCULUS/TRIGONOMETRY (Grades 10-12) 1 credit**CN 2452**

Honors Pre-Calculus/Trigonometry is designed for students who have successfully completed Algebra 2 and Geometry and are ready to approach mathematics at a more abstract level. The course is taught at an accelerated rate and the student must be self-motivated. Students will encounter mathematical topics such as trigonometry, exponents, polynomials, and functions. This course will prepare students for calculus and mathematics at the college level. A graphing calculator is required.

Prerequisite 93% in Algebra 2 or successful completion of Honors Algebra 2 course work.

CALCULUS (Grades 11-12)**1 credit****CN 453**

This course is for motivated students who have successfully completed either honors or academic Pre-Calculus. The student will learn the differential and integral calculus, limits and continuity and their application to concepts like velocity, slopes of line, acceleration, and rates of change. This course contains advanced topics and as such consists of a full year of work comparable to a college course. A graphing calculator is required. **Prerequisite: Successful completion of Pre-Calculus/Trigonometry.**

ADVANCED PLACEMENT CALCULUS AB (Grades 11-12) 1 credit**CN 3453**

Content of this college-level course corresponds to the syllabus of the College Board Advanced Placement Program. Students study the theory of elementary functions and differentiation of a function of one variable. Topics include various types of functions, limits and continuity, the derivative and its application, and the integral and some of its applications. Students are encouraged to take the A.P. Exam.

Prerequisite: 93% Pre-Calculus/Trigonometry.

STATISTICS (Grades 11-12)**1 credit****CN 457**

Statistics is an elective course that provides the necessary fundamental background in statistics for the student who plans to enter fields such as economics, business, education, psychology, sociology, medicine, mathematics, and physical science. Students will be familiarized with basic statistical concepts like mean and standard deviation. They will also learn extensively about the related topic of probability. Students will also be introduced to the basic concepts of logic in a short unit. A graphing calculator is required. **Completion of Algebra 2 required.**

ACCOUNTING I (Grades 10-12)**1 credit****CN 261**

Accounting I is a recommended course for all 10th, 11th or 12th grade students. The students will learn the accounting cycle and how to apply it to business situations. They will learn the importance of keeping accurate and up-to-date business records. Accounting I helps the student decide whether he has an interest in and an aptitude for accounting as a profession. The Accounting I course is taught for a full year and is a prerequisite for Accounting II. Students are able to put accounting principles into action in realistic business settings using the computer, simulations and games. This course prepares students for employment in business or for college in the fields of Accounting, Business Management, Marketing, and Business Education.

* Accounting I can be taken as a Math credit provided the student has successfully completed three (3) Math credits.

ACCOUNTING II (Grades 11-12)**1 credit****CN 262**

Accounting II includes Automated Accounting and increases the competence of the student. Students are able to put accounting principles into action in realistic business settings using the computer and business simulations. This course prepares students for employment in business or for college in the fields of Accounting, Business Management, Marketing, and Business Education. It is a full year course.

*Accounting II can be taken as a Math credit provided the student has successfully completed three (3) Math credits.

Prerequisite Successful Completion of Accounting I

PSSA Math Prep (Grade 11)**1/2 credit****CN 317**

Half year course geared toward helping students prepare for the 11th grade PSSA Math test. Students who are not showing proficiency on 10th grade 4sight exam are required to take this course.

COMPUTER TECHNOLOGIES/BUSINESS

COMPUTER APPLICATIONS (Grades 9-12)	1 credit	CN 156
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Computer Applications is a required computer education course designed for 9th grade students. The student will access and execute a variety of word processing, spreadsheet, database, graphic, desktop publishing and presentation application packages. Web 2.0 tools will also be discussed. Using a hands-on, practical approach, the students will create and integrate files to produce visual displays and printed documents as output. A final project will be to create a real world, entrepreneurial enterprise.

INTRODUCTION TO BUSINESS (Grade 9-12)	1 credit	CN 161
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Introduction to Business is the first business course offered in the business curriculum. It provides the student with an introduction to the business world with the emphasis changed from amassing a host of facts and business data to applying a logical approach to the identification and solving of various business and economic problems of a personal and business nature. This course emphasizes communication skills, hands-on projects and team-building exercises. Students will compete in teams in a National Stock Market Simulation.

MULTIMEDIA (Grades 10-12)	1 credit	CN 110
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Multimedia is an advanced computer class for 10th, 11th, or 12th grade students. This exciting course is designed to instruct students on the many areas of multimedia. Students will use computers, multimedia peripherals, and the Internet to design interactive multimedia programs, create graphics, edit digital audio, and much more. Students will be given first hand experience with cutting-edge software, like Adobe Photoshop, Adobe Audition and Macromedia authoring tools when developing their multimedia projects. **Prerequisite: Computer Applications**

WEB PAGE DESIGN (Grades 10-12)	1 credit	CN 462
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This one-year Advanced Computer course is for 10th, 11th, or 12th grade students. This computer class is designed for any student interested in areas of Web Design. Students will learn Basic HTML and characteristics of proper web page design. They will also utilize cutting edge software to create sophisticated effects, rollovers, and animation and learn to manage site files in an efficient manner. The primary web editing tools used in class are Macromedia Dreamweaver, Fireworks, and Flash. Software will also be combined with peripheral devices such as scanners, digital cameras, and video editing hardware to produce projects and web pages. **Prerequisite: Computer Applications**

MARKETING/MANAGEMENT (Grades 10-12)	1 credit	CN 463
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Marketing/Management is a recommended course for all 10th, 11th or 12th grade students. Marketing/management provides the student with an understanding of marketing and an introduction to management. This course is an exciting course and will address such areas as advertising, selling, purchasing, retailing and human resources. Students will be acquainted with the many career avenues available in these fields. Students will participate in a Pizza Shop simulation. Students will complete an advertising campaign, marketing plan, create a video commercial, and be exposed to outside speakers and field trips. This course prepares students for employment in business or for college in the fields of Accounting, Business Management, Marketing, and Business Education.

A+ CORE (Grades 10-12)	1 credit	CN 360
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The A+ CORE course aims to prepare students for careers as computer technicians. Through a structured series of objectives, students are exposed to all aspects of computer maintenance and support, from hardware systems to customer relations. Completion of the course will prepare students for certification as A+ technicians, further enhancing their employability. Using a hands-on practical approach, students will build, create and troubleshoot desktop PC systems. Final assessment will be delivered through the use of computer software designed to simulate the actual certification exam.

PROGRAMMING I (Grades 10-12)**1 credit****CN 361**

Programming 1 is designed to familiarize the students with the features, limitations, organization, and run-time behavior of programming languages. Programming emphasis concentrates on the Pascal language. Topics covered include: variables, functions, procedures, modular programming, structured programming, program planning, debugging, and documentation. A 75% in Algebra II is suggested due to the mathematical nature of the majority of programming projects.

PROGRAMMING II (Grades 11-12)**1 credit****CN 461**

Programming 2 takes students to the world of object-oriented programming using the C++ language. The course covers the C++ language, introducing the syntax and structures common to C++. Using C++ students will reinforce the core topics of structured programming, planning, and organization while creating a variety of text based programs in a Unix development environment. Topics covered include: variables, functions, procedures, classes, methods, structures, graphical interface design, program planning and documentation. A 75% in Algebra II is suggested due to the mathematical nature of the majority of programming projects. **Prerequisite: Programming I**

PROGRAMMING III (Grades 11-12)**1 credit****CN 561**

Programming 3 is recommended for students who are interested in creating programs for execution within web pages. The course utilizes object oriented Java applications that build up to HTML and applets, which allow Java programs to be run by virtual machines within browsers on many platforms. This course is an excellent foundation for future study of Web maintenance. Additional topics included are artificial intelligence and robotics programming. A 75% in Algebra II is suggested due to the mathematical nature of the majority of programming projects. **Prerequisite: Programming II**

BUSINESS LAW (Grade 10-12)**1 credit****CN 366**

This is a full-year course offered as an elective to any 10th, 11th or 12th grade student. The course deals with how law affects the student, the minor and the adult in various situations. A large portion is devoted to the enforcement of the law and the consequences when broken. The students will also be exposed to the importance of making and carrying out contracts. Other sections studied are personal property and bailments, buying and selling, the use of credit, applying law to employment and Tort law. The course is set up to be mainly a discussion through the application of law principles to numerous cases. Many outside resources are used such as: juvenile probation officers, police officers, lawyers, and a field trip to witness an actual court case. Students will participate in several mock trials. Students will obtain a wealth of information and have a better understanding of the importance of our legal system.

**COOPERATIVE EDUCATION
COOPERATIVE EDUCATION****1 credit****CN 714****2 credit****CN 712**

Cooperative education is a one or two credit elective program open to seniors only. Co-op provides occupational education to students electing this program through on-the-job training. Completing the Cooperative Work Experience Program successfully will provide the student with a better understanding of the world of work as well as occupational training which will enable the student to be successful in his or her future career. Co-op students are expected to have a business background or career objective.

All Cooperative education students will be required to take Life Skills- Cooperative Education in place of Life Skills. An application and interview process will be required for enrollment. Maximum of 50 students.

PHYSICAL EDUCATION/HEALTH/SAFETY EDUCATION**PHYSICAL EDUCATION****1/3 credit****BOYS
(9th Grade) CN 171****GIRLS
CN 173**

Physical Education in 9th grade continues to develop students' skills, so they may become more proficient in organized activity. It sets high goals for the student in terms of his social, emotional, intellectual, and physical level rather than physical size alone.

PHYSICAL EDUCATION

1/3 credit

**(11th Grade)
(12th Grade)**

**BOYS
CN 371
CN 471**

**GIRLS
CN 373
CN 473**

Physical Education in 11th and 12th grade emphasizes activities that encourage lifelong fitness and overall conditioning. It exposes students to a variety of activities so they can make educated decisions about their fitness after graduating from high school. Components of the program included new fitness trends, as well established programs in today's world. It also strives to make the student aware of relationships to classmates, as well as offer opportunity to be a leader among their peers.

STRENGTH TRAINING AND CONDITIONING

Grade 10

1/3 credit

**2 Days/Cycle (Boys or Girls)
Grade 10 CN 268**

Strength Training and Conditioning in 10th grade gives students the building blocks to achieve success in a well-structured program while learning how to perform the many exercises on the machines in the weight room. Guided programs offer foundations to build muscular strength and personal fitness, as well as confidence in a weight room setting. This is a required course in 10th grade and offered as an elective in 11th and 12th grade.

Grades 11 & 12

1/2 credit

**3 Days/Cycle (Boys or Girls)
Grade 11 CN 370
Grade 12 CN 470**

Strength training and conditioning will enable students to gain an in-depth understanding of strength training concepts and techniques. At the same time students will experience an increase in muscular development through a carefully planned and regulated training program.

Course content and instruction will vary to meet the students' individual needs. Specific training programs will be designed for students interested in development to complement their participation in varsity athletics. A general program will also be available for those individuals who are mainly concerned with improving their level of personal fitness.

ADAPTIVE PHYSICAL EDUCATION (Grades 9-12)

The Adaptive Physical Education program is designed to meet the needs of those students who by reasons of illness or disability are unable to participate in the more vigorous forms of activities. These students can engage in limited and modified activities and still receive credit for Physical Education.

This program has been expanded to include students who participate in regular physical education classes, but need additional training in such areas as basic skill, muscular coordination, and muscular weaknesses. Following testing and screening procedures, these students will be assigned at least one additional period of physical education per week. Prior parental permission will be secured before placement.

SAFETY EDUCATION (Grade 10)

1/3 credit

CN 270

Safety Education is a comprehensive course covering driver education, general safety, disaster preparation, and an introduction to CPR and first aid procedures. The classroom phase of driver education covers over 30 hours of instruction detailing the roads, control devices, car maintenance, insurance, and driving under the influence of alcohol or drugs.

Also covered are the many situations that the driver will experience, to include country roads, cities, interstate driving, trip planning, the natural laws controlling the car, and challenging weather conditions. Through it all, an emphasis will be placed on the need for cooperation on the roadways and the proper attitude to stay safe and incident free.

HEALTH EDUCATION (Grade 11)**1/3 credit****CN 377**

Eleventh grade health focuses on the integration of physical, mental, and social health. Students will evaluate factors that impact growth and development during adulthood and late adulthood. We will also evaluate factors that impact the body systems and apply protective/preventative strategies. Factors that impact nutritional choices of adults, the use/non-use of drugs, and the prevention and control of health problems will also be studied. We will also look at health care products and services that impact adult health practices, consumer choices, and contrast the positive and negative effects of the media on adult health and personal safety. A unit on current health issues will give students insight about issues that are happening now and how these issues affect the entire population. Lastly, we will explore the myriad of sexually transmitted infections with the preventative emphasis being good decision making skills.

TECHNOLOGY EDUCATION**TECHNOLOGY EDUCATION (Grade 9)****1 credit (1 period)
2 credits (2 periods)****CN 601
CN 181**

This course is designed to cover selected areas of manufacturing and construction. The course includes a study of the basic materials, processes, tools, machines and safety rules in a wood materials lab. A variety of other materials may also be utilized in the construction of prototypes. Students will develop safe work habits, through supervised activities, in using a variety of machine tools. Basic technical drawing, blueprint reading and CAD are studied to increase the students' ability to develop designs and communicate. Students will design and construct individual projects, and when appropriate, students may work on group projects. Mass production manufacturing may be one of the group projects. Another group project can be the engineering design problem and the development of a prototype to solve the problem. Students also investigate various areas and systems in technology through guided activities. In this course, technology is studied as a system of inputs, process, output, and feedback.

TECHNOLOGY EDUCATION (Grade 10)**1 credit (1 period)
2 credits (2 periods)****CN 602
CN 281**

An Intermediate technology education course designed to develop a contemporary understanding of metallic materials, processes, products and their impacts on industry and society. Specific laboratory experiences include the safe utilization of the tools and machines associated with the processing of metallic materials. Mathematical and scientific concepts are stressed as students study about and experience various processes used for transforming metallic materials into products. Students will also be advancing their knowledge of the Technological System and the Systems Model. Higher-level design brief activities will be used to help sharpen the following skills: cooperative learning, analytical thinking, experimentation, safe working habits, and problem solving. This intermediate course is used to provide further knowledge in the area of technology education using metals as a medium.

TECHNOLOGY EDUCATION (Grade 11)**1 credit (1 period)
2 credits (2 periods)****CN 603
CN 381**

This course is designed to increase the students' knowledge of manufacturing and construction about woodworking. Because we rely on wood for so many of our products we use daily, wood is studied as a material that is used in a system to solve problems and meet human needs. The course is an in-depth study into the materials, procedures, processes, tools, machines and safety rules that are common to woodworking. Technical drawings and CAD will be used in the design and planning of prototypes. Emphasis will be placed on the application of knowledge in the design, planning and construction of projects. In the area of construction systems, students will explore architectural drawings, construction materials, and structural elements. Students will be challenged in guided activities constructing and testing models. In this course, technology is studied as a system of inputs, process, output and feedback.

TECHNOLOGY EDUCATION (Grade 12)	1 credit (1 period)	CN 604
	2 credits (2 periods)	CN 481

An advanced technology education course designed to prepare students for "life after graduation." This course will continue to emphasize the following key concepts: cooperative learning, analytical thinking, experimentation, and problem solving. Students will experience and create a system. The areas of manufacturing, construction, and electricity will be the emphases. The focus will be on the integration and interrelationships of materials and processes, the application of mathematics and scientific principals, and the technological impacts on industry and society. Laboratory experiences will involve the solution of design briefs along with the development of skills. Students will be required to complete a variety of skill tests associated with machining, welding, and electricity, along with a variety of research projects.

DRAFTING/CADD (Grades 9- 12)	Year 1 1 credit (1 period)	CN 291
	Year 2 1 credit (1 period)	CN 292
	Year 3 1 credit (1 period)	CN 293

This Drafting/CADD course is designed to meet the needs of students who are college bound, such as prospective engineers, architects, and designers, or students who will be going to a technical school after graduation with intentions of choosing a career in industry or construction. This hands-on activity-based course provides the opportunity to study basic drafting methods and applications, with an emphasis on the use of computer aided drafting equipment and AutoCAD software. Twenty-first century drafting, sketching and design, geometric constructions, multi-view projection, dimensioning, auxiliary views and revolutions, sectional views, pictorial drawings, working drawings, architectural drawings, and other areas of interest. Students will learn about AutoCAD software commands and applications by working on tutorials and by constructing a variety of assigned drawings. The class is divided into levels of which are offered in each of the years of progression.

CADD (Grade 12)	1 credit	CN 605
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This course is designed for students who have taken Drafting/CADD and wish to expand and specialize in higher-level CAD applications. Using AutoCAD software, students will further increase their knowledge and understanding of CAD applications in specialized areas. Students will work on tutorial assignments and construct a variety of challenging 2-D and 3-D drawings. **Required: Drafting/CADD (3 Years)**

FINE ARTS

FOUNDATIONS OF ART	1 credit	CN 192
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This course will offer an emphasis on the foundations of art including art history and the elements and principles of design. This course will meet every day for one full year. This course must be successfully completed before taking any other art course.

DRAWING/PAINTING	1 credit	CN 296
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This course will offer an emphasis on the art forms of drawing and painting. Students will explore all of the media encompassing these two-dimensional art forms. This course will meet every day for one full year. The first two marking periods of the year will focus on the art form of drawing, followed by the study of painting during the last two marking periods of the year. **Prerequisite: Foundations of Art**

CERAMICS/SCULPTURE	1 credit	CN 392
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This course will offer an emphasis on the art forms of ceramics and sculpture. Students will explore all of the media encompassing these three-dimensional art forms. This course will meet every day for one full year. The first two marking periods of the year will focus on the art form of ceramics, followed by the study of sculpture during the last two marking periods of the year. **Prerequisite: Foundations of Art**

CRAFTS/PHOTOGRAPHY**1 credit****CN 492**

This course will offer an emphasis on the art forms of crafts and photography. Students will explore all of the media encompassing these two art forms such as textile art, book making, jewelry making, and photography. This course will meet every day for one full year. The first two marking periods of the year will focus on the art form of crafts, followed by the study of photography during the last two marking periods of the year. **Prerequisite: Foundations of Art**

SENIOR STUDIO**1 credit****CN 590**

This course will be offered to seniors who have a keen interest in the arts. This course will further enhance their artistic skill and talent through the production of a body of work and portfolio development. This course will meet every day for one full year. **Prerequisite: Successful completion of two years of art coursework.**

SENIOR HIGH CHORUS (Grades 9-12)**1 credit****CN 482**

The Senior High Chorus is a mixed chorus, open to 9th through 12th grade students. The Senior High Chorus performs advanced choral literature (Grade levels 4-6 on a scale of 1-6). Students are required to rehearse every day in a six-day cycle. Students will acquire knowledge of principals of music theory, composition, and history to increase understanding of the music being studied. The students prepare music to be performed for concerts, adjudication festivals, community functions, PMEA County, District, Regional and State festivals, and ACDA Honor Choir Festivals. The chorus also provides a performance medium for school pianists and other musicians.

Students will have group vocal lessons. These lessons will meet on a rotational basis so that they will not miss the same class every week. These lessons are graded and are averaged in with their chorus grade. Students must attend a minimum of 3 lessons in a marking period.

Students are required to be at all dress rehearsals and concerts. Students will receive a grade for both performances in December and May as well as dress rehearsals.

A spring trip is planned to a major destination for adjudication, performance, or for educational purposes. To be eligible for field trips, a student must be a member of the ensemble for two consecutive years; exceptions are incoming freshmen, students new to the district, or at the discretion of the director.

MUSIC APPRECIATION (Grades 11-12)**1 credit****CN 483**

The Music Appreciation course is an advanced music course designed to acquaint students with all types of music including advanced and college placement music theory, sight singing, history, composing, and computer applications. Participation in one of the performing groups is beneficial but not necessary.

SENIOR HIGH SCHOOL INSTRUMENTAL PROGRAM (Grades 9-12)**1 credit****CN 782**

Instrumental music is a vital part of Southern Columbia Area. The Senior High Band meets every day of the week for rehearsal. Senior Band begins the first week of August to prepare for the marching and playing drills to be used during football games, competitions, and parades. There will be a Winter Concert in December and a Spring Concert in May. All of which will be prepared on school time. Individual lessons are provided on a rotational basis, so that the student does not miss the same class every week. Ensemble playing includes jazz ensemble, woodwind, brass and percussion are offered on an extra time basis and many participate. Students will also have an opportunity to audition for County Band and District Band. If successful, the student may continue to Regional Band and conclude with state band. A spring trip is planned to major destinations for adjudications, parade and/or for educational purposes. After school practices will be held when needed.

To be eligible for field trips, a student must be a member of the ensemble for two consecutive years; exceptions are incoming freshman, students new to the district, or at the discretion of the director.

The complexity and requirements of band performance necessitates setting a date of June 1st as the deadline for dropping the course. Please value the collective work of all other band members by speaking to the director if you are considering dropping band. We need to be sure of everyone's commitment early.

CO-CURRICULAR ENSEMBLES (Grades 9-12)

Non-credit

Gospel Choir

Students will be able to audition for the Gospel Choir. You must be a member of the Senior High chorus in order to audition for this co-curricular ensemble. The Gospel Choir is the touring Choir which performs in the community, churches, and other venues. Students select the music to be performed throughout the year.

“Encore” Musical Performing Ensemble

Students will be able to audition for the Spring Musical. You must be a member of the Senior High Chorus in order to audition for this co-curricular performing group. The musical will be picked in the fall and then auditions will be held in October. Rehearsal will begin in January. Students will also participate in all facets of the musical promotion. Student auditions will be reviewed by a panel of people/music teachers, and Mrs. Stone.

FAMILY AND CONSUMER SCIENCES

PERSONAL DEVELOPMENT (Grade 9-12)

1 credit

CN 187

Personal Development in ninth grade is a full credit course, meeting every day. The course includes the study of families, friendships, constructing a sewing project using the sewing machine, the study of money management, rights and responsibilities as a consumer, and consumer decision making, and a study of foods, beginning with weight control, meal planning and shopping for food. Students learn about selecting, storing, and preparing foods from the areas of the Food Guide Pyramid. Cooking labs are included with each section.

PARENTING AND CHILD DEVELOPMENT (Grades 10-12) 1 credit

CN 389

This course provides the opportunity to study parenting skills and styles throughout the developmental stages of children. Beginning with the study of prenatal care and development, the course takes the student through many areas and stages of child development. Students will study parenting skills as they relate to the needs of children at each stage. Along with classroom work, students will observe young children and interview parents of these children at various times throughout the course. Learning is applicable to parenting, caring for or working with children, as well as a means of exploring child-related occupational interests.

RELATIONSHIPS (Grades 10-12)

1 credit

CN 374

This course is designed to enable students to form healthy, caring relationships with family members, peers and community. After studying the use of communication skills within relationships, students will be able to improve conflict management skills and increase tolerance awareness. Studying personality development will enhance self-esteem and encompass development of positive mentor skills. The physical, social, and emotional development of the school age child will be addressed prior to student involvement within the elementary school and community. **Enrollment in this course is limited. Students interested in taking this course must complete an application and get teacher references. See Mrs. Bodman if you plan to sign up for this course.**

CONSUMER ECONOMICS/PERSONAL FINANCE (Grade 12) 1/3 credit

CN 479

Consumer Economics/Personal Finance is a senior course, required for graduation, which meets two periods during a six-day rotation. The content covers general areas of consumer and personal skills that will be of benefit to students as they assume adult roles. All student work is kept in individual folders, which they will take with them at the end of the course for future reference.

Covered in this course are the following topics: Determining Values and Goals, Budgeting, Job Search Skills, Insurance, Savings and Investments, Managing a Checking Account, Buying with credit, Basic Income Tax Preparation, Selecting Housing, Purchasing an Automobile, Consumer Rights and Skills.

***SELECT TWO FROM THE LIST OF THREE 1/2 CREDIT COURSES:**

COOKING ON YOUR OWN* (Grades 10-12) 1/2 credit CN 287

Cooking On Your Own is designed to make students better consumers in the grocery store. It will enable the student to make educated food shopping decisions and prepare safe, nutritious meals by him/herself. At the end of the course, each student will have a reference folder that will contain information for future use in buying and preparing food.

HOME DESIGN* (Grades 10-12) 1/2 credit CN 288

This course provides students with the opportunity to develop a background in all aspects of housing. Topics include home styles, reading and drawing floor plans, color and design, furniture styles, room arrangement and kitchen and bath design. A final project lets students create his/her own dream room using the knowledge gained in class.

ADULT LIVING* (Grades 10-12) 1/2 credit CN 756

The quality of your life depends on how well you make decisions concerning your future. Many of these decisions involve your ability to relate well to other people. This course deals with handling relationships. Whether you marry or choose to remain single, the odds are that you will be single at least for a while. Knowing how to manage socially as a single person will be important. Topics include: Dating, Love and Commitment, Maturity in a Relationship.

If marriage is ahead for you, this course can help you prepare for success. Topics include: Customs and Laws, Reasons for Marriage, The Wedding, and Working Together in Marriage.

****THE FOLLOWING MUST BE SCHEDULED TOGETHER**

GLOBAL FOODS (Grades 10-12) 1/2 credit CN 475**

After a brief study of culture and cuisine, and the food supply, students will be exploring foods from around the globe. Units will cover common areas, including the US and Canada, Latin America, Asia, various areas of Europe and Australia. Students will sample foods commonly eaten in the various areas and prepare dishes from difference countries.

DELICIOUS DESSERTS (Grades 10-12) 1/2 credit CN 386**

Dessert is a popular part of the American diet – not only at mealtime but also at social gatherings. Students will use knowledge from previous cooking experiences as a basis for more complex cooking techniques. This course will cover all types of desserts, from cakes and pastries to cookies, candies and gelatin desserts. Students will learn the “hows” and “whys” of various desserts, then make them in foods labs.

MISCELLANEOUS

CHOICES (9th grade) 1/3 credit CN 139

This course is a requirement for all ninth grade students. It is the purpose of this course to address issues that are relevant to today's teen. The following topics will be explored through the utilization of readings, lectures, classroom discussions, and computer/multi T media and individual/group projects: study skills, career exploration, drug/alcohol abuse, sexual harassment, peer pressure, communication skills, high school transition, relationships, and tolerance.

Note: *The Career Exploration Project in this course is the initial phase of the senior graduation project requirement.*

CREDIT FOR COMMUNITY SERVICE**1/2 credit****CN 728**

The Southern Columbia Area School District supports volunteerism in the area of community service. Therefore any student may earn up to one credit a year and four credits during their 9-12 years in school for worthy community service projects. Such credits could be earned in one-half credit increments, which are equivalent to forty (40) community service hours. These credits will be recorded as humanities credits. The credits shall be graded Pass (P) or Fail (F) for completion and shall count toward credits for graduation.

Such community service projects can be student-designed or school-design but must meet the following guidelines:

1. The community service project must have merit as determined by the high school faculty committee (high school principal and six department heads). The faculty committee will use its professional expertise in determining whether a project has merit or not. The decision of the faculty committee is final.
2. The student cannot receive financial remuneration for the project.
3. The project shall be reduced to writing and agreed to by the faculty committee prior to its inception.
4. The student must keep a journal during the project and submit it to the faculty committee for review upon completion of the project.
5. The student will be required to report to a member of the faculty committee periodically as to progress on the project.
6. Projects must be completed prior to the student's graduation from Southern Columbia High School.
7. The faculty committee determines completion and awards credit as appropriate.