

ROCKWOOD AREA SENIOR HIGH

**Course Selection Guide
2024--2025
9TH – 12TH GRADE**



PARENTS & STUDENTS:

Each student will receive a scheduling form. The forms will be handed out during a class discussion led by the guidance counselor regarding scheduling and graduation requirements. The Course Selection Guide can be found on the district website under “Departments,” “Student Services.” Please take time to review this information and plan thoroughly using the course sequence. The scheduling form should be completed together with the student, the teachers and parent/s &/or guardian/s. Additionally, many courses have prerequisites and therefore, must be signed by the appropriate teachers. The teachers will need to see each student’s transcript to verify prerequisites. After teacher signatures are obtained, the scheduling form must then be signed by the student and the parent/s &/or guardian/s. (This ensures that the parents have the opportunity to see what courses the teachers are recommending and that students are choosing.) Students will be required to return their completed scheduling forms to the Guidance Office by the deadline specified on the form. If you have any questions regarding the course scheduling process, please contact the Guidance Office at (814) 926-4833.

The following pages include a description of Rockwood High School’s curriculum and courses offered. Please read the course descriptions carefully, taking note of the course requirements and prerequisites. The clubs and activities offered during 9th period are listed in the back pages as well as the various organizations that students can get involved with.

It is the student’s responsibility to ensure all credits required for graduation are scheduled.
Please note that students in grade 9-12 are required to take a minimum of 26 credits to graduate along with their graduation project and meeting criteria for 1 of the 5 Pennsylvania Department of Education Graduation Pathways.

A minimum of 10 students are required to offer an elective course to the master schedule. If enough students do not request an elective, that course will be cancelled. The students will be notified to choose another elective if necessary. College courses (ACM courses and College in High School Calculus) require a minimum of 5 students.

The following is the current grading standard for Rockwood High School:

Grading Standard

A = 90-100

B= 80-89

C= 70-79

D= 65-69

F= 64 & Below

I = Incomplete

P= Passing

Class Rank

Calculated on a quality point system with all graded subjects from Grades 9, 10, 11, and 12. College, correspondence, online high school programs or private tutoring not sponsored by RASD will not count toward the student’s GPA.

Scheduling Instructions and Important Notes

9th -12th Grade

2024-2025

A copy of your transcript (10th-12th) has been attached to your Course Selection Sheet, listing the courses that you have completed. You will need to show your teachers your transcript for validation of prerequisites. Students must have parent and teacher signatures where indicated. Please bring your transcript to your scheduling appointment. On your transcript, please count and indicate the number of credits you have successfully completed.

As you are planning your schedule, please choose your courses carefully. Remember, if you are interested in taking a class, be certain to choose it on your selection sheet. We must have enough student interest to run a course or to add a course to the master schedule

- Please read all instructions carefully before completing your scheduling form
- Choose your course sequence according to your future plans
- Read the course descriptions and take note of all prerequisites
- Be aware: if you choose a course that you do not meet the prerequisites for, you can be placed in an alternative course
- In most cases you cannot receive credit for a course that you have already taken and earned credit for
- Students planning to attend the Technology Center, please enter the course number for your shop area on your selection sheet
- **GRADUATION CREDIT REQUIREMENTS:** It is the student's responsibility to ensure all credits required for graduation are scheduled. Students must successfully complete 4 credits in each of the major subject areas (Math, English, Science, Social Studies), throughout grades 9-12 in addition to various electives in order to accumulate 26 credits. Additionally, students are required to earn .5 credit of physical education between 10th and 12th grade and earn 1 credit in computer electives between 9th and 12th. 11th grade students will be required to complete a Family Consumer Science .5 credit course according to State requirements. You will notice this course added on your selection sheet under the required courses section. If the course does not fit into a student's schedule, the course may be taken their senior year.
- In addition to other science electives, Engineering and Technology electives **will** count as science electives towards the 4 science credits needed for graduation (2 of the 4 credits must still include Biology and a Physical Science course)
- Complete and return the Student Scheduling Form to the Guidance Office. Failure to meet the deadline on the scheduling sheet will result in the Guidance Department choosing your courses.

Grade 9 Course Sequence

REQUIRED COURSES:

English 9/American Literature I (College Prep or Grade Level)

Biology and Biology Lab ***Keystone Tested Subject**

World Cultures

Math (See Course Progression for Mathematics)

Health and Physical Education

Expos: Career and Foundations of Technology

ELECTIVES:

(Must select at least 1 credit)

Office Applications: Document Processing

Office Applications: Presentation Design and Delivery

Microsoft Web Page Design

Art

Family & Consumer Science

Chorus

Band

Weight lifting

Fitness Exploration

French I

Spanish I

Ceramics

Ag Wildlife

Ag Envirothon

Ag Science – Animal, Advanced Animal, Vet Science, Plant and Soil & Business Ag (The Ag class with the most interest will be offered)

*Engineering & Technology Electives-will also count as Science elective credits

**All 9th graders will attend a tour of the programs offered at SCTC in the fall of their 9th grade year. Interested 9th graders will participate in 9th Grade Experience-which includes a tour of 2 programs of choice at the Somerset County Technology Center (SCTC) during the winter of their 9th grade year. If the student is interested in attending SCTC for their sophomore year, they must turn a SCTC application (found in Guidance) by the beginning of Semester 2 of their freshman year.

Grade 10 Course Sequence

Please note: There are only two lab sciences offered from 10th grade on, Chemistry and Physics. If you plan on attending a 2 or 4 year college you should take these 2 lab sciences.

4 Year College Prep Sequence:

CP English10/CP American Literature II

Chemistry and Lab

American History I

Math (See Course Progression in Mathematics)

*Accounting can be taken as an elective along with any other math course and is recommended for all students interested in pursuing a career in business

Electives:

Foreign Language

Computer Elective - * Note graduation requirement is 1 credit between 9th and 12th grade

Physical Education - * Note graduation requirement is ½ credit between 10th and 12th grade

Science Electives

Family & Consumer Science

Art Electives

Music Electives

Ag Wildlife

Ag Envirothon

Ag Science – Animal, Advanced Animal, Vet Science, Plant and Soil, Ag. Business, Natural Resources, and Ag Production (The Ag class with the most interest will be offered)

*Engineering & Technology Electives-will also count as Science elective credits

2 Year College Prep/Technical School Sequence:

English 10/American Literature II

Chemistry and Lab or General Physical Science

American History I

Math (See Course Progression in Mathematics)

*Accounting can be taken as an elective along with any other math course and is recommended for students interested in pursuing a career in business

Electives: See Above

Somerset County Technology Center (SCTC) Sequence: *Please note that it is important to plan to your schedules accordingly so that all graduation requirements are met.*

English 10/American Literature II

Chemistry or General Physical Science

American History I

Math (See Course Progression in Mathematics)

Your chosen SCTC shop area is worth 3 credits each year that will count toward your graduation requirement. Please be certain to write your shop name and course number on your selection sheet. The shop numbers are listed in the back of this guide.

Grade 11 Course Sequence

4 Year College Prep Sequence:

CP English 11/British Literature I ***Keystone Tested Subject**

Physics and Lab

American History II

Math (See Course Progression in Mathematics)

FACS Survival Skills

Electives: *You should choose electives relative to your post secondary plans

ACM courses

Foreign Language

Computer Elective - * Note graduation requirement is 1 credit between 9th and 12th grade

Physical Education - * Note graduation requirement is ½ credit between 10th and 12th grade

Science Electives

Business Electives

Family & Consumer Science Electives

Art Electives

Music Electives

Ag Science – Animal, Advanced Animal, Vet Science, Plant and Soil & Ag. Business, Natural Resources and Ag Production (The Ag class with the most interest will be offered)

*Engineering & Technology Electives- will also count as Science elective credits

2 Year College Prep/Technical School Sequence:

English 11/British Literature I ***Keystone Tested Subject**

Physics and Lab or General Physical Science

American History II

Math (See Course Progression in Mathematics- planning should be with your current math teacher)*Accounting can be taken as an elective along with any other math course and is recommended for students interested in pursuing a career in business

FACS Survival Skills

Electives: See Above

Technology Center Vocational Sequence:

English 11/British Literature I ***Keystone Tested Subject**

Physics or General Physical Science

American History II

Math (See Course Progression in Mathematics)

Grade 12 Course Sequence

4 Year College Prep Sequence:

CP English 12/British Literature II

Physics II (offered every year if enough students sign up), Chemistry II, and Human Biology/Micro Biology, Advanced Biology (offered every other year) or science relative to your post-secondary major course of study.

American Government I

Math: You should plan your math according to your post-secondary plans along with your current teacher (See Course Progression in Mathematics)

Electives: *You should choose other electives relative to your post secondary plans

ACM courses

Foreign Language

Computer Elective - * Note graduation requirement is 1 credit between 9th and 12th grade

Physical Education - * Note graduation requirement is ½ credit between 10th and 12th grade

English Electives

Business Electives

Family & Consumer Science Electives

Art Electives

Music Electives

Ag Science – Animal, Advanced Animal, Vet Science, Plant and Soil, Ag Business and Ag Production (The Ag class with the most interest will be offered)

*Engineering & Technology Electives- will also count as Science elective credits

2 Year College Prep/Technical School Sequence:

English 12/British Literature II

Science credit should be relative to your post secondary/career plans

American Government

Math: You should plan your math according to your post secondary/career plans along with your current math teacher (See Course Progression in Mathematics)

Electives: See above

Technology Center Vocational Sequence:

English 12/British Literature

Science credit should be relative to your post secondary/career plans

American Government

Math: You should plan your math according to your post secondary/career plans along with your current math teacher.

Course Progression in Mathematics

	Path 1	Path 2	Path 3	Path 4
7th Grade	Intro. To Algebra	PreAlgebra	PreAlgebra	Algebra I
8th Grade	Algebra Concepts A (Below 75% in PreAlgebra)		Fundamental Algebra Concepts (75% or higher in Pre-Algebra)	College Prep Algebra II (75% or higher in Algebra I)
9th Grade	Algebra Concepts B (65% in Algebra Concepts A) or (65%-69% in Fundamental Algebra Concepts)		College Prep Keystone Algebra I/Algebra II (75% or higher in Fundamental Algebra Concepts)	College Prep Geometry
10th Grade	Keystone Algebra I/Algebra II (65% in Algebra Concepts B)or (70%-74% in Fundamental Algebra Concepts)		College Prep Geometry	PreCalculus (80% or higher in Keystone Algebra I/ Algebra II)
11th Grade	Geometry		PreCalculus (80% or higher in Keystone Algebra I/Algebra II) Statistics (65%-79% in Keystone Algebra I/Algebra II) Algebra III (65%-79% in Keystone Algebra I/Algebra II)	Calculus I
12th Grade	Algebra III (70% or higher in Keystone Algebra I/Algebra II) Statistics (70% or higher in Keystone Algebra I/Algebra II) Business Math Accounting		Calculus I PreCalculus (80% or higher Alg III) Statistics (65% or higher in Keystone Algebra I/ Algebra II) Algebra III (Below 70% in Precalculus)	College in HS Calculus

- Please note that Accounting I (high school or college credit) and Accounting II can be taken in addition to any other math course in 10th, 11th and 12th grade.
- Accounting I, Accounting II and/or Business Math courses are highly recommended for any student planning to enter the business field.
- Any math credits taken during 7th and 8th grade will not count towards credits earned for graduation.
- All students are required to take Fundamental Algebra Concepts or Algebra Concepts A & B, Keystone Algebra I/Algebra II, and Geometry. Students must complete 4 math credits to meet graduation requirements. Students may take an Accounting or Business Math course for 1 math credit. Any additional business math courses will count as an elective credit. Students who are planning on attending a 4 year college are encouraged to take the highest level math course as recommended by their current math teacher. Students are permitted to double up math credits, provided the prerequisites have been met.

Course Progression in Science

	Path 1	Path 2	Electives
7th grade	Integrated General Science 7	Integrated General Science 7	
8th grade	Integrated General Science 8	Integrated General Science 8	
9th grade	Biology and Lab	Biology and Lab Any of the Ag Science classes	Ag Envirothon Ag Wildlife Any of the Ag Science classes Technical Design Materials Processing Manufacturing Enterprise
10th grade	Chemistry and Lab	General Physical Science Any of the Ag Science classes	Ag Envirothon Ag Wildlife Any of the Ag Science classes Technical Design Materials Processing Manufacturing Enterprise Energy & Power Systems Engineering Tech & Design
11th grade	Physics and Lab Chemistry II Adv. Biology (2025-2026) Human Biology Micro Biology Forensic Science	General Physical Science Any of the Ag Science classes	Ag Envirothon Ag Wildlife Any of the Ag Science classes Technical Design Materials Processing Manufacturing Enterprise Energy & Power Systems Engineering Tech & Design
12th grade	Physics II/CHS Physics II Chemistry II Adv. Biology (2025-2026) Human Biology Micro Biology Forensic Science	General Physical Science Or electives Ag Envirothon Ag Wildlife Any of the Ag Science classes	Ag Envirothon Ag Wildlife Any of the Ag Science classes Technical Design Materials Processing Manufacturing Enterprise Energy & Power Systems Engineering Tech & Design

Course Progression in English

	Path 1	Path 2	Electives
7th grade	English 7		
8th grade	English 8		
9th grade	English 9/American Literature I	CP English 9/American Literature I	
10th grade	English 10/American Literature II	CP English 10/ American Literature II	Journalism I
11th grade	English 11/British Literature I	CP English 11/British Literature I	Journalism I Journalism II
12th grade	English 12/British Literature II	CP English 12/ British Literature II	Journalism I Journalism II Journalism III Journalism Editor

Course Progression in Social Studies

	Required Courses
7th grade	Civics/ PA History
8th grade	World History and Geography
9th grade	World Cultures
10th grade	American History
11th grade	American History II
12th grade	American Government

PA STATE ASSESSMENT REMEDIATION/TEST PREPARATION COURSES

Students must score advanced or proficient on the PSSA tests. PSSA remediation courses are designed for students in danger of not passing the PSSA tests. Students who did not score advanced or proficient must **meet** the following criteria to be **exempt** from PSSA remediation:

1. Students must score above the 50th percentile on a national standardized test.
2. Students must have an 80% or above in their corresponding course and score above an 80% on the Study Island test.
3. Any other criteria deemed appropriate by the building principal

* The building principal may exempt a student from a remediation course based on proof of successful completion of a pre-approved summer remedial course.

*Study Island is an Internet-Computer-based program that Rockwood School District has purchased to assist students in becoming Proficient or Advanced Proficient on the PSSA. Students that are placed in remediation are supervised in the computer labs as they work on the skills that they are weak in. Students may also use this program at home for additional practice. Time at home however, can not be substituted for scheduled time at school. Students are scheduled for remediation during the 9th period and will not miss any of their regularly scheduled courses or electives.

*The PSSA remediation courses do not have any credit assigned to them. These courses are for remediation and tutoring purposes only. Therefore, they will not be graded.

COLLEGE IN HIGH SCHOOL COURSES

These courses are taught at a college level by Rockwood teachers &/or college teachers who come to Rockwood. In order to offer courses through the Allegany College of Maryland (ACM) at the reduced high school rates, we must have at least 12 students enrolled in a class. Currently, the cost for ACM's 3 credit courses for high school students is approx. \$425.00, plus the cost of any required textbooks (average costs \$100-\$150). It is possible that the school and/or college may receive tuition reimbursement grant moneys. Students pay upfront and some of the **costs may be reimbursed, depending on the Grant.** The grants are typically on a year to year basis and there are no guarantees that the funding will be available from one year to the next. **Each student enrolled will be billed directly through the college. Payments must be submitted in order to remain on the college and high school roster.** If a student has an outstanding balance from a previous semester and payment arrangements have not been made with the college, the student will not be permitted to enroll in another college course until payment is made in full.

It is the college's policy, like other colleges, students are permitted to drop the course after the class begins. However, **Rockwood's policy as stated in the student handbook, does not allow students to drop classes after a certain date unless the listed procedures are carried out.** Students are required to consult with the guidance counselor prior to dropping the course at the college level.

Please note: The cost of these courses (Dual Enrollment and College in High School) are subject to change at the discretion of the various agencies and are the responsibility of parent/student.

ACM CLASS OFFERINGS

(Allegany College of Maryland)

The following college courses will be offered at Rockwood. **Students will be responsible for the reduced college fees that will be billed directly through the college.** Any overdue balance for previously scheduled courses must be paid in full prior to entrance into additional courses.

In addition to the high school credit earned, students will also receive college credit. In order for these classes to run, the college requires a minimum of 8 students. None of the courses may be used as a substitute for any required Rockwood courses. These courses will run on an every other year rotation as per student interest as follows. (.625 credit) Students will need to request a college transcript from ACM if they wish to have the courses transferred to another college upon graduation.

945 – ENGLISH 101: Offered during the Spring semester (2025-2026)

946 – SOCIOLOGY: Offered during the Fall semester (2025-2026)

943 - PSYCHOLOGY: Offered during the Fall semester (2024-2025)

944 - HISTORY: Offered during the Spring semester (2024-2025)

252-COLLEGE IN HIGH SCHOOL ACCOUNTING I: Year -long course (*if completed successfully, student would earn 1.25 for high school credit and 3 college credits).

535-COLLEGE IN HIGH SCHOOL SPANISH IV: Year-long course (*if completed successfully, student would earn 1.25 for high school credit and 3 college credits).

969-SPEECH COMMUNICATIONS: Virtual Course: Offered during the Fall semester (2024-2025)

970-INTRO TO CYBER SECURITY: Virtual Course: Offered during the Spring semester (2024-2025)

COLLEGE IN HIGH SCHOOL COURSES (continued)

St. Francis University

343 – COLLEGE IN HIGH SCHOOL PHYSICS II: 343 Physics II-The pace of the course and the material will be at the Algebra based College Physics class level. Prerequisites are successful completion of Physics I and Algebra with an A or B. Students will study and investigate topics on electricity, magnetism, light, optics, relativity, quantum physics, models of atoms and sub-atomic particles. The course will be offered as an optional Dual Enrollment college course through St. Francis University. Students choosing dual enrollment will need to register and pay for the course credits and fees through St. Francis University. The laboratory portion of this course will be embedded in the regularly scheduled class time. Students will learn how to utilize appropriate technologies in studying physics. A strong emphasis will be placed on the PA anchors and core standards related to physics and process skills related to problem solving, research, engineering, scientific investigation, measurement, mathematics, technology and scientific literacy. Students will complete a midterm and final exam or a research project. (1 credit High School and/or 4 credits college pending enrollment and payment of fees)

575-COLLEGE IN HIGH SCHOOL FRENCH IV- Year-long course (*if completed successfully, student would earn 1.25 for high school credit and 3 college credits).

University of Pittsburgh

246- COLLEGE IN HIGH SCHOOL CALCULUS: Prerequisite: Teacher Approval and obtaining the University of Pittsburgh's minimum score for calculus on their math placement test. Student will be responsible for the cost of the placement test. Student will also be responsible for paying for 4 college credits through the University of Pittsburgh College in High School program. This course follows the university's curriculum. Topics include limits, derivatives and integrals of functions, including the trigonometric, exponential, and logarithmic functions. Applications of these concepts to business, science, and engineering are stressed. Calculator: TI-NSPIRE. Students will complete a midterm and final exam. (1.25 credit)

ONLINE COURSES

ROC (Rockwood Online Curriculum) Courses

The Rockwood Area School District offers online classes through the Odysseyware platform. Online classes are scheduled directly with the Guidance Counselor and administrative approval is necessary to enroll. Several factors will be considered prior to enrolling a student in an online course.

Driver's Education

The Rockwood Area School District no longer operates a Driver Education Program. However, the Brant Driving School offers an independent Driver Education Program to Rockwood students. Students who are interested in the program may obtain contact information from the guidance office. Students who participate in the program will be provided with a post-completion scholarship. The parent/student will be responsible for the fee of the course upfront, then once the student successfully completes the program the certification of completion can be presented to the business office for reimbursement for all but \$50.00 of the cost of the program. Students who successfully complete the program will earn a .5 elective credit. The .5 credit will not count towards the student's GPA/QPA.

ENGLISH

131-GRADE 9-ENGLISH / AMERICAN LITERATURE I: This course is designed for all ninth grade students. This course is designed to meet the needs of students who may want to further their education in any level after high school. They will study American literature, as well as Shakespeare. Students respond to literature by writing narrative, descriptive and analytical essays and journals. Additionally, students practice grammar, usage and conventions through reinforcement activities. Literature skills will be taught and evaluated according to the criteria provided in the Pennsylvania Core Standards. American Literature will also be studied. Students will respond to texts by writing in a variety of ways that may include literary analysis, extended definition, cause and effect, persuasion, problem-solution, character description, and journal writing. Collaborative learning is a critical component of the course. Computer technology is used in research and writing development. (1 credit)

132- GRADE 9-COLLEGE PREP-ENGLISH 9/AMERICAN LITERATURE I:
Prerequisite: 85% in English 8 and teacher approval. This course is designed with additional rigor to prepare ninth grade students for a path to college. This course reviews and strengthens previously acquired language skills while introducing more sophisticated concepts. Students respond to literature by writing narrative, descriptive and analytical essays and journals. Literature skills will be taught and evaluated according to the criteria provided in the Pennsylvania Core Standards. American Literature will be studied, as well as Shakespeare. Students will respond to texts by writing in a variety of ways that may include literary analysis, extended definition, cause and effect, persuasion, problem-solution, character description, and journal writing. These writing assignments and essays are longer and more challenging than the writing assignments in the English 9 course. Computer technology is used in research and writing development. Additionally, collaborative learning is a critical component of the course.(1 credit)

125 - GRADE 9 – CAREER EXPO: This semester course is designed to provide a systematic approach to the career planning process. The course is conceptually divided into two focuses: an exploration of student interests in the working world and real world occupational expectations. Students will identify their personality types, interests, skills, and job values; begin to define goals for their lives; match themselves to career and educational options; and set career and educational goals and plans. Participants will conduct career research and complete a career research project. Students will also learn job interview and budget basics. A student who has completed this course should be better able to manage their own career development. Students will gather information on a career, write a paper summarizing aspects of that career, and correctly cite sources they have used. (.25 credits)

141- GRADE 10 - ENGLISH 10/AMERICAN LITERATURE II: This course is a similar but less rigorous version of the college preparatory section. This course is designed to meet the needs of students who may want to further their education in any level after high school. American Literature will also be studied. Students will be expected to develop and demonstrate competency in all Pennsylvania Core Standards, and will be expected to do guided and supported work in both writing and literature. Material covered includes plays, short stories, nonfiction material and Shakespeare. Students will begin writing resumes and letters of interest and complete various applications. Students enrolled in this course will have the opportunity to take the PSAT exam in October. The costs of the exam will be paid by the Rockwood School District. Students will complete a midterm and final exam. (1 credit)

ENGLISH

142 - GRADE 10 – COLLEGE PREP ENGLISH 10/AMERICAN LITERATURE II:

Prerequisite: 85% or higher in CP English 9 and teacher approval. This course reviews and strengthens previously acquired language skills while introducing more sophisticated concepts. Students analyze the elements of fiction in such works as Shakespeare's *Hamlet*, and other classic American novels. Students respond to literature by writing narrative, descriptive and analytical essays and journals. Literature skills will be taught and evaluated according to the criteria provided in the Pennsylvania Core Standards; these skills will be measured through the Keystone Literature Exam, which students will take in 11th grade. American Literature will also be studied. Students will begin the process of writing resumes and letters of interest and completing various applications. All students enrolled in the college prep section will be required to take the PSAT exam in October. The costs for the exam will be paid for by the Rockwood School District. Additionally, students strengthen skills through SAT vocabulary lessons. Students will complete a midterm and final exam. (1 credit)

151- GRADE 11 –ENGLISH 11/BRITISH LITERATURE I: This course is recommended for all juniors interested in developing standard writing and literary assessment skills. Students will be expected to develop and demonstrate competency in all Pennsylvania Core Standards, and will be expected to do guided and supported work in both writing and literature. Students will complete a research paper with proper citation. This paper will require students to research and construct material based on a teacher-approved novel. Students will be expected to read two novels and be able to develop an adequate understanding of them. Other material covered includes plays, short stories, nonfiction material and the play *Macbeth*. Preparation for Keystone Literature testing is also included, and is focused on intensely; students will take the exam at this grade level. Students will also develop a resume and cover letter, update and expand their career portfolio, and interview a person in their desired profession. British literature will be studied through *Beowulf*, *The Canterbury Tales*, and other poems, short stories, and novels. Students enrolled in this course who are planning to continue with post-educational studies may register to take the SAT exam in the fall and the spring at Rockwood. The costs of the exam will be paid by the Rockwood School District. Students will complete a midterm and final exam. **This is a Keystone related course and the test is required to be taken during the official testing window. Students who do not score proficient or above on the test will be assigned to Core Support during 9th period .** (1 credit)

152- GRADE 11 –COLLEGE PREP ENGLISH 11/BRITISH LITERATURE I

Prerequisite: 85% or higher in CP English/American Literature 10 and teacher approval. This course is recommended for all juniors interested in rigorous advanced writing and literary assessment skills. Students will be expected to conform to and excel in all Pennsylvania Core Standards, and will be expected to do in-depth and independent work in both writing and literature. Students should be motivated and will complete a lengthy research paper with proper citation. This paper will require students to write, read, analyze and construct material based on a teacher-approved novel. Students will be expected to read several novels and be able to utilize higher level thinking skills to assess them. Other material covered includes plays, short stories, nonfiction material and the play *Macbeth*. British literature will be studied through *Beowulf*, *The Canterbury Tales*, and other poems, short stories, and novels. Preparation for Keystone Literature testing is also included, and is focused on intensely; students will take the exam at this grade level. Students will also develop a resume and cover letter, update and expand their career portfolio, and interview a person in their desired profession. Additionally, all students enrolled in the college prep section will take the SAT exam in the fall and in the spring at Rockwood. The costs for the exam will be paid for by the Rockwood School District.

ENGLISH (cont.)

Students will complete a midterm and final exam. **This is a Keystone related course and the test is required to be taken during the official testing window. Students who do not score proficient or above on the test will be assigned to Core Support during 9th period.** (1 credit)

161 - GRADE 12 –ENGLISH 12/BRITISH LITERATURE II: This course is a similar but less rigorous version of the college preparatory section. This course is designed to meet the needs of students who may want to further their education in any level after high school. Students will be expected to develop and demonstrate competency in all Pennsylvania Core Standards, and will be expected to guided and supported work in both writing and literature. British literature will be studied through Shakespeare's *Othello*, and other poems, short stories, and novels. Students will practice analytical essays as well as developing communication skills. An emphasis will be placed on problem solving skills, and each student will research, plan, and write a research paper on a selected and approved topic using proper citation skills. For their career portfolio, students will participate in mock interviews. Students will also have materials prepared for potential professional employment. Students will complete a midterm and final exam. (1 credit)

162 - GRADE 12 – COLLEGE PREPARATORY ENGLISH 12 /BRITISH LITERATURE II: Prerequisite: 85% or higher in College Prep English 11 and teacher approval. This course is recommended for all seniors interested in rigorous advanced writing and literary assessment skills. This course is designed to meet the needs of students who want to attend a post-secondary institution to further their education. Students will be expected to develop and demonstrate competency in all Pennsylvania Core Standards, and will be expected to do guided and supported work in both writing and literature. British literature will be studied through Shakespeare's *Othello*, and other poems, short stories, and novels. Students will be expected to read novels independently and write a critical analysis of the text. Students will practice analytical essays as well as develop communication skills. An emphasis will be placed on critical thinking skills. Students should be motivated and will complete a lengthy research paper with proper citation. This paper will require students to read, analyze, and write a thesis based on a selected and approved topic using proper citation skills. For their career portfolio, students will participate in mock interviews. Students will also have materials prepared for potential professional employment. Students will complete a midterm and final exam. (1 credit)

ENGLISH

148 – JOURNALISM I: Teacher signature required. This is a semester course for students who wish to work on the school newspaper, *The Rohistat*, or who wish to explore a career in journalism. The course incorporates extensive research skills; investigative reporting; expository, editorial, and journalistic writing skills; the writing process; and problem solving techniques. Students work as a collaborative team to brainstorm school issues, select articles, create layouts, and market the paper to the school. In addition, photographers and artists who will be on staff are responsible for visual components of the paper. (.5 credit)

149 – JOURNALISM II – Prerequisite: 85% in Journalism I and teacher approval. Students will continue to master skills essential to newspaper writing, layout and production. This course will enhance the skills developed in Journalism I by emphasizing the editing and publishing of a student publication. (.5 credit)

146 - JOURNALISM III- Prerequisite: 85% in Journalism II and teacher approval. Students will continue to master skills essential to newspaper writing, layout and production. This course will enhance the skills developed in Journalism II by emphasizing the editing and publishing of a student publication. (.5 Credit)

150 – JOURNALISM EDITING: Prerequisite 90% in Journalism II or Journalism III and teacher approval. Newspaper Editors have the daily responsibility of deciding which news stories are printed in the paper. Before the paper is published, the Editor assigns reporters to cover the news, checks for accuracy and fairness in the newspaper's articles and writes headlines. (.5 credit)

145- FREELANCE WRITER- This is an option for students that do not have room in their academic schedule for Journalism. Freelance writers have the opportunity to write for the school newspaper, the local newspaper, and journalism contests. Completion of freelance writing earns seniority on the journalism staff and the ability to start the following year at the next level in journalism. This option requires strong writing skills and permission from the teacher. This class will not be worth any credits and will not be counted towards GPA.

These courses are designed to prepare students for collegiate work; many 4 year colleges/universities require at least 2 years of a foreign language. Students not planning on college may select them if there is a personal desire to acquire a foreign language.

SPANISH

531 - SPANISH I: Students will learn to speak, read, and write in Spanish in the present tense, with an emphasis on communication skills in order to listen and comprehend Spanish speakers. Curriculum is aligned with foreign language standards. Students will continue to be exposed to the Spanish-speaking world and its culture. Students are also eligible, beginning in Spanish 1, to participate in field trips in which they experience more Spanish-speaking culture and utilize what they have learned. Students will complete a mid-term and final exam. (1 credit)

532 - SPANISH II: Prerequisite: Students must have obtained a 75% in Spanish 1 and teacher approval. Students will continue to expand their listening, speaking, reading and writing skills. They will learn more advanced compositional skills, with emphasis on expanding their functional vocabulary and conversational abilities. Curriculum is aligned with foreign language standards. Students will complete a mid-term and final exam. (1 credit)

533 - SPANISH III: Prerequisite: Students must have obtained 80% or better in Spanish II and teacher approval. This course is a continuation of Spanish 2; it will be conducted predominantly in Spanish. Curriculum is aligned with foreign language standards. Students will complete a mid-term and final exam. (1 credit)

534 - SPANISH IV: Prerequisite: Students must obtain at least an 85% in Spanish 3 and teacher approval. This course will also be conducted predominantly in Spanish. Students will continue to expand their listening, speaking/conversational, reading and writing skills, focusing on increasing communication activities. Curriculum is aligned with foreign language standards. Students will also read an array of Spanish literature. Students will also watch and discuss Spanish films. Students will complete a midterm and final exam. (1 credit)

**This course is also offered as a dual enrollment course through ACM. The curriculum is the same as described above. There is a cost associated with the dual enrollment course. Students who enroll in the dual enrollment course will earn 1.25 high school credits and 3 college credits if completed successfully.*

FRENCH

571- FRENCH I: Students will learn to speak, read, and write in French in the present, with an emphasis on communication skills in order to listen and comprehend French speakers. Curriculum is aligned with foreign language standards. Students will continue to be exposed to the French-speaking world and its culture. Students are also eligible, beginning in French 1, to participate in fieldtrips in which they experience more French-speaking culture and utilize what they have learned. Students will complete a midterm and final exam. (1 credit)

572- FRENCH II: Prerequisite: Students must have obtained a 75% in French 1 and teacher approval. Students will continue to expand their listening, speaking, reading and writing skills. They will learn more advanced compositional skills, with emphasis on expanding their functional vocabulary and conversational abilities. Curriculum is aligned with foreign language standards. Students will complete a midterm and final exam (1 credit)

573- FRENCH III: Prerequisite: Students must have obtained an 80% in French 2 and teacher approval. This course is a continuation of French 2; it will be conducted predominantly in French. Curriculum is aligned with foreign language standards. Students will complete a midterm and final exam (1 credit)

574- FRENCH IV: Prerequisite: Students must have obtained an 85% in French 3 and teacher approval. This course will also be conducted predominantly in French. Students will continue to expand their listening, speaking / conversational, reading and writing skills, focusing on increasing communicational activities. Curriculum is aligned with foreign language standards. Students will read an array of French literature. Students will also watch and discuss French films. Students will complete a midterm and final exam (1 credit)

**This course is also offered as a dual enrollment course through St. Francis. The curriculum is the same as described above. There is a cost associated with the dual enrollment course. Students who enroll in the dual enrollment course will earn 1.25 high school credits and 3 college credits if completed successfully.*

MATH

224 - ALGEBRA CONCEPTS B: This is a study of algebra from basic operations through linear functions. Topics in the class include exponents and roots, solving equations, formulas, linear functions, graphing data, systems of equations and inequalities, working with polynomials, nonlinear equations, data analysis and probability, and mathematical functions. Students will complete a midterm and final exam. (1 credit)

225 – FUNDAMENTAL ALGEBRA CONCEPTS: This course covers all foundations of Algebra and is the basis for future academic mathematics courses. Students will review previous topics at an application level as well as be introduced to new concepts including linear systems, factoring polynomials, graphing, and quadratic functions. Students will complete a midterm and final exam. (1 credit)

228 –KEYSTONE ALGEBRA I/ALGEBRA II: This course is a study of algebra topics from polynomials through quadratic functions. Topics in the class include operations with polynomials, factoring, quadratic equations, and quadratic functions, systems of equations, inequalities, statistics, and probability. Students will complete a midterm and final exam. (1 credit) **This is a Keystone related course and the test is required to be taken during the official testing window. Students who do not score proficient or above on the test will be assigned to Core Support during 9th period .**

237 – COLLEGE PREP KEYSTONE ALGEBRA I/ALGEBRA II: Prerequisite: 75% or higher in Algebra I and teacher approval. This academic course is a continuation of Algebra I, providing of more in-depth study of prior topics as well as the introduction of new topics including equations/inequalities, systems, quadratics, polynomials, radical functions, rational exponents, sequences/series, and probability. Mastering these topics takes a serious, concentrated effort; therefore, students must be prepared to spend additional time studying outside of the classroom. Students will complete a midterm and final exam. (1 credit) **This is a Keystone related course and the test is required to be taken during the official testing window. Students who do not score proficient or above on the test will be assigned to Core Support during 9th period .**

230 -GEOMETRY: This course is a study of the following geometric topics: lines and angles, two dimensional geometry, three dimensional geometry, right triangles, geometry applications, spatial visualization, trigonometric functions, coordinate geometry, logic, and transformations. Students will complete a midterm and final exam. (1 credit)

229 –COLLEGE PREP GEOMETRY: Prerequisite: Teacher Recommendation-Geometry is the study of many concepts including logic, angles, lines, triangles, and circles. This course discusses the use of proofs to demonstrate the truth of certain statements. Students will complete a midterm and final exam. (1 credit)

234 - ALGEBRA III: This course is a study of the following topics: Exponential and Logarithmic Functions, Rational Functions, Quadratic Relations, and Sequences and Series. Practical applications will be stressed. Frequent use of the graphing calculator will be made. (1 credit)

241 - STATISTICS: Offered to 11th & 12th grade students. This course is recommended for all academic students. It will cover the analysis of data through descriptive statistics such as calculating the measures of central tendencies and using charts such as scatterplots, boxplots, and normal density curves to explain patterns and to make informal conclusions. Next, sampling techniques and designs will be presented. The course finishes with inference statistics used to make formal conclusions about the population from sample data such as basic confidence interval, basic significance testing, and chi square testing. Calculator: TI-84 Plus. Students will complete a midterm and final exam. (1 credit)

236 - PRECALCULUS: This year-long course will include the study of trigonometry and algebra/functions and their applications. Students will complete a midterm and a final exam. (1 credit)

238 - CALCULUS: This course is a study of limits, derivatives, integrals and their applications. Calculator: TI-NSPIRE. Students will complete a midterm and final exam. (1 credit)

246- COLLEGE IN HIGH SCHOOL CALCULUS: Prerequisite: Teacher Approval and obtaining the University of Pittsburgh's minimum score for calculus on their math placement test. Student will be responsible for the cost of the placement test. Student will also be responsible for paying for 4 college credits through the University of Pittsburgh College in High School program. This course follows the university's curriculum. Topics include limits, derivatives and integrals of functions, including the trigonometric, exponential, and logarithmic functions. Applications of these concepts to business, science, and engineering are stressed. Calculator: TI-NSPIRE. Students will complete a midterm and final exam. (1.25 credit)

BUSINESS TECHNOLOGY

244 - BUSINESS MATH: 12th Grade- 1-year course. Students use arithmetic skills to solve a variety of business and personal problems. The class deals with topics such as bank accounts, reconciliation, payroll registers—regular, overtime, and commissions, fringe benefits and payroll deductions and taxes. Additional topics include savings, investing, home and business expenses, taxes and insurance, business buying, pricing and selling their products and consumer marketing studies. Students will complete a midterm and final exam. (1 credit)

252 - ACCOUNTING I: 10th, 11th, 12th Grade- Year-long course. The study of high school accounting offers a starting point for students who have a variety of career objectives. Such study will provide beginning vocational preparation for a career in accounting, accounting knowledge and skill needed for careers in related business fields, and will serve as a foundation on which to continue studying business and accounting at the collegiate level. Students will learn the complete accounting cycle for businesses organized as a proprietorship and partnership using journals, ledgers, work sheets and financial statements. Students will also complete automated accounting exercises and a business simulation. Students will complete a midterm and final exam. (1 credit). **This course is also offered as a dual enrollment course through ACM. The curriculum is the same as described above. There is a cost associated with the dual enrollment course. Students who enroll in the dual enrollment course will earn 1.25 high school credits and 3 college credits if completed successfully.*

253 - ACCOUNTING II: 11th or 12th Grade- Year-long course- Prerequisite: Must have successfully completed Accounting I – This course furthers the study of accounting and prepares students for careers in the business world. New topics included in Accounting II comprise of discounts, returns and allowances, payroll, uncollectible accounts receivable, plant assets and depreciation, notes and interest and accrued items. Accounting II teaches the accounting cycle for a merchandising business organized as a corporation utilizing special journals. An automated accounting simulation project is also completed. Students will complete a midterm and final exam. (1 credit)

255 – PRE-LAW AND BUSINESS MANAGEMENT: 10TH, 11TH & 12 This class will introduce the students to the social, economic, legal and ethical business environment as well as decision-making procedures and credit and collection procedures. (.5 credit)

COMPUTER TECHNOLOGY

264 – OFFICE APPLICATIONS: DOCUMENT PROCESSING: Students will experience some of the more practical functions of Microsoft Word including tables, desktop publishing, mail merges, research tools and other more advanced features. (.5 credits)

265 – OFFICE APPLICATIONS: SPREADSHEET PROCESSING: Prerequisites: Students must have attained 70% or better in one High School Math course. In this course students design and manipulate formulas and functions in the MS Excel Workbook Application. (.5 credit)

266 –OFFICE APPLICATIONS: PRESENTATION DESIGN AND DELIVERY: Students will be taught the basic concepts needed to create effective presentations that can be delivered through a variety of media. Students will then create several presentations to apply the knowledge that has been learned. Other programs, including Sony Vegas, Microsoft Video Editor and other audio/digital video editing tools are integrated into this course. (.5 credit)

268 - WEB PAGE DESIGN: In this course students will learn HTML and other computer programming languages and applications that will be used to design, create and update Web Pages. (.5 credit)

262-BROADCAST PRODUCTION: This course will provide opportunities for students to plan, write, direct, and edit authentic video productions to be aired on an unlisted district channel using an online digital video platform. In addition to using studio equipment, students will learn advanced digital video editing techniques and use a variety of audio and video editing programs. Prior experience in organizations that provide public speaking opportunities such as FBLA, Speech, or Journalism is recommended, but not required.(.5 credit)

SCIENCE

Please note: Three lab sciences are offered at Rockwood, Biology, Chemistry and Physics. A separate lab period is required for these classes.

321 - BIOLOGY: Prerequisite: Must pass 8th grade Science. This course is required for all 9th Grade students and is a KEYSTONE Biology Course. This course begins with a consideration of the living condition and the unique properties of living organisms that set life apart from the non-living. Units of molecular and cellular biology provide the foundation for an understanding of reproduction, organic variation, and methods of scientific classification. Zoology forms the basic material of the second semester, beginning with the invertebrate animal life and the vertebrates in logical sequence presenting a survey of the animal kingdom. Students will complete a midterm and final exam. **This is a Keystone related course and the test is required to be taken during the official testing window. Students who do not score proficient or above on the test will be assigned to Core Support during 9th period.** (1 credit)

324- BIOLOGY LABORATORY: Prerequisite: Concurrently enrolled in Biology. This course is in conjunction with the Academic Biology course and is part of the Keystone Biology class. Laboratory exercises, activities and projects are investigated for an understanding of the topics and concepts discussed during the Academic Biology class. It will provide a hands- on foundation for an understanding of the units covered during the class. This is a .5 credit class meeting every other day. (.5 credit)

344 – ADVANCED BIOLOGY: Prerequisite: 80% in biology and chemistry, as well as teacher approval. This course is designed for students considering updating and furthering their knowledge in biology or will be attending a higher educational course in the biological sciences. More complex and intense than the regular academic course, students will cover major biological concepts in depth with the incorporation of mathematics skills in laboratory exercises. Long-term investigations and projects will be assigned with the utilization of computer technology. **This course will be offered every other year. The next scheduled rotation will be for the 2025-2026 school year.** Students will complete a midterm and final exam. (1 credit)

346 - HUMAN BIOLOGY: Prerequisite: Course Teacher Approval and Chemistry. Offered to 11th and 12th grade students, this course is designed for students contemplating a career in the medical field. The students should have an adequate background in Biology and Chemistry. Using a college level text, students will be introduced to the major systems of the body and will learn the basic parts of each of those systems. This course is also hands-on with some dissection of organs possible. Students will complete a final exam. (.5 credit)

347 - MICROBIOLOGY: Prerequisite: Course Teacher Approval and Chemistry. This semester course is designed for students contemplating a career in the medical field. The students should have an adequate background in Biology and Chemistry. Using a college level test and criteria, major emphasis is placed on the microbes and their metabolism, aseptic techniques in the laboratory and immunology. Secondly, there is some focus on the practical applications of microbiology, both industrially and medically. Students will complete a final exam. (.5 credit)

340 - FORENSIC SCIENCE: Prerequisite: 80% or better in Biology and Chemistry as well as Teacher Approval. This semester course is for those students who are interested in introductory forensic science. Its primary focus is on practicing forensic science and analyzing physical evidence found at crime scenes. Students will complete a final exam. (.5 credit)

329 - CHEMISTRY: Prerequisite: Must have an 80% in Algebra Concepts, concurrent with Keystone Algebra I/Algebra II, and math teacher approval (signature required). This is a general chemistry course that provides a sound treatment of the principles of chemistry at a level suitable for the high school student of average ability. Much of the course is cumulative which begins with an examination of matter, its building blocks and the arrangements of these basic units within the Periodic Table. At this point students are prepared to examine chemical bonding, formulas, compounds, equations, and reactions using stoichiometry. Physical and molecular characteristics of gases are studied with solutions and their colligative properties to follow. Reaction energy and kinetics precede an introduction to the chemistry of acids and bases. Students will complete a midterm and final exam. (1 credit)

330 - CHEMISTRY LAB: Prerequisite: Concurrently enrolled in Chemistry. Chemistry Lab is a period every other day devoted to the experimental application of those concepts presented in the classroom study of chemistry. (.5 credit)

327 - GENERAL PHYSICAL SCIENCE: Prerequisite: Must have passed Biology. This course is intended for students who are not taking higher math courses and not planning on attending a four year college (This course is not considered a lab science by college standards). The course will cover both Chemistry and Physics topics including: the fundamentals of the Nature of Science, Science Skills, Properties of Matter, States of Matter, Atomic Structure, Periodic Properties of Elements, Chemical Bonds, Chemical Reactions, Acids and Bases, Motion, Forces, Fluids, Mechanics, Energy, Thermodynamics, Waves, Electricity, and Magnetism. Projects and lab work will also be included in the student's grade. Students will complete a midterm and final exam. (1credit)

345 – CHEMISTRY II: Offered to 11th and 12th grades. Prerequisite: 80% or better in Chemistry and Keystone Algebra I/Algebra II, as well as Teacher Approval. This course offers advanced studies in chemistry and is intended for students considering a career in Chemistry or Science related field. The pace of this course as well as the material will be at a college level. **This course will be offered on an every other year rotation. It will be offered during the 2024-2025 school year.** Students will complete a midterm and final exam. (1 credit)

341 - PHYSICS: Prerequisite: Must have 80% in Keystone Algebra I/Algebra II and enrolled in concurrently (or have already taken) Algebra III/Trig or Precalculus. A student should take Chemistry prior to physics or have the instructor's recommendation as the mathematical skills from Chemistry are reinforced in Physics. This course will focus on kinematics/mechanics, energy, thermodynamics and waves. Students will complete a midterm and final exam. (1 credit)

342 - PHYSICS LAB: Prerequisite: Must be concurrently enrolled in Physics. Physics Lab is a period every other day devoted to actually observing the fundamental laws of physics in action. Physics lab investigates the basic laws of nature. Each of the concepts studied can be relatively observed by measurements of distances, forces and time. As a result of student measurements, not only will concepts be verified, students will also acquire skills they can use the rest of their life, no matter what their future endeavors may be. (.5 credit)

343- PHYSICS II-The pace of the course and the material will be at the Algebra based College Physics class level. Prerequisites are successful completion of Physics I and Fundamental Algebra Concepts with an A or B. Students will study and investigate topics on electricity, magnetism, light, optics, relativity, quantum physics, models of atoms and sub-atomic particles. The course will be offered as an optional dual enrollment college course through St. Francis University. Students choosing dual enrollment will need to register and pay for the course credits and fees through St. Francis University. The laboratory portion of this course will be embedded in the regularly scheduled class time. Students will learn how to utilize appropriate technologies in studying physics. A strong emphasis will be placed on the PA anchors and core standards related to physics and process skills related to problem solving, research, engineering, scientific investigation, measurement, mathematics, technology and scientific literacy. Students will complete a midterm and final exam or a research project. (1 credit High School and/or 4 credits college pending enrollment and payment of fees)
**This course is also offered as a dual enrollment course through St. Francis. The curriculum is the same as described above. There is a cost associated with the dual enrollment course. Students who enroll in the dual enrollment course will earn 1.25 high school credits and 4 college credits if completed successfully.*

AGRICULTURAL SCIENCE

****Students who are enrolled in ANY of the Agricultural Science classes will need to complete a SAE project book. The SAE project book is graded as a pass/fail, therefore it will not be included in your GPA. If the SAE project is completed successfully you will earn .5 credit.**

320- NATURAL RESOURCES/AG ENVIRONMENTAL SCIENCE: This course will provide a basic introduction to the field of natural resources management. Natural resources include both renewable resources such as soil, forests, water, and wildlife, and nonrenewable resources such as oil, metals and minerals. Current issues dealing with the conservation and management of wildlife will provide most of the examples for illustrating concepts that are generally applicable to the entire field. Students explore hands-on projects and activities while studying topics such as land use, water quality, stewardship, and environmental agencies. Study of the natural world including biomes, land, air, water, energy, use and care as well as a focus on issues surrounding man's interaction with the Earth is addressed in this course. Students select an ecosystem to study throughout the course and apply principles of natural resources and ecology from each unit of study to that ecosystem. (.5 credit)

323 – AGRICULTURE GENERAL SCIENCE PENNSYLVANIA ENVIROTHON: (Grades 9 – 12) In this semester course students study current environmental topics. The areas include soil management, forest management, aquatic organisms and water quality, wildlife management and one special conversation or environmental issue. **Students in this class are considered FFA members and must complete a SAE (Supervised Agricultural Experience) project book to fulfill the requirements of the class (.5 credit)**

325 – AGRICULTURE SCIENCE PENNSYLVANIA WILDLIFE: (Grades 9 – 12) In this semester course students identify Pennsylvania wildlife, which includes: animal tracks, animal signs, bird calls, PA mammals, conservation issues and habitat requirements. Game laws, wildlife vocabulary, and hunter ethics are reviewed. This is an advanced level science elective that requires a significant amount of independent reading and studying. **Students in this class are considered FFA members and must complete a SAE (Supervised Agriculture Experience) project book to fulfill the requirements of the class (.5 credit)**

326-AGRICULTURAL SCIENCE -ANIMAL SCIENCE: (Grades 9 – 12) This course is designed to provide students with knowledge about livestock classifications, livestock domestication, livestock handling, livestock behavior, cells, external animal anatomy, animal organ/muscular/skeletal/nervous/circulatory systems, and livestock showing and judging. Students will apply the content and resources through laboratory experiments and projects assigned throughout the semester. Students will be dissecting during some of the lab activities. **Students in this class are considered FFA members and must complete a SAE (Supervised Agriculture Experience) project book to fulfill the requirements of the class (.5 credit)**

331-AGRICULTURE SCIENCE -ADVANCED ANIMAL SCIENCE: Prerequisite: Passed Ag Animal Science. This course is designed to provide students with advanced knowledge of specific animal species. Students will complete in-depth coursework on the dairy industry, beef industry, swine industry, fiber industry, horse industry, etc. Students will meet with local producers to discuss these industries. Students will apply the content and resources through laboratory experiments and projects assigned throughout the semester. **Students in this class are considered FFA members and must complete a SAE (Supervised Agriculture Experience) project book to fulfill the requirements of the class (.5 credit)**

332-AGRICULTURE SCIENCE -VETERINARY SCIENCE: (Grades 9 – 12) Prerequisite: Must be in good academic science standing in Grade 8 or have passed Biology. This course is designed to provide students with knowledge about proper basic care and husbandry of animals as well as the monitoring of general animal health indicators. This course emphasizes the proper handling and restraint of animals for examinations and medical procedures. Students will be expected to care for veterinary supplies with an emphasis on meticulous disinfection, sterilization and infection control measures. Students will apply the content and resources through laboratory experiments and projects assigned throughout the semester. Students will be dissecting during some of the lab activities. **Students in this class are considered FFA members and must complete a SAE (Supervised Agriculture Experience) project book to fulfill the requirements of the class (.5 credit)**

333-AGRICULTURE SCIENCE -PLANT AND SOIL SCIENCE:(Grades 9 – 12) This course introduces students to all aspects of botany and its practical uses. The major topics that are studied are: plant structure and function, how plants grow, photosynthesize, reproduce, respond and adapt to their environment(s), crop science, fertilizer and nutrient management, and soil science. Students will apply the content and resources through laboratory experiments and projects assigned throughout the semester. **Students in this class are considered FFA members and must complete a SAE (Supervised Agriculture Experience) project book to fulfill the requirements of the class (.5 credit)**

334-AGRICULTURE SCIENCE - AGRICULTURE BUSINESS: (Grades 10-12) Prerequisite: Passed any other Ag Science class. This course introduces students to agriculture business: Agriculture Business in today's society, agriculture economics, Ag business planning and analysis, management, sales, and career development. Students will be expected to complete a capstone project at the close of the semester outlining what they have learned and how they applied that to an agriculture business scenario. **Students in this class are considered FFA members and must complete a SAE (Supervised Agriculture Experience) project book to fulfill the requirements of the class (.5 credit)**

336-ADVANCED PRODUCTION AGRICULTURE (Grades 10-12th)- Prerequisite: Passed any other Ag Science class. A systems approach to animal and crop production. Focuses on activities, which occur in the production cycle for the fall and spring of the year. Topics include: dairy and beef management and herd health, operating enterprises producing cereal grain, fiber, forage, oilseed, tree fruits, vegetables and other plant products and includes instruction in soils, plant physiology, crop cultivation practices, plant diseases, pest management, harvesting and marketing. This course would be offered on a rotation with other agricultural courses.

920- SUPERVISED AGRICULTURAL EXPERIENCE- INDEPENDENT STUDY (.5 credit)
This course is offered as a pass/fail course for students who would like to be in FFA, but have an extenuating circumstance that does not allow them to be in the regular agriculture program course of study. This specialized course is designed for those students aspiring to further develop their Supervised Agricultural Experience. The emphasis of this course is on hands-on learning and applying lessons to meet the needs of all students. Students in this course will work directly with the Agriculture Department. This independent study course includes putting together activity-based lessons relating to the SAEs of the enrolled students. Some of the areas that lessons will focus around will be: Dairy Production, Beef Production, Poultry Production, Sheep Production, Horticultural Science, Food Science / Agricultural Processing, Agricultural Education, Agriscience Applications, Agribusiness, Landscape Management, Crop Science, and any other agricultural applications students wish to pursue. Students in this course of study will have a visit to their SAE project from Mrs. Weimer during the year, which is mandated by the PA Department of Education.

ENGINEERING & TECHNOLOGY

***Courses noted with an * will be counted as Science electives**

The Engineering & Technology is founded on national standards and the PA Academic Standards for Science Technology & Engineering. Students participating in the program will be learning concepts and principals in a problem solving / activity based environment. The goal of the program is for the development of Technological Literacy delivered in the context of Science, Technology, Engineering, and Math (STEM) for students in grades 9-12. Technological Literacy is our ability to understand, evaluate, use, manage, and create technology. It involves the application of both knowledge and abilities to real-world situations. Technology is the application of tools, materials, process, and systems by humans to solve problems and provide benefits to humankind. In short, Technology is human innovation in action!

919 – FOUNDATIONS OF TECHNOLOGY: (Semester Class) This is a required 9th grade expo course. This class will focus on the development of knowledge and skills regarding the following aspects of technology: 1) its evolution, 2) systems, 3) core concepts, 4) design, and 5) utilization to develop the characteristics of technologically literate citizens. Students will develop an understanding of the influence of technology on history by exploring how people of all times and places have

increased their capability by using their unique skills to innovate, improvise, and invent. This will be accomplished with student participation in group and individual activities in creating ideas, developing innovations, and engineering practical solutions to design briefs. Technology content, resources, and laboratory/class room activities will apply student applications of science, mathematics, and other school subjects in real world situations. (.25 credit)

922-TECHNICAL DESIGN: (Semester Class) (.5 credit) Restriction: SCTC Pre-Engineering Drafting & Design students are restricted from enrolling in this course for the first semester.

***923-TECHNICAL DESIGN: (Full Year)** Prerequisite: Passed Algebra Concepts A with a 75% or higher and a signature from a current math teacher. Students will explore technical design through geometric freehand sketching, 2-D & 3-D mechanical drawing, and 3-D parametric design using the program Autodesk Inventor on the computer. A variety of tools will be used to produce numerous orthographic, isometric, dimensioned, and scaled drawings using math and problem solving skills. Generally, after the first eighteen weeks, students will use Inventor and other computer software for drawings and design applications for CNC machining and laser cutting applications. In addition, students will apply the technological design process to find design solutions. (1credit)

***924 MATERIALS PROCESSING: (1st Semester)** Prerequisite: Passed Algebra Concepts B. This hands-on laboratory-based course is an introduction to material science properties (primarily wood), hand and machine processing use, and safety practices. Standards, hands-on activities, and lessons will focus on the selection, preparation, conditioning, forming, shaping, finishing, properties, uses, and impacts of materials choices, and processing methods. Students will also have experiences with computer operated 3-D parametric design, CNC machining, and laser processing applications with their projects. (.5 credit)

***925 MANUFACTURING ENTERPRISE: (2nd Semester Class)**

Prerequisite: Passed Materials Processing

This class begins with an introduction to manufacturing technology, technical systems, and the historical evolution of manufacturing. Students will examine the organization and management of manufacturing endeavors. The class culminates in the student design and production of a product in a manufacturing enterprise situation that closely parallels the functions of a manufacturing business. Student will apply computer operated 3-D parametric design, CNC machining, and laser processing to the manufacturing process. Proper and safe practices in hand and power tool use will be reviewed. Class officers will be elected. (.5 credit)

***928-ENERGY & POWER SYSTEMS**

Prerequisite: Completed Keystone Algebra I/Algebra II with a 75% or above

Students will participate in an overview of energy and power systems as they relate to technology through the study of electricity and basic electronic systems. (This class is not residential wiring) States, forms, sources, and laws of energy will be examined as well as the control, transmission, conversion, storage, and sustainability of energy forms. Students will be involved with a variety of laboratory activities to design, build, test, and evaluate energy and control systems. Students will learn to use a variety tools such as multi-meters and soldering equipment while building electronic kits. (.5 credit)

***929 – WELDING /AG MECHANICS:** Prerequisite: Passed Manufacturing Enterprise or by teacher approval. **Restriction: SCTC Welding students are restricted from enrolling in this course.** This course provides a laboratory class for the opportunity to conduct investigations of a variety of technological systems. Students will learn the process of GMAW, SMAW, TIG, oxygen-acetylene welding, CNC plasma cutting, and basic metal fabrication as a means to construct design challenges. Students will also adjust, maintain and safely use wood and metal processing equipment and electric and oxy-acetylene welding equipment. Students will learn the theory fundamentals of small gas engines including parts, functions, troubleshooting and disassembly and reassembly. Capped at 10 students due to current equipment use limitations (.5 credit)

960-MECHATRONICS: The course will have a major focus on hands-on applications of mechatronic disciplines and a minor focus on mechatronics theory. Students will work with digital and analog control systems, CAD, computers, programming, electro-mechanical systems, robotics, and problem solving. This class is partnered with ASSA ABLOY Rockwood Manufacturing. (.5 credit) Capped at 6 students.

961-FLS Technology

Restricted to Learning Support and Functional Life Skill students: This is a Science, Technology, and Math (STEM) course where students are nominated and elected to official positions to run a manufacturing company who design, make and market products to be sold with the R&W Café coffee cart and the holiday store. Students also learn marketable work related skills, responsibilities, counting, and math through taking inventory, creating orders, making orders, stocking, and counting money from the Engineering & Technology club vending machine.

SOCIAL STUDIES

420 - WORLD HISTORY AND CULTURES: 9th Grade- This full year history course examines five of the major cultures of the world: China, Japan, India, Africa, and the Middle East. For each of the major cultures, students will examine how the physical and political geography, religion and ancient history influence the modern-day culture. The course also includes a general introduction to human civilization, the development of the culture and several global issues that affect all cultures of the world. Students will complete a midterm and final exam. (1 credit)

422 –AMERICAN HISTORY I: 10th Grade – This full year American History course will be taught in 4 segments that correspond with the 4 grading periods. The segments will cover the following time periods and include the listed sample topics: **1st 9 Weeks: The First Americans – 1775** – Arrival of the First Americans via the land bridge, Early Native American Cultures, European Explorers and Conquistadors, the 13 Colonies and British America, the French and Indian War, the Declaration of Independence and the beginning of the American Revolution. **2nd 9 Weeks: 1775-1861** – The American Revolution, The Articles of Confederation, the Constitution of the United States, the 1st 16 Presidents, Manifest Destiny/Westward Expansion, the Louisiana Purchase, the War of 1812, the Growth of Industry, and the Mexican-American War. **3rd 9 Weeks: 1840’s-1918** – Slavery, the American Civil War, Reconstruction, the continued growth of industry, the Spanish-American War, the Panama Canal, and World War I. **4th 9 Weeks: 1920-1941** – The Effects of World War I, the Roaring Twenties, the Great Depression, and the beginning of World War II. An overall timeline review/test will be conducted. Students will also take the United States Citizenship Test. All students will read the novels: “April Morning”, “The Red Badge of Courage”, “and “All Quiet on the Western Front”. Students will complete a midterm and final exam. (1 credit)

SOCIAL STUDIES (continued)

427 –AMERICAN HISTORY II: 11th Grade – This full year American History course will be taught in 4 segments that correspond with the 4 grading periods. The segments will cover the following time periods and include the listed sample topics: **1st 9 Weeks: World War II – The Cold War** – World War II in Europe, World War II in the Pacific, the use of atomic weaponry, origins of the Cold War, The Korean War, the Red Scare. **2nd 9 Weeks: The Civil Rights Era** – Review of the Slavery Timeline, The Civil Rights Movement, Presidents Kennedy and Johnson, Martin Luther King, Jr., Brown vs. Board of Education. **3rd 9 Weeks: The Vietnam Era** – Foreign Policy of Kennedy, Johnson, Nixon, the War in Vietnam, War Protest. **4th 9 Weeks: New Challenges** – Presidents Ford through Obama, the collapse of Communism, the end of the Cold War, the Space Program, the age of terrorism, Iraq, Afghanistan, new economic challenges. An overall timeline review/test will be conducted. Students will develop a list of responsibilities of a United States citizen as many of them will be reaching voting age. All students will read: “Mississippi Trial 1955” by Chris Crowe and “Code of Honor” by John Dramesi. Students will complete a midterm and final exam. (1 credit)

424 -AMERICAN GOVERNMENT: 12th Grade: The first part of this course examines and evaluates the American experiment in Democracy. The course is designed to achieve a number of objectives: 1) Gain an understanding of what it is to be an American; 2) Examine the role of the citizen and Government in society; 3) Identify the problems and successes associated with our democratic system of Government; 4) Learn to speak, write and think about political and Governmental issues; 5) Learn the skills necessary to be a responsible citizen Specifically, the course includes analysis of: Our English political traditions, The affects of the French & Indian War on the movement towards independence, development of the Declaration of Independence and the Founding Fathers, failure of the Articles of Confederation, development of the US Constitution and the three branches of Government (US Constitution). Each branch of government will be examined in detail. The course includes a detailed examination of the Bill of Rights and the seventeen remaining Amendments to the US Constitution and reviews many Supreme Court cases and their effect on our civil liberties. In addition, the course includes an introduction to economics. Students will complete a midterm and final exam. (1credit)

YEARBOOK

711 - YEARBOOK I: Prerequisite: teacher recommendation and signature required. This is an elective course offered to 10th, 11th, and 12th grade students. It does not fulfill the yearly English requirement. In this course students study the processes required in the production of the school yearbook. Topics include: photography, page layout, copy writing, proof reading, cover design, use of graphics, and the use of computers in publishing. This course meets all year on an every other day basis. (.5 credit)

712 - YEARBOOK II: Prerequisite: Yearbook I, teacher recommendation and signature required. It does not fulfill the yearly English requirement. This is a continuation of Yearbook I plus section planning, public relations, and group decision-making. This course meets all year on an every other day basis. (.5 credit)

713 - YEARBOOK III: Prerequisite: Yearbook I & II, teacher recommendation and signature required. It does not fulfill the yearly English requirement. This course combines computer technology with photojournalism on an advanced level. In addition to writing and computer skills, students must have organizational skills, be able to work independently, and be able to meet deadlines. Course work involves more independent creating/designing templates, organizing and gathering information for various layouts of different sections of the yearbook, working with the editor and advisor to submit pages to the yearbook plant, proofreading and revising proofs, organizing layouts for deadlines and

helping yearbook I students meet deadlines. (.5 credit)

ART

730 - ART I: (Semester class) (.5 credits)

731 – ART I: (Full year class) (1 credit) An elective course for students in 9th-12th grades. Student will explore multiple art media, such as drawing, painting, sculpture and design. Student will learn to create shaded drawings using perspective theories from the Renaissance period. Student will be exposed to the work of important artists and cultural and folk art.

732 - ART II: (Semester class) (.5 credits)

733 – ART II: (Full year class) (1 credit) Prerequisite: Student must have completed Art I and achieved at least a 70%. Student will expand own creativity and strive to improve technical abilities in a variety of Visual Art media. Student will work on problems in painting, drawing, design, sculpture, ceramics, and printmaking. Student will explore the work of important artists, periods and movements in Art, and cultural and folk Art.

741 – ADVANCED ART: (.5 credit)

742 – ADVANCED ART: (1 credit)

Prerequisite: Student must have completed Art II and achieved a 85% or higher. This is a course designed for a student who is interested in a serious and in-depth study in Visual Art. Student will be working in a very creative and complex level in a wide range of Art media. Student will be asked to call upon own problem solving skills and creative thought to complete projects. A sketchbook of drawings is kept through the entirety of course. Advanced Art student will explore the work of important artists and cultural and folk art. Yearlong course. (1 credit)

743 - ADVANCED ART SEMINAR (.5 credit) Permission of the instructor is required.

744 - ADVANCED ART SEMINAR (1 credit) Permission of the instructor is required.

This class is designed for the serious art student who has completed Art I, II, and Advanced Art. Individual topics will be explored which are an extension of the student's individual artistic interests. An art portfolio representing the students work will be created.

735 - 3D SCULPTURE – An introductory course for 9th to 12th grade students. This class will include basic building techniques and materials with a focus on the production of 3-dimensional sculptures. In addition to sculpture building methods, students will also develop planning skills through the creation and following of prototypes. The course will include non-traditional materials, ceramics, wire, wood, and other building supplies. Students should anticipate a studio-based course with an inclusion of basic engineering, problem-solving, experimentation, production of artwork with a focus on craftsmanship, and critiques. Students will also observe historical and contemporary trends in 3D design. This course would replace ceramics as it would offer exposure to a wide range of materials, engineering practices, and building methods outside of traditional pottery techniques and applications.(1 credit)

736 - GRAPHIC ARTS: A course for students in 10th-12th grades.

This is a computer based class in which the student will learn basic skills in the use of Adobe Photoshop. Student will focus on both the creative and commercial uses of the programs. Student will interface and manipulate digital images into programs, along with scanned images to create computer generated artwork. (1 credit)

ART (continued)

737- GRAPHIC ARTS II: Prerequisite: 85% in Graphic Arts I. A continued study of Adobe Photoshop program is explored in this course. Computer generated graphic and fine art will be produced. Students will manipulate digital images and create projects utilizing the Photoshop program. (1 credit)

VOCAL/INSTRUMENTAL PERFORMANCE GROUPS

The following performance groups will present two evening concerts each school year for parents and community and will have the opportunity to perform a wide variety of music. Attendance at evening concerts is mandatory and will serve as a major portion of a student's individual class grade. By choosing to participate in these classes, students demonstrate an interest in achieving musical excellence.

610 - SENIOR HIGH BAND: A yearlong elective class that meets every other day all year long. An audition is required for entry if you have not previously been part of the band. This class is open to all students in grades 9-12. Band members may also elect to participate in the Marching Band. Band members also have the opportunity to audition for, and if selected, participate in All-County, District, Regional and State Bands. (.5 credits)

611 - SENIOR HIGH BAND: A yearlong elective class that meets every day all year long. An audition is required for entry if you have not previously been part of the band. This class is open to all students in grades 9-12. Band members may also elect to participate in the Marching Band. Band members also have the opportunity to audition for, and if selected, participate in All-County, District, Regional and State Bands. (1 credits)

612 – JAZZ BAND: This band will require an audition and teacher recommendation. Jazz band is open to any student in grades 9-12 who play the following instruments: Alto Sax, Tenor Sax, Baritone Sax, Trumpet, Trombone, Baritone, Tuba, Piano/Synthesizer, Guitar, Bass Guitar, and Drum Set/Percussion. (.5 credit)

621 - SENIOR CONCERT CHOIR: A yearlong elective class that meets every other day all year long. An audition is required for entry if you have not previously been part of the chorus. This class is open to all students in grades 9-12. Choir members also have the opportunity to audition for, and if selected, participate in All-County, District, Regional and State Choruses. (.5 credit)

622 - SENIOR CONCERT CHOIR: A yearlong elective class that meets every day all year long. An audition is required for entry if you have not previously been part of the chorus. This class is open to all students in grades 9-12. Choir members also have the opportunity to audition for, and if selected, participate in All-County, District, Regional and State Choruses. (1 credits)

FAMILY AND CONSUMER SCIENCE

935 - FAMILY & CONSUMER SCIENCE ELECTIVE: (Semester Class) Grade 9-12. This class meets all year every other day or every day for a semester. Students will focus on nutrition and learn to stay fit, eat healthy, plan meals and prepare a wide variety of specialties. In addition, students will develop basic smart consumer skills. This curriculum develops problem solving skills, communication, time management and an activity-oriented classroom that enables each student to learn from their own experiences. (.5 credit)

936 - FAMILY & CONSUMER SCIENCE ELECTIVE: (Full Year) Grade 9 – 12 elective course. Students may elect this course for a semester or full year. If you would like to learn how to prepare a variety of foods, take care of your clothes, become a better shopper and teach preschool children then this is the course for you. This class is geared to hands-on learning activities, decision making, teamwork, and practical skills used in everyday life. Subject areas include: 1st semester- foods & nutrition, money management; 2nd semester- food preparation, child development/ preschool program, and clothing & design. (1 credit)

937 - CREATIVE COOKING & CATERING: (Grades 10 – 12) Catering: Students will learn simple techniques for entertaining guests for casual or formal theme parties. Students will organize a catering plan for a special theme and invite selected 8th period classes to participate, putting their actual catering plans into action. Creative Cooking: This class is a great opportunity to use your own creativity to prepare a variety of entrees. Units include Creative Seasonings, Outdoor Cooking, & Baking Basics. (.5 credit)

930 - FACS SURVIVAL SKILLS: (Grade 11) This is a required course. Are you ready for the real world? Focus on key areas of Family & Consumer Science for a successful future. Prepare quick and easy nutritious meals, focus on family and work responsibilities, improve communication and leadership skills, balance your budget and be a better consumer, plan creative activities that nurture children in all areas of child development. (.5 credit)

HEALTH & PHYSICAL EDUCATION

822-9th Grade Health: (.5 credits)

These classes meet every other day opposite of 9th grade Physical Education classes for the duration of the school year. Students will study mental health, strategies to manage stress, tobacco, alcohol, drugs, healthy relationships, family living, HIV/AIDS and the practice of CPR. Botvin Life Skills, a grant funded curriculum will be used to introduce and strengthen the understanding of life skills. These life skills will include, increasing self-esteem, social skills, communication skills, standing up for your rights, managing anxiety, effective decision making skills, and resisting peer pressure. The life skill training is designed to promote a happy, healthy, and productive life.

823-9th Grade 9 Physical Education: (.5 credits)

829- Senior High Physical Education: (.5 credits)

These classes meet every other day for the duration of the school year. In these classes, students will develop physically, emotionally, and socially through a variety of activities that include the following: soccer, basketball, tumbling, football, learning and creating dance, racquet sports, weightlifting, bowling, track and field, softball, hockey and speedball.

HEALTH & PHYSICAL EDUCATION (cont.)

824-Senior High Fitness Exploration: (Semester Class) (.25 credits)

826-Senior High Fitness Exploration: (Full Year) (.5 credits)

These classes are offered every other day for students in grades 9-12. Class size is limited and is available to both senior high boys and girls. It is a class that is designed to teach students a variety of ways to get fit and stay healthy by introducing new and fun ways to exercise. Techniques that will be used in this class include aerobics, kickboxing, aerobic dance, pilates, yoga and weight lifting. While participating in class, students will increase muscle strength and endurance as well as cardiovascular endurance. This class will be set up as a participation-based grading system. *Students must maintain a 75% or better in the class for the 1st semester in order to continue in the 2nd semester.*

825-Senior High Weight Training: (Semester Class) (.25 credits)

827- Senior High Weight Training: (Full Year) (.5 credits)

These classes are offered every other day for students in grades 9-12. Class size is limited and is available to both senior high boys and girls. It is designed to give students who are interested in weight lifting and gives athletes an opportunity to learn how to lift weights properly and safely to increase muscle strength and endurance. This class is set up as a participation-based grading system. *Students must maintain a 75% or better in the class for the 1st semester in order to continue in the 2nd semester.*

VOLUNTEER PROGRAMS

These courses will be offered according to the teachers' need and schedule. Therefore, they can not be scheduled in advance. Each teacher will have a sign up sheet. If you are interested in assisting with one of the volunteer programs listed below, please see that teacher to sign up for possible registration at the beginning of the school year. No credit is given for the volunteer programs.

173 – LIBRARY AIDE: Library aides serve the library patron and ensure the daily function of the library in many unique ways. Aides must master searching techniques of the available databases, and perform a variety of tasks. Students may serve as library aides for any particular grading period(s).

831 – GYM AIDE: Students volunteer to assist the physical education teachers.

SPECIAL EDUCATION PROGRAM

BASIC COURSES: Basic courses are aligned with the general curriculum at each grade level. Students eligible for the special education curriculum are determined by the IEP team and their schedules are created by the special education department according to their educational needs.

Somerset County Technology Programs and Services

In order to be eligible to attend the Somerset County Technology Center, students must have made prior application. Typically, this is done immediately following the 9th grade tour of the Technology Center to begin the 10th grade year. Students must successfully complete three semesters in order to earn certification in the respective area. Student must also pass all grade level course requirements at Rockwood for entrance eligibility. Additionally, any failed courses must be made up prior to the beginning of the next school year in order to continue at the Technology Center.

Support Services

Support services in related academic areas are offered to all students, including those with special needs, on an as-needed basis or as recommended through an Individual Education Plan. Needs of special students vary, and the goals of the program are to provide the necessary support to teachers, parents, and students so that they can successfully adapt to career and technology class and shop settings.

Cooperative Education/Placement

This program places qualified students in jobs in commerce, industry and the professions to expand their skill training. The student's workplace becomes an extended classroom or laboratory. Learning by doing is the key to help students relate school work to actual real-world employment.

Tech Prep Associate Degree Programs

Tech Prep is a career pathway that combines at least two years of skill training at SCTC with two years of college resulting in an Associate's Degree. Students train for jobs in high skill/high wage employment in fields such as computer networking, drafting, electronics, forestry, construction trades, machining/welding trades, and the automotive repair field. SCTC has agreements with local colleges that often give Tech Prep students advanced standing and reduced cost when they pursue additional education. Tech Prep provides students with career focus and the academic and technical skills for success.

Accreditation

Somerset County Technology Center is accredited by the Middle States Association – Commission on Secondary Schools, 3624 Market Street, Philadelphia, PA 19104-2680 until November 2017. The Middle States Commission is an institutional accrediting agency recognized by the U.S. Secretary of Education and the Council for Higher Education Accreditation.



Somerset County Technology Programs

871 Collision Repair & Refinishing

This course offers training in collision repair, frame and unibody diagnosis and repair, custom painting with airbrush graphics, and antique and classic car restoration. Using state-of-the-industry equipment, students learn damage diagnosis and estimating, metal straightening techniques, panel replacement, welding, paint mixing and refinishing, and auto detailing. Upon graduation, students are ready for an entry-level position in the auto body repair field or an advanced apprenticeship.

872 Automotive Technology

Through theory and actual laboratory experience, students receive the training needed to troubleshoot, analyze, and repair malfunctioning gasoline engines. This course also prepares students for the PA State Safety Inspection Mechanics Test that is given at the end of the senior year. Areas of training include basic vehicle service, engine performance, engine repair, suspension and steering, brakes, electrical/electronic systems, heating, automatic transmissions, and manual drive train and axles. Instruction is based on the NATEF/ASE task list.

875 Carpentry (Millwork)

Students receive competency-based skill instruction in all phases of residential construction. This includes blueprint reading, framing, interior and exterior finish. These skills are gained through the construction of a modular home. In the millwork phase of the program, students have the opportunity to work with state of the art wood working equipment to develop skills in custom cabinet design, construction and installation. Specialty occupations include, contractor, framing carpenter, finish carpenter, roofer, drywall install and finish, siding mechanic, cabinetmaking, CNC operator.

876 Teacher Prep/ Early Childhood Education (Child Care Occupations)

This program covers human growth and development, health and safety, DPW regulations, nutrition, guidance and discipline, career and professional development, and activity planning. Students learn through both classroom experience and practical application in the preschool facility. Career opportunities include child care aide, assistant group supervisor, teacher's aide, nanny, day care operator. Industry certifications include First Aid, CPR, Child Development Associate and Assistant Group Supervisor.

877 Computer Networking Technology

Students in Computer Networking are preparing for employment in a variety of careers including but not limited to Network Administrator, Network Technician, and Computer Support Technician. Students will begin by learning the basics of computer hardware, operating systems, and peripherals. They will learn physical networking to include routers, switches, and cabling. Also, students will have the opportunity to obtain Comptia A+, Network+ and Cisco certifications.

878 Cosmetology

Within this three-year course, students receive training in the various beauty profession services, state law requirements, and the commercial aspects of cosmetology. Learning experiences include administering facials, manicures and artificial nail services, cutting, styling, bleaching, tinting and perming hair. In preparation for state licensing, students are also taught hygiene and sanitation, anatomy and physiology, and state laws concerning cosmetology. Emphasis is also placed on customer service and business procedures relevant to the profession.

Somerset County Technology Programs

879 Culinary Arts

Culinary Arts students learn the main functions of ordering, preparing, cooking and serving food in restaurants, cafeterias, hotels and institutions. Instruction includes practical experience in the school restaurant and bakery where they study the following occupations: chef, cook, baker, salad maker, line cook, prep cook, cake decorator, serving staff and cashier. Special emphasis is placed on safety, sanitation, restaurant management, menu planning, daily operations and nutrition. Upon graduation, students are prepared for entry level positions in various types of establishments or for higher education admissions in colleges or culinary schools.

880 Pre-Engineering Drafting and Design Technology

Drafting is the primary means of communicating technical ideas through the use of computers and software. As our nation continues to grow technologically, the demand for drafting technicians for both regular industry as well as the entertainment industry will continue to increase. Students initially learn the fundamentals of drawing, then progress into areas of specialization such as technical drafting, architectural drafting, civil engineering and surveying as well as animation for the entertainment industry. Students are also trained to operate CADD (Computer-aided Drafting and Design) systems. CADD is an integral part of the program as is 3D modeling and animation software and enables graduates to be more competitive in job placement opportunities. Upon completion of this program, students are prepared for entry-level drafting and design positions and/or for post-secondary education that can lead to a high skill, high wage career.

881 Electrical Occupations

This course involves practices that include the three major branches of the electrician's trade: residential, commercial, and industrial. The student who has a basic background in math and science will begin with basic electricity and progress to learning a new language that starts with the simple atom and progresses into voltage, current, resistance, and wattage.

883 Forestry Technology

The demand for wood and wood products has created the need for skilled lumber workers. The forestry program is designed to train students in woodland care and management which includes logging, cutting, planting, and marketing of wood and wood products. The course also covers skills involved in sawing, drying, and grading lumber. As part of their course work, students will use a GPS/GIS system and handheld computers. Increased national emphasis on ecology and conservation of natural resources has created the need for forest management personnel. Career opportunities also exist in related environmental sciences.

884 Health Occupations

Students are provided course work to prepare them for employment as a nurse aide or as a medical office assistant. In addition, they are introduced to a wide variety of highly employable paraprofessional careers. Students receive instruction and participate in activities designed to help them develop practical medical and safety skills. Clinical and/or cooperative education experiences are available with hospitals, nursing homes, and other appropriate health care agencies. Graduates go directly into several entry-level positions in the medical and nurse assisting occupations, or they can continue their education at a college or medical facility.

Somerset County Technology Programs

887 Machining Technology

Machine Technology provides students with an excellent background in mechanical operations for today's modern machine tool industry. The course is organized to offer competency-based instruction in the following areas: operation of a variety of machines; use of measuring tools, gauges, and instruments; computerized numerical control programming and operation; blueprint reading; and application of mathematics. Employment for machinists has traditionally been excellent and is forecast to remain excellent in the future as demand increases for highly skilled personnel.

888 Masonry

Employment and excellent financial rewards are readily available to successful masonry students. This three-year course offers instruction in brick and block-laying fundamentals such as mortar mixing, use of a masonry saw, scaffold building, blueprint reading and estimating. Brick paving, fireplace construction, stone masonry and the pouring and finishing of concrete are also covered.

889 Welding Technology

The welding course is designed to allow students to reach their highest level of achievement in oxy-fuel welding, brazing, shielded metal arc welding, gas tungsten arc welding, gas metal arc welding, and cutting using the oxy-fuel and plasma arc processes. Basic blueprint reading, safety precautions, and proper use of power equipment are also taught. Students have the opportunity to participate in activities sponsored by the American Welding Society and Skills USA.

886 Dental Assisting

Dental Assisting is an instructional program that prepares individuals to function effectively as an integral member of the dental health team. The practitioner will perform chair-side assisting, related office duties and selected dental office laboratory procedures and dental radiography under the supervision of a licensed dentist. The planned courses should include instruction in universal precautions, OSHA regulations, communications skills, computer literacy, psychology, anatomy and physiology, microbiology and nutrition. Dental Science instruction shall include content in dental materials, dental radiology, oral anatomy, histology, oral embryology, oral pathology and therapeutics. Clinical science should emphasize the principles and application of office management, chair-side assisting, dental emergencies and legal/ethical aspects of dental practice. Clinical practice is an integral part of the program designed to perfect students' competence in performing dental assisting functions.

870 Service Occupations Program

The Service occupations Education program will provide students with the opportunity to explore careers in the personal services cluster and gain the employability skills needed for job placement. This program provides instruction in the fields of custodial services, institutional food services, commercial laundry, lawn care, automotive detailing, and distribution of goods. Students will learn hands-on skills in a lab setting and participate in related activities within the school setting. The program will stress workplace safety, the development of good work habits and the ability to work cooperatively.

885 Heating, Ventilation, Air Conditioning and Refrigeration (HVAC/R)

The heating, ventilation, air conditioning and refrigeration program prepares students to apply technical knowledge and skills to install, repair and maintain commercial and domestic heating, air conditioning and refrigeration systems. Students will apply basic theory involved in conditioning air through cooling and heating, filtering and controlling humidity; read a blueprint and use technical reference manuals; diagnose malfunctions; overhaul repair and adjust pumps, compressors, valves, springs and connections; repair electric/electronic and pneumatic control systems.

Activities and Clubs

Students must choose activities/clubs to fill the 9th period every other day club.

1040 - Learning and Research Center – Seniors Only (Mrs. Hay)

The Library will be open every day all year to provide a learning environment for students who need assistance in classes and remediation. Computers will also be available. Please understand that the Learning Center is not a study hall! It is not intended for the same students to be admitted on a continual basis unless there is a great need for tutoring assistance. Various teachers from the different departments will be available for assistance. Teachers, parents and students may request for students to get extra help and tutoring at any time. See Mrs. Hay throughout the year for sign up arrangements. **Only students wishing to participate in Senior Privileges should sign up for the Learning Center. If eligibility requirements are not met, students will be required to remain in the Learning Center for tutoring.**

1001- Senior High Basketball Club-(Mr. Wagner) (1ST SEMESTER ONLY)

This club is designed to enhance your knowledge and skill level on the game. Club periods will be used to work on both individual and team skills as well as film study of varsity games.

1003 – Science Fiction Theater Club – (Mr. Woolslayer) Semester 1 or 2 or yearlong

This club is open for grades 7-12. Science Fiction Theater Club is for students who love Sci-Fi movies and classic Sci-Fi series such as Star Trek, Space 1999, Battle Star Galactica, UFO, Star Wars, Planet of the Apes and other classics. Come join the fun!

1004 - Creative Writing Club- Junior and Senior High (Mrs. Shultz) Semester 1, 2 or yearlong

This club will provide an outlet for written creative expression. Students will create an original literary magazine. Members will submit poetry, short stories, and prose to be included in the publication. Students will have the opportunity to submit work for contests and scholarships. In addition to publishing the literary magazine, students will judge the 3rd Annual Power of Words Writing Competition.

1005 – Yearbook Club- Senior High (Ms. Picklo) Semester 1, 2 or yearlong

This club will run every other day. Members will learn to shoot digital images and use computer programs to manipulate the images. Club members will shoot various images and document school activities and student body and staff. This club will be limited to students who are concurrently enrolled in the Yearbook course.

1028 - FFA (Ms. Weimer): Semester 1, Semester 2, or yearlong

Senior FFA will be for the 7-12 grade students enrolled in an agriculture course or an SAE elective independent study course (during 9th period). Students will develop their potential for premier leadership, personal growth and career success through agricultural education. Students will utilize their knowledge gained through instruction and the SAE process to compete at the county, regional, state, and national levels. Students will pay an annual dues amount, participate in chapter activities,

and undertake the degree requirements for the FFA degree, as outlined by the National FFA (<https://www.ffa.org/programs/degrees/Pages/default.aspx>).

1029-Enrichment Club (Mrs. Pletcher) 1st or 2nd semester or Yearlong for grades 7-12
During 9th period club days, this enrichment club will focus on extending concepts on test taking skills and concepts such as PSAT8/9, PSAT 10/NMSQT, SAT, SAT-subject based, ACT and CLEP tests. This club would be beneficial for all college-bound students (grades 7-12). The problem-solving strategies, labs and activities would be presented at a higher level. Students will set up online accounts for practice tests such as through collegeboard.org, kaptest.com, and khanacademy.org. Although math concepts will be stressed, time will be given to explore all parts of these tests.

1016- Physical Education Club- Senior High (Mr. Enos) Semester 2

PE club members will participate in a variety of sports that will improve one's cardiovascular endurance, muscular endurance, hand-eye/foot-eye coordination, and agility. This club is designed to keep students moving and get 30 minutes of your daily recommended physical activity.

1020 - Speech Team/Forensics - Senior High (Mrs. Langley-Burkardt) Semester 2 or yearlong. Students must see Mrs. Langley-Burkardt for approval. Students interested in public speaking or dramatic interpretations are welcome to join the senior high speech team. Open to students in grades 9, 10, 11, and 12. Competitions are held from September through April. Categories of competition are: poetry, prose, informative speaking, persuasive speaking, dramatic performance, duo dramatic performance, and extemporaneous speaking. Students will be given the opportunity to participate in National Forensic League competitions and become members of the National Forensic League. This allows students to not only participate in events locally within the IU8, but also to compete within a larger group of schools with the NFL district. Students earn NFL points and are awarded degrees according to NFL guidelines. Students also may have the opportunity to compete at the state level (typically held at Bloomsburg University) or to compete nationally at the National Catholic Forensic League competition held annually over the Memorial Day weekend. Students must be willing to commit themselves to frequent practice and also to active participation at forensic events. **If signing up for yearlong, students in grades 10-12 must be willing to judge at Jr. High debates.**

1023 - Sportsman's Club – Senior High (Mr. King) Semester 1

This club will meet every other day all year. If you are looking for more information about hunting, fishing, or basic survival techniques or have information that you are willing to share, then this is the club for you. We will be looking at each of these topics throughout the year depending upon the season. You won't be disappointed!

1025 - Student Congress (TBA)

Students interested in legal issues and debates are welcome to join student congress. Open to students in grades 9, 10, 11, and 12. Competitions are held from September through April. Students will be given the opportunity to participate in National Forensic League competitions and become members of the National Forensic League. This allows students to not only participate in events locally within the IU8, but also to compete within a larger group of schools within the NFL district. Students earn NFL points and are awarded degrees according to NFL guidelines. Students also may have the opportunity to participate at the Westmoreland County Courthouse for NFL final congress and also at the district level for a final congress. Students will learn and implement parliamentary procedure within a student congress environment. Students must be willing to commit themselves to researching material to strengthen their arguments and be willing to debate against other student representatives.

1032 Technology & Engineering Club (Mr. Kush)– Semester 1, 2, or yearlong

The club's mission is to pursue student advancement and exposure in the fields of technology, engineering, design, and manufacturing through a variety of opportunities. Students will work on a variety of school and self directed personal projects using the available tools and equipment. A limited amount of materials may be provided for student use. Students will use the engineering design process of inquiry, exploration, design, build, and test. Opportunities will be provided for applying CNC machining, laser processing, and 3D rapid prototyping to materials. Students may participate in fieldtrips, and other activities. This club is **RESTRICTED** to students who are enrolled in Technical Design, Materials Processing, Manufacturing Enterprise, Energy & Power Systems, and Engineering Technology & Design.

1034-FBLA (Mrs. Walker) Yearlong- Future Business Leaders of America-Phi Beta Lambda is a nonprofit 501(c)(3) educational association of student members preparing for careers in business or who are just simply interested in learning more about the free enterprise system. FBLA helps students develop leadership abilities, and prepare for entry into, and advancement within, a business or business-related occupation. Members learn how to engage in business enterprise, how to direct the affairs of a group, and how to compete honorably in competitive events. These activities help prepare students to be better employees and better citizens.

Purpose : FBLA-PBL provides innovative leadership development programs to bring business and education together in a positive working relationship. Participation in FBLA-PBL can have a direct impact on the direction and success of a young person's career. Millions of students have learned through active membership in FBLA-PBL about the world of business and what is expected of them in the workplace. Organizational goals include: develop competent, aggressive business leadership, strengthen the confidence of students in themselves and their work, create more interest in and understanding of American business enterprise, encourage members to develop individual projects that contribute to the home, business, and community, develop character, prepare for useful citizenship, and foster patriotism, encourage and practice efficient money management, encourage scholarship and promote school loyalty, assist students in the establishment of occupational goals, facilitate the transition from school to work.

1035- Current Event Club- All Year, Semester 1 and 2 – (Mrs. Boczar) Students will meet once a week to discuss the developing current events ranging from international, national, and local issues. Also included in the discussions will be relevant news in pop culture and sports.

1010-Spanish Club- (Mrs. Minor) yearlong: Spanish club is open to students in 9th-12th grade who are currently enrolled or were previously enrolled in Spanish I-IV. Students will participate in a variety of activities throughout the year, such as watching and discussing cultural films, and reading and sharing current topics and events from Spanish-speaking countries. Members will also help plan and carry out classroom bulletin boards, cultural events for holidays, fieldtrips, fundraisers, etc.

1000-French Club- (TBA) yearlong: French club is open to students in 9th-12th grade who are currently enrolled or were previously enrolled in French I-IV. Students will participate in a variety of activities throughout the year, such as watching and discussing cultural films, and reading and sharing current topics and events from Francophone countries. Members will also help plan and carry out classroom bulletin boards, cultural events for holidays and fieldtrips, fundraisers, etc.

1002-Chemistry Club-(Mrs. Thompson) 10th – 12th (must have taken or currently taking Chemistry I) Sem. 1, Sem. 2, or All year: This club is designed for students who are currently enrolled or have previously been enrolled in Chemistry I. Students will perform some fun experiments and demonstrations involving chemical reactions of toys, everyday household items, and basic chemicals. The chemical demonstrations will then be shared with the elementary and middle school students.

1007-Wellness Club (Ms. Glessner) Semester 1, Semester 2 or year-long-

Wellness club members will promote wellness to Rockwood's students, faculty, and entire community through activities, demonstrations, and information. The overall goal is to provide the skills and knowledge so that members make proper decisions regarding their overall health. We welcome those who are interested in maintaining one's physical, mental, and social needs in life. Students will have the opportunity to learn hands on activities such as yoga, mindfulness, trail hiking, creating healthy recipes, communication building, techniques for managing stress and much more. Each class, students will work on creating a wellness theme for the month and a weekly wellness message to share with the students and staff at Rockwood.

1014- Lifting Club 7-12 (Mr. Romesburg) Semester 1, Semester 2 or year long. This club is designed to enhance the students' knowledge of the weight room equipment, etiquette, safety, and training. Club periods will be used to focus on improving and developing proper form and technique, as well as exploring a variety of exercises that will improve overall strength.

1019-A/V Club- (Mr. Formica) 9th-12th year long. In A/V Club you will learn how to operate the lighting, sound and video systems in the auditorium. Many of the skills learned will be applicable to many activities/events outside of school like church A/V systems, band/concert audio, home movie/audio setups, and even college level classes, clubs and activities. Along with this you are able to attend all concerts/assemblies/musicals and help run the equipment with Mr. Formica. (Attending concerts/assembly/musicals is optional)

Organizations

The following are the various organizations that students can choose to participate in throughout the school year during the 9th period. Students wishing to join any of the organizations listed will need to meet with the supervising teacher for sign up. Students will also need to choose club activities for 9th period. The organization meetings will be announced on an as needed basis; therefore, participants will need to listen to the announcements for when and where the meeting will be. If you choose Junior/Senior Privileges but still want to be part of an organization, you will be required to stay for the meetings and participate in any required activities that correspond to the organization.

Band and Chorus practices will be conducted via announcements as well during concert seasons.

French Honor Society- Senior High (TBA)

French Honor Society is an organization that you earn the privilege to be a part of. Any student wishing to be involved must be enrolled in French II-French IV, maintain an "A" average in French, have an overall GPA of 3.0 in all subjects, show a desire to learn French, and write a short essay expressing their desire to be a part of the group. Any student wishing to join French Honor Society should see Ms Carrol for more details.

Spanish Honor Society (Mrs. Minor)

Spanish Honor Society is an organization that you earn the privilege to be a part of. Any student wishing to be involved must be enrolled in Spanish II-Spanish IV, maintain an "A" average in Spanish, have an overall GPA of 3.0 in all subjects, show a desire to learn Spanish, and write a short essay expressing their desire to be a part of the group. Any student wishing to join Spanish Honor Society should see Mrs. Minor for more details.

National Honor Society (NHS) – Senior High (Mrs. Tressler)

Any student wishing to be a part of National Honor Society must earn the right to join. To become a member a student must be in 10th-12th grade, have a 3.5 cumulative GPA starting in 9th grade and had no more than one Level 1 disciplinary referral and no other higher levels for that year. If you are interested in joining, please see Mrs. Minor for more details and an application.

Student Council (Mrs. Langley-Burkhardt & Shanda Pletcher) Student Council is a representative organization consisting of students in ninth through twelfth grades. Student Council members take a leading role in helping to support their school and its students through yearly activities, incentive programs, and community service projects. Such activities have included: RAHS Annual Homecoming Parade/Bonfire/Powderpuff game, American Red Cross blood drives, etc. Stu. Co. members work alongside other student and community organizations to support a positive atmosphere within the school. Stu. Co. members are required to fulfill community service hours (typically within the school day), participate in organization fundraisers, attend meetings, and volunteer to complete projects and activities.

SADD/TATU- (Mrs. Letizia)

SADD- Students in this club help plan Red Ribbon Week during the month of October. A variety of activities are planned including a County Wide banner contest, the distribution of Red Ribbons throughout the school, and Red Ribbons placed on cars and lockers. This group is also responsible for planning Prom Promise during the week of the Prom. Some activities that have been done in the past include the Mock Car Crash, Safety Bug, and a video created by the SADD club.

TATU- Students in this club are committed to stopping the use of tobacco. We are currently working on Clear Air in the State of Pennsylvania, promoting clean air in homes, schools, restaurants, and in the community. Students in TATU have attended conferences in Harrisburg and met with State Representatives to explain their thoughts about Clean Air. The students also work with elementary students to explain the dangers of tobacco. They put on a puppet show to help younger students remain tobacco free.