

South Williamsport Senior High School

700 Percy Street
South Williamsport, PA 17702
570-326-2684

January 2017

Dear Parent/Guardian(s):

The 2017-2018 Curriculum Booklet has been assembled to aid you in helping your child to make wise scheduling decisions concerning his or her years at South Williamsport Jr/Sr High School.

The purpose of our school is to make a meaningful and useful education available to your son/daughter. However, we depend heavily on you to motivate your child to realize the importance of an education and to take it seriously. We also rely on you to send us students who know right from wrong and who have respect for the rights and property of others.

In return, you need to know we will do our best and we will be available to you anytime you feel the need. If school and family cooperate and communicate, then your child, our community, and our nation will be the benefactors.

It is the policy of the South Williamsport Area School District not to discriminate on the basis of race, color, national origin, sex, or handicap in its educational and vocational programs or employment as required by Title IX, Title VI, and Section 504.

Inquiries regarding compliance with this policy may be directed to the Compliance Officer, Dr. Mark Stamm, Superintendent of Schools, 515 West Central Avenue, South Williamsport, PA 17702 or phone 570-327-1581.

Sincerely,

Jesse Smith
Principal

Jesse Smith
Principal
570-326-2684

Emily Wagner
School Counselor
570-320-4445

Verna Correll
School Counselor
570-320-4445

SCHOOL COUNSELING INFORMATION

Counseling is provided for every student throughout junior and senior high school. Much emphasis is placed on personal, academic, and college/career guidance for the purpose of helping each person to become satisfactorily adjusted to school and to assist him or her in understanding post-secondary options.

STUDY HOURS

It is of great importance that pupils have regular study hours at home, free from interruption. Without these regular hours, declining performance is almost certain. Parents should pay close attention to students entering their first year of high school since most failures are due to inadequate home study habits.

If a student is devoting less than one hour or more than three hours per day to prepare for lessons at home, the principal or counselor should be consulted. In the one case, work is probably being neglected; in the other, too much is attempted or the method of study is faulty.

FAILURE OF REQUIRED COURSES

Students who fail required courses may eliminate deficiencies during the summer in one of two ways:

Students who enroll in any available summer school must BE APPROVED BY AN ADMINISTRATOR, must provide their own transportation and must pay their own tuition. Summer school information is usually available by June 1 IN THE COUNSELING OFFICE.

Private tutoring is a second option and must BE APPROVED BY AN ADMINISTRATOR. Tutoring must consist of a minimum of thirty (30) hours with an approved instructor certified in the area of the deficiency. Class size is limited to two (2) students.

The school strongly recommends that an English failure be made up immediately so as not to delay graduation.

COUNSELORS

Your child's counselor can be contacted at 570-320-4445. Mrs. Wagner is the counselor for students in grades 7, 8, and 9; Mrs. Correll is the counselor for students in grades 10, 11, and 12.

PROGRAM ELIGIBILITY REQUIREMENTS

All academic, career and technical programs, and elective courses at South Williamsport Jr/Sr High School are available to all students.

IEPs (Individualized Education Programs) for students enrolled in these programs will reflect the goals and objectives of the respective program. In addition, when special needs of a student with a qualifying disability are determined, instructional modification and other special services, if necessary, will be provided.

Enrollment in Career and Technical Education (CTE) classes is limited to the district's eligibility criteria for entrance into the program. Waivers of the eligibility requirements can be granted to students with qualifying disabilities at the discretion of the student's IEP team in coordination with a representative from the CTE Program. In the event there are insufficient openings available to the number of qualified applicants, students with disabilities will be subject to the same non-discriminatory selections procedure as all other applicants.

GRADUATION REQUIREMENTS

In order to graduate, students must obtain a minimum of 24 credits in grades 9-12, including the required courses of four (4) credits in English; four (4) credits in mathematics; three (3) credits in science; four (4) credits in social studies; and one (1) credit of physical education/health. The remaining credits needed are through elective courses. Credits are earned when subjects are passed (70 or above). A subject that meets daily for one period for the entire school year is a one-credit subject. Students must also score on the proficient level or above on the Literature, Biology, and Algebra I Keystone Exams (or a local assessment).

Any student who attends a CTE program for two years is required to obtain a minimum of 23 credits. If a student attends the program for three years, 22 credits must be obtained. CTE students are still required to meet the rest of the graduation requirements listed above.

COMMENTS

- Students who wish to attend college should have an overall average of 85% or higher. Most colleges require college entrance examinations such as Scholastic Aptitude Test (SAT) or the American College Test (ACT).
- Once courses have been selected, no changes will be allowed after the five-day drop/add period except for urgent reasons and then only BY PERMISSION OF THE PRINCIPAL AND UPON WRITTEN REQUEST BY THE PARENT. Schedule changes will be considered in August and at the end of the first semester for second semester courses on a space available basis.
- Schedules will be mailed early August.
- Courses are offered only if the number of students selecting such a course warrants having a class, if teachers are available, and if space permits.
- Physical Education courses are graded on a pass/fail basis.
- All students in grades 9, 10, and 11 must schedule a science, math, English, and social studies course.

CURRICULUM BOOKLET 2017-2018

SOUTH WILLIAMSPORT JR/SR HIGH SCHOOL
SOUTH WILLIAMSPORT, PA

In selecting a curriculum, much thought should be given to the abilities of the student as demonstrated in his/her previous years of school, as well as test scores, effort normally put forth, desire to continue in a given curriculum and college/career plans. Remember, the best single indicator of a student's future success in school is the past school record.

Families are urged to use this curriculum guide to make a tentative list of subjects for each year your child is in school in preparation for further education or entering the workforce upon graduation.

The **ACADEMIC** or **COLLEGE PREPARATORY** curriculum is intended for pupils who are preparing for college and other institutions of higher learning. This course includes a generous amount of language, mathematics, and science. It is recommended that college-bound students take four (4) years of English, four (4) years of social studies, four (4) years of academic science, four (4) years of academic mathematics, and at least two (2) years of a foreign language. Composition class and Speech Communications are also highly recommended for college-bound students. When preparing for entrance to a specific college, **CONSULT THEIR WEBSITE** before making course selections. It is the student's responsibility to know those requirements. Check the college's website each year until graduation as changes may occur periodically. The Counseling Office has a selection of college materials and directories for your use.

The **CAREER AND TECHNICAL EDUCATION (CTE)** curriculum is offered to students in grades 10-12. In order for a student to attend the career and technical program, the student must have successfully completed a minimum of 6 credits. CTE students spend four (4) or five (5) periods each day here at South, taking required academic subjects and two (2) periods each day in the program of their choice. The CTE courses are located at Williamsport Area High School (transportation is provided).

DESCRIPTION OF COURSES BY DEPARTMENT

ART DEPARTMENT

2 DIMENSIONAL DESIGN I (Semester) Drawing from observation to develop strong drawing skills. Focus will be on identifying and recording value, proportion and spatial relationships.

2 DIMENSIONAL DESIGN II (Semester) This course is a continuation of 2D Design skills with the aim that you will become more comfortable recording and expressing information visually. The level II offers more freedom of image choice and opportunity for self expression and critical thinking. A variety of materials will be utilized and color theory will be introduced. The level II course runs simultaneously with the level I course.

2 DIMENSIONAL DESIGN III (Semester) 2D Design III is a continuation of 2D Design II. Advanced technique and complex imagery will reflect more philosophical thought. Research of artists and their styles will be an important element of the course. The level III course runs simultaneously with the level I & II courses.

INDEPENDENT STUDY IN 2 DIMENSIONAL DESIGN (Semester) A student who has completed and excelled in 2D Design I, II & III may request permission to take the 2D Design Independent Study. This course of study is designed for the individual who can work independently with minimal guidance. Candidates for this course must be creative and highly motivated.

3 DIMENSIONAL DESIGN I (Semester) Learn to design and form ceramic works of art. Explore methods of fabrication. Topics covered will be brief history of clay in the art world, design for function and art, building and finishing techniques as well as firing.

3 DIMENSIONAL DESIGN II (Semester) The level II course is a continuation of tasks introduced in the level I course. Advanced technique and more complex design work will be encountered. This course will be offered simultaneously with 3D Design I.

3 DIMENSIONAL DESIGN III (Semester) This is a continuation of tasks encountered in level II. Advanced design work will reflect more philosophical thought. Advanced technique will utilize slab, coil and wheel work as well as a combination of technique. Sculptural work will also be approached. The 3D Design III course will be offered simultaneously with 3D Design level I & II

INDEPENDENT STUDY IN 3 DIMENSIONAL DESIGN (Semester) A student who has completed and excelled in 3D Design I, II & III may request permission to take the 3D Design Independent Study. This course of study is designed for the individual who can work independently with minimal guidance. Candidates for this course must be creative in design and problem solving as well as possess a work ethic.

FIGURE DRAWING (Semester) The human figure is central to much of what an artist has to say; therefore, the focus of this course is the human figure. Drawing and sculpting from models teaches one to be spontaneous and forthright when recording the pose. Time is utilized to learn the human form. Time will also be spent completing works of art that include the human form. This course is recommended for those students who have had 2 Dimensional Design I.

BUSINESS & TECHNOLOGY DEPARTMENT

The current business & technology curriculum has been updated to provide the life skills needed by every high school student to succeed in today's high-tech world. Courses are provided not only for individuals desiring to work in an office environment but also for students considering business management, administration, or business ownership as an ultimate career goal. Numerous courses may be selected as electives for those students not wishing to major in business.

2D ANIMATION (Semester) What do *Toy Story*, *Finding Nemo*, *A Bug's Life*, *Ratatouille*, and *Wall-E* all have in common? They are all digitally animated movies created by Pixar animation studios. Now you too can enjoy the experience of creating digital animations. This course will teach you to create, design and produce high quality digital animations in two dimensions with professional techniques once only available to professionals.

ACCOUNTING I (Full Year) Assets, Debits, and Credits OH MY! Assets, Debits, and Credits OH MY! Accounting I: Making Cents of It All is your yellow brick road to financial understanding. If you are interested in majoring in a business-related field in college or pursuing a career in business, Accounting I is the class for you. This course will provide a basic understanding of accounting terminology, the accounting equation, and the processes used to prepare accounting information according to the accounting cycle. Throughout the course students will analyze real world cases and complete accounting records in a simulation activity.

ADVANCED ACCOUNTING (Full Year) Advanced Accounting is a full year course for students who have successfully completed Accounting I and would like to seek employment or major in the accounting field. The course will focus on the accounting cycle for a merchandising business organized as a corporation. Topics will include inventory valuation, asset depreciation, and corporate accounting.

ADVANCED BUSINESS LAW (Semester) Interested in learning more about the law and how it affects you specifically? Sign up for this semester course that will teach you even more about civil & criminal law, contracts, wills, trusts, estates, and much more! Uncover the facts of law through real case scenarios, mock trials, and exposure to law enforcement practices! (11 and 12 grade)

ADVANCED TELEVISION PRODUCTION (Semester) Students will focus on producing the SWTV News program, sports shows and specialty programs. Students will continue to learn both technical and aesthetic concepts involved in studio and live event production. You will continue to develop your skills through in-class activities, daily broadcasting assignments, live event production and various student led projects. Students will experience a variety of roles as they rotate through studio jobs and learn to direct a television program.

AP COMPUTER SCIENCE PRINCIPLES (Full Year) This course consists of an object-oriented programming methodology with an emphasis on problem solving and algorithm development and is meant to be taken in preparation for the AP CSP exam. It also includes the study of data structures and abstraction. Students will learn to design and implement computer programs that solve problems relevant to today's society, including art, media, and engineering. Students will also learn to apply programming tools and solve complex problems through hands-on experiences and examples. This is designed for grades 11 - 12. Successful completion of *Introduction to Programming* is strongly encouraged. In addition, these students will prepare for the Computer Science Principles Advanced Placement examination given in May. Further obligations for this course include extensive summer assignments required to be completed by the first day of class. Failure to complete the mandatory summer assignments will result in dismissal from the AP course.

BUSINESS LAW (Semester) Interested in learning about the law and how it affects your daily life? Sign up for this semester course that will teach you about civil & criminal law, torts, contracts, and much more! Uncover the facts of law through real case scenarios, mock trials, and a visit to the court house just to name a few of the activities this course will entail!

COMPUTER APPLICATIONS (Semester) Do you need to type a report, draw different graphs, perform calculations using different formulas, give a presentation or make a flyer? You can use different parts of the Microsoft Office Suite to meet all your needs. This semester elective will focus on the practical parts of Microsoft Word (Word Processing), Microsoft Excel (Spreadsheets), Microsoft PowerPoint (presentations) and Microsoft Publisher (Desktop publishing). See how this software can make your schoolwork easier!

BUSINESS & TECHNOLOGY DEPARTMENT, cont.

DIGITAL PHOTOGRAPHY (Semester) This course is designed to give the student an introductory through intermediate experience in the world of Digital Photography. Students will gain an exceptional understanding of digital photography cameras, manual settings, lighting, shadows, camera angles and techniques for capturing quality photographic images. Students will also work with Adobe Photoshop, the industry leading software choice for editing used by professionals around the world. At completion of this course, students will have produced a digital photography portfolio that will be used to highlight their work throughout this course.

ENTREPRENEURSHIP (Semester) Do you like the idea of being your own boss? Do you want to own your own business some day? This semester course will take you on a step-by-step journey through the entire process of owning your own business. You will select a product or service to sell, determine your customers, market your business, manage your employees, and assemble a business plan.

FUTURE BUSINESS LEADERS OF AMERICA (Semester) Wish you could focus your time on becoming more involved with FBLA activities? Are you interested in advancing to state and national level competitions? Are you looking for additional merits to separate yourself from everyone else in the job industry? If so, then this course is for you! You will select a competitive event at the immediate start of the course so you can prepare accordingly in order to place at competition. You will complete activities and projects that will provide you with the most powerful leadership skills while earning merits of recognition known as the Business Achievement Awards (F-Future, B-Business, L-Leader, A-America). The Business Achievement Awards (BAA) is an aggressive, self-directed, results-based business and leadership program designed to complement academics while accelerating your leadership skills. Get signed up for this course right away! It looks great on a job application or resume.

INTRODUCTION TO BUSINESS (Semester) Have you ever thought of owning your own business someday? Do you consider yourself a leader? Or do you just simply want to know more about the business world and how it works? Make it your business and enroll in this course that will uncover the exciting concepts of the real business world!

INTRODUCTION TO PROGRAMMING (Semester) Interested in understanding the process used to create game programs? Do you enjoy being challenged by complex technology issues? Are you creative? This semester course will provide you with skills necessary to design your own functional computer programs through hands-on practical projects. NOTE: It is essential that you possess a general understanding of Algebra to be successful in this course.

INTRODUCTION TO VIDEO PRODUCTIONS (Semester) This course is designed to provide the student with an immersive introduction to video productions methods, skills and techniques. Students will learn how to create, write and produce dramatizations, mini-documentaries, music videos and other digital storytelling projects.

MARKETING & MANAGEMENT (Full Year) This full year elective course will provide an opportunity for students to learn the concepts of marketing (and running a business) while creating and operating the school store. Potential students will be required to submit an application and resume, as well as participate in an interview for enrollment in the course. This is a unique opportunity for students to learn the concepts of business and marketing while gaining valuable work experience not available to them in the community. Students will be responsible for all operational activities (ordering, cashiering, merchandising, inventory, sales & customer service). Students will also be responsible for managerial concepts such as: product development, promotions, managing finances, inventory, management, and maintenance of a school store website. It is highly recommended to have taken at least one business class before joining Marketing & Management. This is designed for grades 10 - 12.

MONEY AND BANKING (Full Year) Money & Banking is a full-year course that takes an in-depth look at a range of topics including: business calculations, investments, loans, the Federal Reserve System and how it regulates the flow of money, insurance, and more. Throughout the course students will utilize Microsoft Excel to complete calculations and build spreadsheets for business planning.

MULTIMEDIA PRODUCTIONS (Semester) This course is designed to give the student an introductory experience in various multimedia applications. Students will learn to manipulate digital photographs, record audio tracks, edit digital video and create digital animations.

BUSINESS & TECHNOLOGY DEPARTMENT, cont.

PERSONAL FINANCE (Semester) Looking to get the most “bang” for your buck? Take this semester course to develop a personal budget, compare cost of living, understand credit, investigate saving and investing options, explore borrowing money, and much more!

SPORTS MARKETING (Semester) Fascinated by the world of sports and entertainment? This semester course will cover the intriguing world of sports and entertainment from the marketing perspective. Topics covered will include such items as a brief history of sports marketing, the marketing mix, product life cycle, and pricing strategies. In addition, professional guest speakers from major sporting organizations and real world projects will provide students with a hands-on experience!

TELEVISION PRODUCTIONS (Semester) This 18 week course is designed to introduce students to the principle elements of broadcast journalism and television productions. Students will utilize professional video cameras and industry standard non-linear editing software to shoot, edit and produce ENG stories for the SWTV News program.

WEB PAGE DESIGN (Semester) Do you feel you’re unable to express your creative side? Do you enjoy working with technology? Sign up for this class if you desire a challenge. You will design professional web sites based on real world situations.

YEARBOOK (Full Year Only) Yearbook is journalistic in nature and allows students to participate in the production of the school yearbook. Students in this course are required to learn layout design; write and fit copy, captions, and headlines; sell advertisements; learn basic photography skills; and should be proficient on a computer. Individual responsibility is essential toward completion of assignments for deadlines. Students will also have the opportunity to accept leadership positions and develop new skills as they build the yearbook. This is designed for grades 9 - 12.

CAREER & TECHNICAL EDUCATION DEPARTMENT

All CTE programs are available to 10th, 11th, and 12th grade students and held at Williamsport Area High School. Level 1 students interested will need to complete an application.

AUTOMOTIVE TECHNOLOGY This program prepares students to apply technical knowledge and skills in the servicing and maintenance of all types of automobiles and light trucks. A state-of-the-art laboratory is available that enables complete instruction in all aspects of vehicle maintenance.

BIOTECHNOLOGY This is an instructional program that focuses on the application of the biological sciences, biochemistry and genetics in preparation of new and enhanced agricultural, environmental, clinical and industrial products including the commercial exploitation of microbes, plants and animals. This program may include instruction in bioinformatics, gene identification, phylogenetics and comparative genomics, bioinorganic chemistry, immunoassaying, DNA sequencing, xenotransplantation, genetic engineering, industrial microbiology, drug and biologic development, enzyme based production process, patent law and biotechnology management and marketing, applicable regulations and biotechnology ethics.

COMMERCIAL ART/DIGITAL DESIGN This program prepares students to apply the elements and principles of design, basic drawing skills, color, typography and creativity. Students will learn intermediate components of Adobe’s graphic design software. In addition, students will study advertising and design, illustration, page layout, computer graphics, digital photography, color separation, digital file preparation and output, and portfolio preparation.

COMPUTER INFORMATION TECHNOLOGY This program begins with the CompTIA A+ certification then works with Cisco Certified Entry Networking Technician (CCENT). The curriculum covers networking fundamentals, WAN technologies, basic security and wireless concepts, routing and switching fundamentals, and configuring simple networks. Installing Premises Cabling following the TIA/EIA-568B standards would be included in this class.

CAREER & TECHNICAL EDUCATION DEPARTMENT, cont.

CONSTRUCTION TRADES This program prepares students to apply technical knowledge and skill in the erection and installation of buildings and other structures using assorted materials such as metal, wood, stone, brick, glass, concrete, and composition materials.

CULINARY ARTS This program provides instruction and experiences for students interested in careers in all areas of the food service industry. Students will receive direct experiences in the Millionaire Café, which is a student-operated restaurant in the WAHS.

EARLY CHILDHOOD EDUCATION This will prepare students for a variety of occupations in child care and guidance. Students will gain hands-on experience with small children in a school-operated child care center.

ENGINEERING & ROBOTICS This program introduces students to a broad range of engineering technology topics such as programming, robotics, magnetism, generator/motors, process control and AC & DC circuit analysis.

HEALTH OCCUPATIONS This is a cluster program designed to prepare a person for employment in health occupations such as a Certified Nurse's Assistant.

HORTICULTURE/LANDSCAPING This program provides students with the skills to produce, process, and market plants, shrubs, and trees for ornamental purposes. A state-of-the-art greenhouse is used for plant production.

PRECISION MACHINING This program introduces students to the design process to solve production problems by researching and designing a project or item, building the jigs and fixtures, and producing the finished projects. Students will experience foundry work, welding, flame cutting and welding, basic CNC programming, mill, drill, saw, grinder and lathe operation, precise measurement, blueprint reading, etc.

WELDING This program provides students with the skills to use a variety of welding processes using standards established by the American Welding Society.

DRIVER EDUCATION

BEHIND-THE-WHEEL-TRAINING This optional course consists of a minimum of six hours of driving. Included in these six hours will be such experiences as parking in municipal parking lots, driving and passing on Route 15, a trip to Route 80 and general city driving. Driving will be before/after school or during the summer, but only after completing the Driver Education course.

DRIVER EDUCATION This optional course is now offered at various times throughout the year after school for credit, and meets for 20 hours in the classroom (with 10 hours of homework). It covers such topics as basic maneuvers, gauges and control devices of a car, rules of the road, use of road maps and emergency situations.

ENGLISH DEPARTMENT

ADVANCED ENGLISH and AP ENGLISH COURSES:

The advanced English courses in grades seven through eleven are designed to challenge and motivate students who have demonstrated the potential to excel in language arts. These courses prepare students for post-secondary education employing a concentration in both literature and writing. The AP English course is designed to prepare students to take the advanced placement examination in Literature and Composition. Students who take this examination and score proficiently may be able to use this score as a replacement for a freshman English course in college.

In order to be admitted into an advanced English or AP English course, a student must average at least an 85% (if from an advanced course) or a 90% (if from an academic course) for a year end grade the previous year. Parents/guardians will sign a waiver indicating their understanding that students must maintain these averages in order to remain in the advanced program. Students entering an advanced English or AP English course will be asked to complete summer assignments prior to a course beginning in the fall. If the student does not complete these required assignments by the first day of the school year in the fall, the student will be asked to leave the class.

Advanced English and AP English courses are content-driven courses. Therefore, students enrolled in these courses are expected to keep pace with the content. At the end of the first marking period, if the teacher identifies a student as unlikely to be successful given the volume or level of content, the student may be asked to leave the class. The student and parent(s) will be an integral part of this discussion.

Additional details about the advanced English and AP English courses are available upon request. Please contact either the English department chairperson or your child's guidance counselor.

ENGLISH 9 English 9 will consist of material based on the Common Core Standards for 9th grade students. Students will use evidence from texts to support analysis, reflection, and research. Students will organize writing into clear, coherent, well-developed paragraphs and essays while keeping in mind both audience and purpose. Students will read closely to determine not only what the text states explicitly, but also the themes and logical inferences within the works. Vocabulary will be studied, along with novels, short stories, poems, and plays.

ADVANCED ENGLISH 9 Designed to challenge and motivate students who possess the potential to excel in language arts, Advanced English 9 has been designed for those committed to completing a four-year advanced program culminating in Advanced Placement English 12. In addition to mastering an intensive vocabulary program, freshman students will study literature including a Shakespearean play, several novels, short stories and poetry. Students will also develop their ability to write effectively different kinds of essays.

ENGLISH 10 English 10 will consist of material based on the Common Core Standards for 10th grade students. Students will use evidence from texts to support analysis, reflection, and research. Students will organize writing into clear, coherent, well-developed paragraphs and essays while keeping in mind both audience and purpose. Students will read closely to determine not only what the text states explicitly, but also the themes and logical inferences within the works. Vocabulary will be studied, along with novels, short stories, poems, and plays. The Keystone Exam for Literature will be the final exam for the course.

ADVANCED ENGLISH 10 Advanced English 10, the second of four courses in the Honors English program, emphasizes the study of American literature from 1620 to the present. Furthermore, the class includes an intensive study of vocabulary as well as the continuing development of critical writing skills. Students who are currently enrolled in Advanced English 9 and who are earning a minimum 90 % average should select this class in order to remain in the Advanced English program. The Keystone Exam for Literature will be the final exam for the course.

ENGLISH 11 English 11 places emphasis on the study of World and American literature and develops each student's critical understanding of selections by building basic literary, language, and composition skills. Included is an intensive vocabulary-building program designed to improve each student's verbal skills. This English class is designed to prepare students for college if they choose this path. Particular emphasis is placed on mastering higher-level vocabulary, developing intermediate composition skills, and critically reading thousands of pages of World literature including novels, nonfiction, short stories, poetry, and drama.

ENGLISH DEPARTMENT, cont.

ADVANCED ENGLISH 11 As the third sequential course in the Advanced English program, this class will study the development of English literature, focusing on selected works by a variety of world writers – both classic (such as Shakespeare’s *Macbeth*) and modern. Particular emphasis is placed upon poetry, from the Renaissance to Modernism. In addition, students will continue their intensive study of vocabulary and further develop their critical reading, thinking, and writing skills.

AP ENGLISH 12 Designed to prepare students for the AP Exam in English Literature and Composition, this class includes major works by Shakespeare, Camus, Woolf, Dillard and many others. In addition to novels and plays, students will read a great deal of poetry, many short stories, and a few essays. Reading, analyzing, and responding in writing to the works of classic authors is the thrust of this course. Students taking this class will be challenged to improve on essay structure and content and to master upper-level vocabulary. These students will have the opportunity to hone their critical thinking, reading, and writing skills, which should prepare them for the rigors and expectations of the college classroom. In addition, these students will prepare for the English Literature Advanced Placement examination given in May. Further obligations for this course include extensive summer assignments required to be completed by the first day of class. Failure to complete the mandatory summer assignments will result in dismissal from the AP course.

ENGLISH 12 English 12 consists of studying novels, short stories, and plays in order to enhance critical thinking skills and vocabulary skills. Students will write a research paper based on an interest area of the individual student. Students will focus on learning to organize and communicate thoughts and findings in both verbal and written formats.

COMPOSITION (Semester) This course is designed to provide high school senior students a solid foundation in writing through a college preparatory environment. Students will be expected to read sample essays, develop an original thesis statement, and compose a final paper for each mode of writing. In addition, editing, revising, and proofreading are essential tasks when developing and completing a good piece of writing. Students will build on their grammar, usage, and mechanical skills with an in-depth analysis of their writings. Colleges and universities demand that student writing be original, and therefore, this course will prepare college-bound seniors for this level of writing. (*This class will be limited to 15 participants.*)

CREATIVE WRITING (Semester) This course will provide students in grades 11 and 12 the opportunity to express their creativity through the written word. Much of the writing will be based on an in-depth study of models of observation, experience, and literature. It is a requirement that students share their writings and provide feedback to their peers daily as this will help them enhance their writing abilities. Throughout the course, students will maintain a professional writing portfolio that will become part of their final grade.

SPEECH COMMUNICATIONS (Semester) The communications course is an elective available to all students in grades 10-12 who want to improve upon formal speaking skills. Students present a wide variety of speeches ranging from informative and persuasive to impromptu and demonstration. All students find this an excellent introduction to the basics of public speaking and are able to develop a strong sense of confidence in speaking in and out of the classroom.

VERBAL SAT (Semester) This course is designed to acquaint the junior students with the verbal standardized tests required for admission to most colleges. This course will give students the opportunity to improve SAT scores through daily vocabulary, grammar, and test-taking exercises. They will be required to learn and understand vocabulary each day and apply it to their practices over the course of the semester. The students should improve such verbal skills as the ability to write clearly and correctly, to read with understanding, and to use words correctly.

FAMILY AND CONSUMER SCIENCE DEPARTMENT

Family and Consumer Science education's mission is to manage, with reason and creativity, the challenges across the lifespan of living and working in a global society.

CHILD DEVELOPMENT (Semester) Students will study the development of children, ages one through six, in all four areas of development. This course explores existing research on child development as well as new brain development research. Students will be introduced to career opportunities in the childcare field and the skills and interests necessary to work with children. We will explore the importance of reading to young children and children's literature. Nutritional needs of young children and disciplining young children will also be addressed. Students will have the opportunity to practice learned skills through hands-on activities with children.

CREATIVE FOODS (Semester) Students will express their creative skills in the kitchen as we learn more about baking and decorating. They are responsible to create individual and group projects. We will also learn about other regions of our country as well as other cultures around the world through the world of food.

FUNDAMENTALS OF FOODS (Semester) Fundamentals of Foods is an introductory course for students who are interested in learning to prepare nutritious and appealing food for themselves and their families. Basic food preparation techniques will be learned as we learn to cook with various foods. Proper sanitation and measuring techniques will be emphasized.

INFANT DEVELOPMENT (Semester) Students will study human development from conception through age one. Areas of study include prenatal development, hereditary and environmental birth defects, nutrition and complications during pregnancy, social, emotional, physical, and intellectual development during an infant's first year. Students will analyze issues in health and safety at this stage of development.

MEAL PLANNING AND PREPARATION (Semester) Meal Planning and Preparation reviews basic food preparation techniques and builds on the skills learned in Fundamentals of Food. The students will expand their knowledge of nutrition by applying meal planning principles in the selection, planning, preparation, and serving of meals that meet the nutritional needs of individuals across the lifespan. They will also explore education and career opportunities in the food service field.

QUILTING (Semester) Students will apply color and design elements and will develop their sewing skills as they construct a quilt. Basic skills are developed in this hands-on course. All students will complete at least one finished product. Students are responsible for costs of supplies.

FOREIGN LANGUAGE DEPARTMENT

FRENCH I Students are introduced to the four language proficiencies of listening, speaking, reading, and writing. Emphasis is placed on vocabulary acquisition and the formation of basic sentence patterns. Students are also introduced to French geography, customs, and culture.

FRENCH II The language skills of listening, speaking, reading, and writing from French I are reinforced and expanded appreciably. Emphasis is placed on expansion of verb and tense usage. Additional cultural activities that foster a familiarity with Paris are presented. Students are encouraged to express themselves through situational scenarios.

FRENCH III This course provides a thorough review of grammar from previous levels. Additional tenses and complex grammar structures are emphasized. Cultural activities center around the French influence in the United States and a comparative study of the major regions in France. Reading and writing in the target language are required. It is strongly advised that students enrolling in this course have an average of 85% or better in previous foreign language classes.

FOREIGN LANGUAGE DEPARTMENT, cont.

FRENCH IV Oral and written skills continue to be developed. Oral participation is encouraged by short class presentations on situational, cultural, or historical topics. Students read selections that pertain to French history and representational literature. Authentic documents such as newspaper articles and periodicals also comprise the reading material. Grammar principles and verb tenses are reviewed and expanded. Current social and political issues are discussed. It is strongly advised that students enrolling in this course have an average of 85% or better in previous foreign language classes.

SPANISH I Students are introduced to the four basic skills of reading, writing, listening and speaking. A special emphasis is placed on the acquisition of vocabulary and the formation of basic sentence patterns. Pertinent topics dealing with current events in the Hispanic world are discussed when appropriate.

SPANISH II The basic skills introduced in Spanish I are reinforced and built upon. New verb tenses are introduced and practiced. Students are encouraged to express thoughts increasing in the second language, both orally and in writing.

SPANISH III This course is designed to provide an intensive grammar review for material covered in the first and second levels. Composition and speaking are practiced, and the acquisition of new information through reading in the second language is required. It is strongly advised that students enrolling in this course have an average of 85% or better in previous foreign language classes.

SPANISH IV Oral and written skills continue to be developed. Oral participation is encouraged by short class presentations in Spanish. Authenticity of pronunciation is emphasized. Vocabulary is explained through the use of written materials. It is strongly advised that students enrolling in this course have an average of 85% or better in previous foreign language classes.

HUMANITIES

PSYCHOLOGY (Semester) This course is designed to introduce students to basic topics in Psychology. Areas to be examined will include behavior disorders, biology and behavior, sensation and perception, classical and operant conditioning among others. This is designed for grades 11 - 12.

INDUSTRIAL ARTS DEPARTMENT

CABINETMAKING (Semester) In this course, students will use powered and unpowered woodworking equipment and tools to construct a hall mirror project. Students will use the miter saw, joiner, planer, and table saw to make the pieces. Students will use various measuring and layout tools to construct pieces that will fit together. Students will use mechanical and adhesives to join the pieces together.

COMPUTER-AIDED DESIGN AND DRAFTING (CADD) (Semester) This course will introduce students to 3-dimensional parametric modeling and 2-dimensional drafting using Autodesk Fusion 360 software. Emphasis will be placed on the line, circle, constraint, extrude, revolve and sweep commands used to create 3-dimensional models. Technical drawing concepts covered will be multi-view drawings, isometric drawings, orthographic projection, dimensioning, and section views. Students who desire to pursue careers in mechanical, construction, architecture, engineering or scientific fields will benefit from this class.

MACHINE SHOP (Semester) In this course, students will use machine tools to cut metal. Students will make a soft-faced hammer from steel and brass. The machine tools used will be the lathe, drill press and pedestal grinder. Students will also use several hand-operated metal-working tools including saws, files, and layout tools. Students will learn to make precision measurements with a micrometer. Students will also be required to cast a project in the foundry area.

SHEET METAL (Semester) In this course, students will use sheet metal tools to separate, form and join sheet metal. Students will make a toolbox. The sheet metal tools used will be the shear, box and pan brake, bar folder, slip rolls and spot welder. Students will also use several hand-operated sheet metal tools including tin snips, hemming pliers, and layout tools. Students will also cast the handle for the tool box in the foundry area.

INDUSTRIAL ARTS DEPARTMENT, cont.

WELDING (Semester) In this course, students will learn three welding processes and use them to make a hibachi grill. The three welding processes are SMAW (shielded metal arc welding), brazing, and resistance (spot) welding. Students will also cast some parts for this project in the foundry area. Students will also be required to use other metal-working equipment, tools and procedures to complete the project, including layout and measuring tools, forging, sawing, and filing.

WOOD TURNING (Semester) In this course, students will use a wood lathe to make a table lamp. They will complete the project by assembling the electrical components. Students will also make a baseball bat. Students will use the joiner, planer and table saw to prepare the wood for turning on the lathes.

MATHEMATICS DEPARTMENT

ALGEBRA I Algebra I is the fundamental course needed to advance into other branches of mathematics. The discovery of mathematical principles and the development of concepts are stressed as the fundamental operations of elementary Algebra are mastered. Students work with the real number system; operations in real numbers, including signed numbers; open sentences in one or two variables; graphing; equation solving; polynomials and factoring; operations with fractions. The Keystone Exam for Algebra serves as the final exam for this course.

ALGEBRA II This course will continue the study of algebra that was begun in Algebra I and will include such topics as higher-order equations and the complex number system.

ALGEBRA II ADVANCED This is the third course in the honors math sequence. It will continue the study of algebra concepts and theory, and will include the study of non-linear equations and the complex number system. It is strongly advised that students enrolling in this course have an average of 85% or above in Honors Algebra I and Honors Geometry.

AP CALCULUS This course will consist of the three major concepts of calculus: limits, derivatives, and integrals. The course will provide an in-depth study of these concepts. Emphasis will be placed on computation, mathematical theory, and applications. This course will follow the College Board guidelines for AP Calculus AB, and students will be prepared to take the AP Calculus Exam in May. It is strongly advised that students enrolling in AP Calculus have an average of 85% or above in Honors Trigonometry. Further obligations for this course include extensive summer assignments required to be completed by the first day of class. Failure to complete the mandatory summer assignments will result in dismissal from the AP course.

APPLIED ALGEBRA I This non-academic course will study topics relevant to everyday needs and will introduce elementary concepts of algebra and their practical applications. This course is only for students who scored Basic or Below Basic on the PSSA exam.

APPLIED ALGEBRA II This is the third non-academic course in the applied math sequence and will continue the study of algebra topics, their practical applications, and topics relevant to everyday needs. This course is only for students who scored Basic or Below Basic on the PSSA exam.

APPLIED GEOMETRY This is the second non-academic course in the applied math sequence and will stress the concepts of geometry as they apply to everyday life. This course is only for students who scored Basic or Below Basic on the PSSA exam.

APPLIED TRIGONOMETRY / ADVANCED ALGEBRA This course is the fourth non-academic course in the applied math series and is designed to relate the mathematical process of trigonometry and algebra to everyday life. This course is only for students who scored Basic or Below Basic on the PSSA exam.

GEOMETRY This course is the study of the properties of plane and solid figures that are important in the development of modern civilization. Emphasis is placed upon the development of a postulation system and the deductive method of proof of Euclidean postulates. Algebra I is a prerequisite.

MATHEMATICS DEPARTMENT, cont.

GEOMETRY ADVANCED This is the second course in the honors math sequence. Geometry is the study of the properties of plane and solid figures that are important in the development of modern civilization. Emphasis is placed upon the development of a postulation system and the deductive method of proof of Euclidean postulates. It is **strongly** advised that students enrolling in this course have an average of 85% or above in all previous honors courses.

MATH SAT PREPARATION (Semester) Do you want to improve your SAT score? If you are not sure of the correct answer, should you guess? In this class you will learn shortcuts, strategies, mathematical insights and critical-thinking skills to help you prepare for the test and improve your scores! Your strengths and weaknesses will be analyzed to focus on where you need remediation and you will monitor your progress! This class will provide a complete review of the material in the mathematics portion of the SAT focusing on reasoning and problem solving skills in four categories: arithmetic, algebra, geometry, and other topics. We will focus on ways to increase your speed, accuracy and problem solving skills! Let's raise those scores!

PRECALCULUS This course will pick up where Advanced Trigonometry left off and explore the topics of higher-order polynomials and equations, logarithms and exponential functions, sequences and series, and then continue into the study of Calculus. It is **strongly** advised that students enrolling in this course have an average of 85% or above in Honors Trigonometry.

STATISTICS (Full Year) This course is designed to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will analyze and present real-world business applications data using multiple representations and various technologies. Prerequisites are Algebra I, Geometry, and Algebra II. Recommended for 12th grade.

TRIGONOMETRY This course is for those students who have completed two years of Algebra and one geometry course. Topics that will be covered include the basic trig functions, graphing, polar coordinates, vectors, triangle solution and the applications of these topics.

TRIGONOMETRY ADVANCED This is the fourth course in the honors math sequence. It will include traditional trigonometric topics such as the unit circle, trigonometric functions, circular functions, graphing, and sinusoidal equations. Also included will be advanced topics such as mathematical induction, sequences and series, logic, logarithms and exponential functions, and higher-order polynomials and equations. It is **strongly** advised that students enrolling in this course have an average of 85% or above in all previous honors courses.

MUSIC DEPARTMENT

"88 KEYS – 2 HANDS – NO PROBLEM!" PIANO LAB (Semester) What has 88 keys? A piano, of course! Learn how to play the music of the masters and more. This semester course is designed to give you a basic understanding of how to play the piano. You will learn how to use your hands both independently and together to achieve a positive musical experience.

BAND I This class is available to instrumental students with previous instrumental experience. Students interested in beginning their instrumental career should contact the band director. Each student is required to participate in heterogeneous or homogeneous lesson groups offered on a rotation basis through the school district. Marching band is a requirement for students (in grades 8-12) enrolled in the band program.

BAND II and CHORUS II Students have the option to participate in both band and chorus ensembles. In grades 9-12, band and chorus meets every day during first period. Students alternate their days between band and chorus so that equal time is shared between ensembles.

MUSIC DEPARTMENT, cont.

CHORUS I This is an elective course for students in grades 9-12. The class meets every day during the first period of the day. The course includes study of basic theory and music reading. There are two concerts a year, one for the holiday season and one in the spring. A variety of music is performed that is appropriate for the occasion. Along with the class, the students are asked to attend three vocal labs per marking period. These are small group sessions that will also occur during the school day. These sessions are set up for students to get extra help on their music.

FROM BACH TO ROCK (Semester) This course will cover the lives and music of composers beginning with Bach through today's popular music. Students will critically listen to and reflect on music compositions from every era. Students will also learn beginning music theory (note reading, rhythm reading, chord construction, etc...)

PHYSICAL EDUCATION/HEALTH EDUCATION DEPARTMENT

CURRENT ISSUES IN HEALTH (Semester) This course is designed to teach current health issues with a basic knowledge of all aspects of health. Topics may include: nutrition, body systems, disease, first aid, health careers and personal care. This course is a graduation requirement.

FUNDAMENTALS OF TEAM SPORTS (Semester) This course is designed for 9th grade students who enjoy team sports in an intramural setting. Students will assess their sport-specific skills, set semester goals, and work toward those goals while participating in the following activities: volleyball, basketball, floor hockey, softball, football, lacrosse, dodge ball, and soccer.

NET SPORTS (Semester) This course is designed for students to learn the skills needed to play and engage in tournament play in net sports. Net sports may include: volleyball, table tennis, badminton, pickle ball, paddle ball and eclipse ball.

RECREATIONAL ACTIVITIES (Semester) This course is designed for students who enjoy a variety of physical activities. Students will assess their personal fitness levels, set semester goals, and work toward those goals while participating in activities such as: bowling, Frisbee activities, volleyball, racquet sports, golf, rope jumping, and personal fitness assessment.

STRATEGIES AND TOURNAMENT PLAY OF TEAM SPORTS (Semester) This course is designed to develop advanced strategies during game play of team sports. Emphasis is on teamwork and cooperation among class members to achieve common team goals.

WEIGHT TRAINING AND FITNESS (Semester) This course is designed for students who are interested in weight training and fitness activities with little or no experience.

SCIENCE DEPARTMENT

ADVANCED BIOLOGY Recommended for students who obtained a 90% or higher in Grade 8 Science, this faster paced and more student-directed version of the regular ninth grade biology course will surely be a challenge. All grade nine students will take either biology or advanced biology and will be required to take the Keystone Exam at course end. The material is divided into two modules. Module A covers basic biological principles including cells, the chemistry of life, cellular energetics (respiration and photosynthesis) and homeostasis. Module B covers the continuity and unity of life including cell growth and reproduction, DNA, genetics, evolution, and ecology. The Keystone Exam for Biology will be the final exam for the course.

ADVANCED PLACEMENT (AP) CHEMISTRY The AP Chemistry course provides students with a foundation to support future advanced course work in chemistry. Through inquiry-based learning, students develop critical thinking and reasoning skills. Students cultivate their understanding of chemistry and science practices as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. The AP Chemistry course is equivalent to that of a first-year college level chemistry course. The course will involve extensive laboratory work and students will develop an ability to describe systems in written, verbal, symbolic and mathematical ways. This course will meet two periods each day to facilitate the required laboratory work. In addition, these students will prepare for the Advanced Placement Chemistry examination given in May. Further obligations for this course include extensive summer assignments required to be completed by the first day of class. Failure to complete the mandatory summer assignments will result in dismissal from the AP course.

ADVANCED PHYSIOLOGY Physiology is the in-depth study of the anatomy of the human body and how that anatomy works. The course will start off as a broad introduction to basic terminologies and organ systems applied to the body. We will then transition into foundational histology and in-depth analysis of all major body systems (time permitting). Various labs (dissections) and lab-practicals will be performed as they fit into the curriculum throughout the year. The final section of the year will be an introduction into cellular biology/biochemistry to help transition students into the option of taking Chemistry or AP Chemistry the next year. Material will be covered at a faster pace and in more detail than regular Physiology.

ALTERNATE ENERGY (Semester) A project based course dealing with wind energy, fuel cells, solar power, geothermal, and similar technologies. Select topics in electricity and electronics may be included.

ASTRONOMY Astronomy is the study of the earth and sky, the solar system, the stars and the galaxies. The tools used by astronomers are examined. Among these are the telescope, spectroscope, radio telescope and earth satellites. The path of stellar evolution will be followed leading to a discussion of white dwarfs, neutron stars and black holes. The theories of the evolution of the universe will be detailed. The possibility of life on other planets will be considered. A summary of the present knowledge of the structure and properties of the sun, earth, moon, Mars and Venus will be given. While the mathematics involved will be kept to a minimum, algebra will be used when needed.

BIOLOGY All grade nine students will take either biology or advanced biology and will be required to take the Keystone Exam at course end. The material is divided into two modules. Module A covers basic biological principles including cells, the chemistry of life, cellular energetics (respiration and photosynthesis) and homeostasis. Module B covers the continuity and unity of life including cell growth and reproduction, DNA, genetics, evolution, and ecology. The Keystone Exam for Biology will be the final exam for the course.

CHEMISTRY Fundamental concepts and applications of chemistry are presented to students in order to foster a deeper understanding of the world around us. Topics to be studied include the structure of the atom, chemical reactions and equations, kinetic theory, gases, and others. Laboratory activities and small group inquiry-based activities enhance the information presented in class discussions. Algebra and basic math skills are used frequently in this course.

FORENSICS This semester long course is meant to be an introduction to the study of forensics. It applies concepts from biology, chemistry and physics to mysteries of crime solving in an integrated approach. Students perform labs, research, and simulated crime scene analysis. Topics such as fingerprints, ballistics, blood spatter, handwriting, and others are introduced.

SCIENCE DEPARTMENT, cont.

PHYSICS The major objectives of this introductory course in Physics are to teach the basic principles and concepts of physical science by the use of a mathematical experimental approach and to also develop an ability to apply logical thinking in solving problems. Areas of consideration include the general laws of physics, mechanics, machines, heat, sound and light. This course is highly recommended for academic seniors and for seniors going into technological fields ranging from medical technology through engineering.

PHYSIOLOGY & HUMAN ANATOMY Physiology is the in-depth study of the anatomy of the human body and how that anatomy works. The course will start off as a broad introduction to basic terminologies and organ systems applied to the body. We will then transition into foundational histology and in-depth analysis of all major body systems (time permitting). Various labs (dissections) and lab-practicals will be performed as they fit into the curriculum throughout the year.

SOCIAL STUDIES DEPARTMENT

AMERICAN HISTORY I This course reviews exploration and colonization efforts made by various nations in an attempt to settle North America. American History from the Revolutionary War period until the start of World War I will be examined. The Civil War along with its causes and effects will be studied in great detail. Required.

AMERICAN HISTORY II This course is intended to be a follow-up to American History I. Special emphasis is placed on the political, social, and economic aspects of the American story. The course content will include World War I, the Roaring Twenties, the Great Depression, World War II, the Cold War, Vietnam, the Civil Rights Movement, and key events of the 1980s, the 1990s and 2000's.

AMERICAN POLITICS & ECONOMICS American Politics & Economics is designed for senior high Social Science students. Students will investigate the American government and its political process for one semester and principles of economics for a second semester. This year-long course will emphasize the functions and purpose of the government of the United States as well as key concepts in micro and macroeconomics. Focus of study will include bureaucracy, the legislative process, checks & balances, federalism, civil rights & liberties, constitutionality, supply & demand, elasticity, economic determinants, GDP, GNP, productivity and future possibilities.

AP UNITED STATES GOVERNMENT & POLITICS Designed for 12th grade Social Science students committed to college-level rigor. Students will form concentrated evaluations of the American Governmental legacy and the United States political process. This swift paced 34 week course will emphasize the structure and function of the United States Government as directly and indirectly provided in the Constitution. Further study will focus the civil rights, liberties, and interests of peoples, parties, and various social groups. It is highly recommended that students who register for this course have attained an average of 85% or higher in their previous social science AP course or a 90% or higher in their previous mainstream academic course. Further obligations for this course include extensive summer assignments required to be completed by the first day of class. Failure to complete the mandatory summer assignments will result in dismissal from the AP course. Please recognize this course is demanding for students throughout the summer and academic year.

AP UNITED STATES HISTORY This course is a college preparatory survey of American History from the 1700s to the modern era. It is a fast-paced course that incorporates textbook, primary and secondary source readings and documents. It requires a self-motivated student strong in analysis and evaluation of materials who is proficient in reading and writing skills. The APUSH examination is in May. It is recommended that students who enroll have an average of 90% or better in previous history classes and have already taken, but are NOT required to have taken, American History II.

SOCIAL STUDIES DEPARTMENT, cont.

AP WORLD HISTORY The AP World History course is a collegiate level, year-long course with an emphasis on non-Western history. The course is designed to develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course relies heavily on college level texts, primary source documents, and outside readings. Students will be required to participate in class discussions, individual assignments, and group projects. A special emphasis will be given to historical writing through essay and document-based questions (DBQ). Students will prepare for the World History Advanced Placement examination given in May. The student is financially responsible for the AP exam. It is strongly recommended that students enrolled in this course have an average of 90% or better in previous history courses or an 85% in a previous AP History course. In addition, it is also recommended but not required that a student has taken World Cultures. This course has a summer reading assignment that requires completion by the first day of school or the student will be asked to drop the class.

WORLD CULTURES World Cultures is a year-long course that places an emphasis on the study of World Religions. While looking at the historical development of each of the five major world religions, students will explore the basic tenets of belief, social issues and concerns, key figures, and/or arts and literature. Dependent upon time and current events, other major units of study can include but not limited to What is Culture?, United Nations, Geography, Holidays Around the World, and the Holocaust. Regional and/or country studies will be conducted as a major project at the end of the year.