

**South Williamsport Senior High School**  
**Curriculum Booklet**  
**2026-2027**

# Graduation Requirements

## Local Requirements

4 credits – English  
4 credits – Math  
3 credits – Social Studies  
3 credits – Science  
0.5 credits – Physical Education  
0.5 credits – Health  
9 credits – Electives

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TOTAL: 24 credits

\*1-2 years CTE = 23 credits      \* 3 years CTE = 22 credits

# Graduation Requirements, cont.

## Additional Requirements – State Requirements

The Commonwealth of Pennsylvania mandates graduation requirements for all students in the Pennsylvania public school system. In addition to local requirements, all students must complete one of the five options below to satisfy the state graduation requirements.

1. Score proficient or advanced on each Keystone exam – Algebra I, Literature, and Biology.
2. Earn a composite score of 4452 on the Algebra I, Literature, and Biology Keystone exams. Students must have at least one proficient or advanced and no below basic scores.
3. Pass (70+) the courses associated with all three Keystone exams (Algebra 1, English 10, and Biology) and satisfactorily complete one of the following:
  - a. An established score on one of the following alternative assessments:
    - i. SAT - 1010
    - ii. ACT - 21
    - iii. PSAT/NMSQT - 970
    - iv. ASVAB - 31
  - b. Gold level on the ACT WorkKeys Assessment
  - c. Score 3 or better on an AP exam that is content-related to each Keystone exam
  - d. Successfully complete a concurrent enrollment course that is content-related to each Keystone exam
  - e. Acceptance to an accredited 4-year institution of higher education and evidence of the ability to enroll in college-level coursework
  - f. Successfully complete a pre-apprenticeship program
4. Pass (70+) the courses associated with all three Keystone exams (Algebra 1, English 10, and Biology), be a Career and Technical Education (CTE) concentrator, and satisfactorily complete one of the following:
  - a. Attain an industry-recognized credential related to their program of study
  - b. Demonstrate a high likelihood of success on an approved industry-based competency assessment (NOCTI)
5. Pass (70+) the courses associated with all three Keystone exams (Algebra 1, English 10, and Biology) and demonstrate three pieces of evidence including:
  - a. One of the following:
    - i. SAT subject test – 630
    - ii. Silver level on ACT WorkKeys Assessment
    - iii. Score 3 or better on any AP exam
    - iv. Successfully complete any dual enrollment course or other approved post-secondary course
    - v. Receive an industry-recognized credential
    - vi. Acceptance to an accredited, other than 4-year institution of higher education and evidence of the ability to enroll in college-level coursework
  - b. Two additional pieces of evidence, including one more of the options listed above, or:
    - i. Attainment of a score of proficient or advanced on any Keystone exam
    - ii. Successfully complete a service-learning project
    - iii. Successfully complete an internship, externship, or cooperative education program
    - iv. Compliance with NCAA Division II academic requirements
    - v. Letter guaranteeing full-time employment or military enlistment

# CURRICULUM BOOKLET

SOUTH WILLIAMSPORT JR/SR HIGH SCHOOL  
SOUTH WILLIAMSPORT, PA

## DESCRIPTION OF COURSES BY DEPARTMENT

### ART DEPARTMENT

(2D) 2 DIMENSIONAL DESIGN I (Semester--.5 Credit) Drawing from observation to develop strong drawing skills. Focus will be on identifying and recording value, proportion and spatial relationships.

(2D) 2 DIMENSIONAL DESIGN ADVANCED (Semester--.5 Credit) This course is a continuation of 2D Design skills with the aim that you will become more comfortable recording and expressing information visually. This course 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. Must have completed 2D Design 1 prior to taking this course. Prerequisite – 2D Design 1

(3D) 3 DIMENSIONAL DESIGN I (Semester--.5 Credit) 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.

(3D) 3 DIMENSIONAL DESIGN ADVANCED (Semester--.5 Credit) This course is a continuation of tasks introduced in the level I course. Advanced technique and more complex design work will be encountered. Prerequisite – 3D Design 1

FIGURE DRAWING (Semester--.5 Credit) 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 advanced course is recommended for those students who have completed 2D Design I and in grade 10-12.

## 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.*

**ACCOUNTING** – Small Business Accounting (Semester--5 Credit) Begin to make cents of financial accounting. Applicable online readings & simulations will help students explore invoices, financial statements, cash control systems, and entries in a general ledger. This yellow brick road course will provide the building blocks for understanding the aspects of sole proprietorship. Throughout the semester long course, students will receive an overview of accounting concepts, careers, policy (AICPA, GAAP, etc.), t-accounts, expenses, wage calculations, audits, the fundamentals of the accounting equation (short- & long-term assets, liabilities, & owner's equity) as well as analyze how transactions affect the accounting equation for a service business organized as a proprietorship. Using a Knowledge Matters online simulation, students will learn to keep accounting transactions organized using special journals (Purchases, Sales, Cash Payments, & Cash Receipts), manage payroll records, corporate tax, and perform forensic accounting to investigate fraud and errors within a business. **This course can be used to fulfill math core requirements toward graduation.**

**ADVANCED PROGRAMMING** (Semester--5 Credit) Did you enjoy Introduction to Programming? Are you ready to learn more? If so, sign up for this course. You will learn additional coding concepts to increase the complexity of your program designs. Prerequisite – Introduction to Programming

**AP COMPUTER SCIENCE PRINCIPLES** (Full Year—1 Credit, weighted 1.1) 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. In addition, students will explore various technological gadgets and apply coding concepts (i.e. UNITY, Spheros, Ozobots, Mbots, Raspberry Pi, etc.) These students will prepare for the Computer Science Principles Advanced Placement examination given in May. This course is designed for grades 11 - 12. **"AP® and Advanced Placement® are registered trademarks of the College Board. Used with permission."**

**CABINETRY AND CONSTRUCTION** (Semester--5 Credit) This course is designed to allow the student to expand their individuality and creative expression through advanced level projects in Woodworking. Primary focus is given to cabinet design and construction. Students develop a working understanding of computer aided design, construction mathematics, cabinet building and finishing techniques. Emphasis is placed on learning comprehension, mathematics, safe practices and problem solving. Students are expected to work both in groups and individually. Prerequisite - Wood Technology I

## **BUSINESS & TECHNOLOGY DEPARTMENT, cont.**

(CADD) COMPUTER-AIDED DESIGN AND DRAFTING (Semester--.5 Credit) 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.

ENTREPRENEURSHIP (Semester--.5 Credit) Do you like the idea of being your own boss? Or do your strengths lie in innovating an employers' organization from within? The beginning of this semester course will take you on a journey of owning your own business. With online simulations and major projects, students will select a product or service to sell, determine customer segments, market the business, manage the employees, and assemble a business plan. Additional marketing topics such as marketing mix, product life cycle, and pricing strategies will be interwoven in these projects. Additionally, students will interpret personal interests to explore post-secondary opportunities that are intrapreneurial. Students will demonstrate independent strategies to excel in an ever-growing and diverse work environment. When possible, professional guest speakers from major organizations and real-world projects will provide students with a hands-on experience!

FINE WOODWORKING AND TURNING (Semester--.5 Credit) This course is designed to allow the student to further expand their individuality and creative expression through advanced level projects in Fine Woodworking and Turning. Students will strengthen concepts of cabinets building and construction techniques with a higher level of detail and accuracy. This course also introduces wood turning lathes and incorporates a project that includes design, construction, electrical wiring and stained-glass design and construction. Emphasis is placed on learning comprehension, mathematics, safe practices and problem solving. Students are expected to work both in groups and individually. Prerequisite - Wood Technology I and Cabinetry and Construction

INTRODUCTION TO PROGRAMMING (Semester--.5 Credit) 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 manipulate data, use different applications to meet all your needs, and design your own functional computer programs through hands-on practical projects. In addition, students will explore various technological gadgets and apply coding concepts (i.e. UNITY, Spheros, Raspberry Pi, etc.) See how this course can make your school and employment life easier by strengthening your computer application skills!

MULTIMEDIA (Semester--. 5 Credit) 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.

PERSONAL FINANCE (Semester--.5 Credit) 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! **This course can be used to fulfill math core requirements toward graduation. All students in Grade 10 must take this course.**

## **BUSINESS & TECHNOLOGY DEPARTMENT, cont.**

WOOD TECHNOLOGY I (Semester--5 Credit) This course is designed to allow the student to expand his or her individuality and creative expression through Intermediate level projects in Woodworking. Students are introduced to basic safety and operation of: the jointer, planer, table saw, miter saw, router table, drill press, band saw, oscillating spindle sander, wood lathes, cordless drill, various hand tools and basic computer aided design (CADD) software. Emphasis is placed on learning comprehension, mathematics, safe practices and problem solving. Students are expected to work both in groups and individually.

## CAREER & TECHNICAL EDUCATION DEPARTMENT

*All CTE programs are available to 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup> grade students and held at Williamsport Area High School. Level 1 students interested will need to complete an application in the spring prior to the next school year.*

**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. **This course can be used to fulfill science core requirements toward graduation.**

**COMMERCIAL ART** 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.

**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 childcare and guidance. Students will gain hands-on experience with small children in a school-operated childcare 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.

## **CAREER & TECHNICAL EDUCATION DEPARTMENT, cont.**

**HEALTH OCCUPATIONS** This is a cluster program designed to prepare a person for employment in health occupations such as a Certified Nurse's Assistant. **This course can be used to fulfill science core requirements toward graduation.**

**HOMELAND SECURITY** An instructional program that prepares individuals to apply technical knowledge and skills required to perform entry-level duties in law enforcement, firefighting, EMT and other safety services. This program stresses the techniques, methods and procedures specific to the areas of criminal justice and fire protection especially in emergency and disaster situations. Physical development and self-confidence skills are emphasized due to the nature of the specific occupation(s). In addition to the application of mathematics, communication, science and physics, students receive training in social and psychological skills, map reading, vehicle and equipment operations, the judicial system, pre-hospital emergency medical care and appropriate emergency assessment, treatment and communication.

**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.

## ENGLISH DEPARTMENT

*All English courses will include career pathways-oriented writing instruction and assessment in these areas: reports and summaries, resumes and cover letters, research and analysis, and business/professional email, test, letter, and proposal formats.*

**ADVANCED ENGLISH 9** (Full Year—1 Credit, weighted 1.07) 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 Literature and Composition. In addition to mastering an intensive vocabulary program, 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.

**ADVANCED ENGLISH 10** (Full Year—1 Credit, weighted 1.07) Advanced English 10 is designed to not only build upon previously taught skills, but to continue to challenge and motivate capable students with more rigorous and sophisticated domain specific skills with the intent that students will complete a four-year advanced program culminating in Advanced Placement Literature and Composition. The course is designed to prepare students for the Literature Keystone Exam using a survey of literature around the world that encompasses a diverse selection of prose in the form of short stories, longer fiction, nonfiction in the form of expository, narrative, and persuasive rhetoric, as well as poetry and drama. In addition to the skills taught in the traditional English 10 course, students taking this course will be challenged to continue to refine their skills in analysis of reading, academic and domain specific vocabulary, and evidence-based writing by evaluating concepts around author choice and purpose to deepen their understanding of theme and value as it relates to literature and the real world.

Prerequisites - Advanced English 9 or teacher recommendation. A performance contract must be signed by a parent and student with the understanding that a summer reading assignment must be reviewed and approved prior to admission. If the student does not complete the required summer assignments, the student will be asked to leave the class.

**ADVANCED ENGLISH 11** (Full Year—1 Credit, weighted 1.07) Advanced English 11 is a year-long course that is designed for students who have previously taken Advanced English classes and intend to move forward in the Advanced Placement track, culminating in AP Literature in their senior year. The course will consist of the rigorous study of vocabulary as well as the continued in-depth analysis of various selections of prose in the form of short stories, fiction, nonfiction, poetry, and drama, including Shakespearean texts. Students taking this course will also be challenged to refine their writing skills through evidence-based writing and will examine literature through various critical literary lenses.

Prerequisites - It is strongly recommended that students have excelled in the Advanced English track from 9th and 10th grade. A performance contract must be signed by a parent and student with the understanding that a summer reading assignment and essay must be reviewed prior to admission. If the student does not complete the required summer assignments, the student will be asked to leave the class.

## ENGLISH DEPARTMENT, cont.

AP (ADVANCED PLACEMENT) ENGLISH LITERATURE AND COMPOSITION (Full Year—1 Credit, weighted 1.1) AP English Literature and Composition is an Advanced Placement course designed to expose students to literary works in the form of prose, poetry, and drama and will prepare them to extensively analyze and synthesize literature in essay form at the collegiate level. Students taking this course will be challenged to refine their skills in essay structure, critical thinking, understanding of meaning and value as it relates to literature and the real world, and academic and domain specific vocabulary, thus preparing them for the rigors and expectations in a literature-based college classroom. This is a content-driven course, therefore, students enrolled in this course are required to keep pace. Students are expected to take the AP Exam in May. THIS COURSE MAY ALSO QUALIFY FOR DUAL ENROLLMENT VIA LACKAWANNA COLLEGE.

Prerequisites: It is strongly recommended that students have excelled in the Advanced English track from 9-11 grade or produce a teacher recommendation letter. A performance contract must be signed by a parent and student with the understanding that a summer reading assignment and timed essay must be reviewed prior to admission. If the student does not complete the required summer assignments, the student will be asked to leave the class.

AMERICAN LITERATURE (Semester--.5 Credit) This course offers a rigorous exploration of American literature from early short stories to twentieth-century novels, emphasizing critical reading, analytical writing, and literary discussion. Students will engage in close reading of diverse texts—including short stories, poetry, essays, and the novel *The Great Gatsby*—to examine themes of identity, society, and the American experience. The course develops students' abilities to analyze literary devices, construct evidence-based arguments, and refine formal writing skills in alignment with PA Common Core Standards for Reading and Writing. Students will also explore historical, cultural, and social contexts to deepen comprehension and foster meaningful literary connections.

BRITISH LITERATURE (Semester--.5 Credit) This course provides an in-depth study of British literature from medieval to modern works, combining classic novels, short stories, poetry, and nonfiction. Students will analyze the development of literary forms, genres, and themes while cultivating their critical thinking and formal writing skills. Emphasis is placed on literary analysis, interpretation of authorial choices, and exploration of historical, cultural, and philosophical contexts. Through structured reading, writing, and discussion, students will strengthen their ability to craft evidence-based arguments and engage with complex texts, aligned with PA Common Core Standards for Reading and Writing.

BUSINESS WRITING & COMMUNICATIONS (Semester--.5 Credit) In today's personal and professional world, communication is one of the most vital skills to develop. Your effectiveness in communicating ideas, feelings, instructions, and thoughts are key to your success, especially in business. Business Communication is designed to introduce you to skills and practices that will help you communicate and develop communication strategy for yourself in business and/or for your business and your clients/stakeholders. In this class, students learn about how to write more effectively and use a clear and direct voice in business communications. Documents covered include resumes, business memos, proposals, and brochures as well as the use of email. This course will include writing reports and summaries requiring research and analysis of texts, websites, and other materials deemed necessary.

COMPOSITION (Semester--.5 Credit) This course is highly recommended not only as a college preparatory course, but as a course designed to sharpen writing skills for any future vocation. Objectives include improving clarity in reading comprehension and writing precision; understanding a writer's specific audience and how to construct one's writing to that audience; and to explain and/or persuade an audience. Activities include outlining, rough drafts, peer editing, and final drafts.

## ENGLISH DEPARTMENT, cont.

ENGLISH 9 (Full Year—1 Credit) English 9 will consist of material based on the Common Core Standards for 9<sup>th</sup> 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.

ENGLISH 10 (Full Year—1 Credit) English 10 is designed to build upon previously taught skills to prepare students for the Literature Keystone Exam using a survey of literature around the world that encompasses a diverse selection of prose in the form of short stories, longer fiction, nonfiction in the form of expository, narrative, and persuasive rhetoric, as well as poetry and drama. Students taking this course will be challenged to continue to develop and improve their skills in close reading and comprehension, concise writing using explicit evidence, research, analysis and critical thinking, understanding of theme and value as it relates to literature and the real world, and academic and domain specific vocabulary.

ENGLISH 11 (Full Year—1 Credit) English 11 places emphasis on World and American literature with content aligned with the Common Core Standards for 11<sup>th</sup> grade students. Students will use evidence from texts to support in-depth analysis, encourage reflection, and expand upon research. Particular emphasis is placed on mastering higher-level vocabulary and developing strong composition skills. Works studied include nonfiction texts along with novels, short stories, poems, and plays

SPEECH COMMUNICATIONS (Semester-- .5 Credit) The Speech Communications course is an elective available to all students in grades 10-12 who wish to improve upon their formal speaking and presentation skills. Students will craft and present a wide variety of speeches ranging from informative, persuasive, demonstrative, and impromptu speaking. This is an ideal course to take to master the basics of public speaking in order to allow one to develop a strong sense of confidence in speaking both in and out of the classroom.

YEARBOOK (Full Year—1 Credit) 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 course does not count towards required English credits for graduation.**

## 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.*

**BAKING & PASTRIES** (Semester--.5 Credit) This course is a great option for anyone taking their first culinary (foods) course, or for anyone interested in learning more about the art and science of preparing baked goods. Students will gain a solid foundation in the fundamentals of food preparation such as kitchen safety and sanitation, reading and following recipes, proper equipment use, and measurement techniques. Units may include, but not be limited to, Quick Breads, Yeast Breads, Pies and Pastries, and Cookies. Each unit includes an exploration of a nutritional topic. The content is similar to the Fundamental of Foods course of 2022-2023.

**CHILD DEVELOPMENT** (Semester--.5 Credit) Are you interested in working with children, have young children in your family, or are interested in being a parent one day? This may be the course for you! We will study the physical, social, emotional, and intellectual development of toddler and preschool children ages one through six years. This will include exploring major theories, research studies, and their applications. Various aspects of caring for and guiding children, such as nutrition, behavior, safety, health, and literacy, will be emphasized. Students will be introduced to career opportunities that involve working with children and related skills.

**FOOD, NUTRITION, AND WELLNESS** (Semester--.5 Credit) In a world with so many food options, not to mention constraints on time and budget, this course focuses on making healthy and well-informed food choices as students study and practice nutritious meal planning and preparation. After a basic review, students will expand and apply their nutritional knowledge and food preparation skills as they prepare recipes in units based on the main food groups recommended by MyPlate: Grains, Proteins, Fruits, Vegetables, and Dairy. Related topics include the role of media in food choice, eating on the go, meals on a budget, and other aspects of eating that impact well-being. The course will culminate with a performance-based meal planning assessment. The content is similar to the Meal Planning & Prep course of 2022-2023.

**GLOBAL CUISINES** (Semester--.5 Credit) In this course, students will use advanced culinary skills to prepare foods from various global regions. Participation in a previous foods course is recommended. After reviewing kitchen safety and sanitation, equipment, and techniques, students will prepare foods from countries such as Mexico, Italy, and China, with an emphasis on foods and techniques from each region. Students will analyze factors that influence cultural food choices and apply this as they study a region of their own choosing. Students will have the opportunity to prepare recipes from their chosen culture as time allows. The content is similar to the Regional Foods course of 2022-2023.

**INFANT DEVELOPMENT** (Semester--.5 Credit) Are you interested in learning about pregnancy, childbirth, infant development, and related careers? In this course, students will investigate human development from conception through twelve months. Areas of study will include topics such as the stages of pregnancy and prenatal development, and related concerns such as nutrition, birth defects, high risk pregnancies, and birthing options. Students will also explore the social, emotional, physical, and intellectual development that occurs during an infant's first year. Students will analyze issues in health and safety at this stage of development.

## **FAMILY AND CONSUMER SCIENCE DEPARTMENT, cont.**

TEXTILE ARTS (Semester--.5 Credit) Textile Arts is a hands-on, project-based course, intended to teach students how to construct textile materials in a way which emphasizes problem solving, critical thinking, creativity, and collaboration. Units will include Machine and Hand-Stitching, Textile Science, an Elastic Waist Project (applying basic skills to construct shorts, pants, or a skirt, from a pattern, tailored to fit), an Upcycling Project which will focus on sustainability as students apply basic sewing skills to make a new product out of an old one, and a Project of Choice which will use more advanced skills to create an item like a tote bag, stuffed animal, clothing item, or small quilt of the student's own choosing. Students are responsible for the cost and purchasing of supplies.

## FOREIGN LANGUAGE DEPARTMENT

FRENCH I (Full Year—1 Credit) 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 (Full Year—1 Credit) 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 (Full Year—1 Credit, weighted 1.07) 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.

FRENCH IV (Full Year—1 Credit, weighted 1.07) 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 (Full Year—1 Credit) This Spanish course is a Comprehensible Input Spanish class. In particular, we will use the TPRS (Teaching Proficiency through Reading and Storytelling) method of language instruction. Class time will be spent using Spanish--not using English to talk about Spanish—as much as possible. The primary focus will be on listening and reading, and the secondary focus will be on speaking and writing. Those skills will come naturally as you consume more and more Spanish by listening and reading. We will focus our class time on the acquisition of high frequency structures (the most frequently used words in a language). We will use these structures in class discussions, stories, and cultural explorations. You will be expected to recognize them when you read or hear them and be able to produce them in speech and writing. Before the year ends, we will read a novel together as a class.

SPANISH II (Full Year—1 Credit) This Spanish course is a Comprehensible Input Spanish class. In particular, we will use the TPRS (Teaching Proficiency through Reading and Storytelling) method of language instruction. Class time will be spent using Spanish--not using English to talk about Spanish—as much as possible. The primary focus will be on listening and reading, and the secondary focus will be on speaking and writing. We will focus our class time on the acquisition of high frequency structures (the most frequently used words in a language). We will use these structures in class discussions, stories, and cultural explorations. You will be expected to recognize them when you read or hear them and be able to produce them in speech and writing. We will read novels together as a class, as well as individually.

SPANISH III (Full Year—1 Credit, weighted 1.07) We continue improving our Spanish skills through Comprehensible Input, with an increased focus on class discussions, novels, cultural explorations and writing. 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.**

SPANISH IV (Full Year—1 Credit, weighted 1.07) We continue improving our Spanish skills through Comprehensible Input, with an increased focus on class discussions, novels, cultural explorations and writing. It is strongly advised that students enrolling in this course have an average of 85% or better in previous foreign language classes.

## MATHEMATICS DEPARTMENT

ALGEBRA I (Full Year—1 Credit) 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. This is the course aligned to the Algebra I Keystone exam content.

ALGEBRA II (Full Year—1 Credit) 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 (Full Year—1 Credit, weighted 1.07) This is the third course in the advanced 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 Algebra I and Geometry 9 Advanced. THIS COURSE MAY ALSO QUALIFY FOR DUAL ENROLLMENT VIA LACKAWANNA COLLEGE.

APPLIED ALGEBRA I (Full Year—1 Credit) 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 recommended for students who scored Basic or Below Basic on the PSSA exam.

APPLIED ALGEBRA II (Full Year—1 Credit) 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 recommended for students who scored Basic or Below Basic on the PSSA/Keystone exam.

APPLIED GEOMETRY (Full Year—1 Credit) 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 recommended for students who scored Basic or Below Basic on the PSSA/Keystone exam.

CALCULUS (Full Year—1 Credit, weighted 1.07) This course will cover four main calculus topics to include: limits, derivatives, indefinite integrals, and definite integrals. By solving problems analytically, graphically and numerically it is the goal to have students actively involved in understanding these calculus concepts and using these techniques to solve and support solutions to many problems. Students will be exposed to many interesting applications in fields of biology, physics, finance, economics, engineering, statistics and others. It is the hope that students will be amazed and delighted to see what a profusion of problems calculus solves and the variety of fields that use calculus to bring an understanding of our world around us. It is strongly advised that students enrolling in this course have an average of 85% or above in Advanced Trigonometry. THIS COURSE MAY ALSO QUALIFY FOR DUAL ENROLLMENT VIA LACKAWANNA COLLEGE.

COLLEGE PLACEMENT EXAM PREPARATION (Semester--0.5 Credit) This course is for seniors that have struggled to achieve a high score on the SAT and will most likely will be required to take an early college placement exam. It will highlight major topics from Algebra I and II, Geometry, Trigonometry, and various other topics that many colleges test students on before scheduling classes.

## MATHEMATICS DEPARTMENT, cont.

GEOMETRY (Full Year—1 Credit) 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. Prerequisite - Algebra I

GEOMETRY 9 ADVANCED (Full Year—1 Credit, weighted 1.07) 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 advanced courses.

PERSONAL MATHEMATICS (Semester--.5 Credit) This course will deal with different topics which are useful in the lives of many each day, such as reconciling bank statements, filing taxes, loans, and credit. There will be sections on measurements and volumes. There will also be estimating and costing of paint, drywall, flooring, etc. as they deal with home improvements. Expenses in car and home ownership will also be covered. It is meant to show how math is used in many walks of life and by everyone to some extent. Suggested for grades 11 & 12.

PROBABILITY AND STATISTICS (Semester--.5 Credit) 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 - Algebra I, Geometry, and Algebra II. Recommended for students in 11<sup>th</sup> and 12<sup>th</sup> grade. THIS COURSE MAY ALSO QUALIFY FOR DUAL ENROLLMENT VIA LACKAWANNA COLLEGE.

TRIGONOMETRY (Semester--.5 Credit) This course is for those students who have completed two years of algebra and one year of geometry. Topics that will be covered include the basic trig functions, graphing, polar coordinates, vectors, triangle solution and the applications of these topics.

TRIGONOMETRY ADVANCED (Full Year—1 Credit, weighted 1.07) 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, identities and proofs. Also included will be advanced topics such as exponential functions, graphing functions, logarithms, logic 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 advanced courses.

## MUSIC DEPARTMENT

“88 KEYS – 2 HANDS – NO PROBLEM!” PIANO LAB (Semester-- .5 Credit) 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 (Full Year—1 Credit) 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 (Full Year-- .5 Credit) Students have the option to participate in both band and chorus ensembles. In grades 9-12, band and chorus meet every day during first period. Students alternate their days between band and chorus so that equal time is shared between ensembles.

CHORUS I (Full Year—1 Credit) 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.

## **PHYSICAL EDUCATION/HEALTH EDUCATION DEPARTMENT**

**CURRENT ISSUES IN HEALTH** (Semester--.5 Credit) 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.

**FIT FOR LIFE** (Semester--.5 Credit) This course is designed for students who enjoy a variety of lifetime physical activities. Students will assess their personal fitness levels, set semester goals, and work toward those goals while participating in activities such as: yoga, aerobic activities, fitness walking, weight-training activities, Pickleball, KanJam, and personal fitness assessment.

**FUNDAMENTALS OF TEAM SPORTS** (Semester--.5 Credit) 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. This course is limited to students in 9<sup>th</sup> or 10<sup>th</sup> grade.

**NET SPORTS** (Semester--.5 Credit) 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.

**STRATEGIES AND TOURNAMENT PLAY** (Semester--.5 Credit) 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. This course is limited to students in 11<sup>th</sup> or 12<sup>th</sup> grade.

**WEIGHT TRAINING AND FITNESS** (Semester--.5 Credit) This course is designed for students who are interested in weight training and fitness activities with little or no experience.

## SCIENCE DEPARTMENT

AP (ADVANCED PLACEMENT) CHEMISTRY (Full Year—1.5 Credit, weighted 1.1) **This course is for students in 12<sup>th</sup> grade.** The AP Chemistry course provides students with an opportunity to deepen their understanding of chemistry principles to support future advanced course work in chemistry. Students will continue to develop critical thinking and reasoning skills and expand on topics learned in their first year of chemistry, such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. This 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; every other day will be utilized to facilitate the required laboratory work; the opposite days students will have a study hall. In addition, these students will prepare for the Advanced Placement Chemistry examination given in May. Failure to complete the mandatory summer assignments will result in dismissal from the AP course.

BIOLOGY (Full Year—1 Credit) All grade nine students will take 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. This is the course aligned to the Biology Keystone exam content and the Keystone Exam for Biology will be the final exam for the course.

CHEMISTRY (Full Year—1 Credit) All grade ten students will take Chemistry. Fundamental concepts and applications of chemistry are presented to students in order to foster a deeper understanding of the world and its phenomena surrounding 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. Basic algebra (ie. – solving for  $x$ ), and basic math skills are used frequently in this course.

ECOLOGY (Semester--0.5 Credit) This semester course will investigate the interaction between the biotic and abiotic aspects of our world. Some topics that will be covered are the Biosphere, Biomes, Ecosystems, Biotic relationships, Bioenergetics, Natural resources, and Environmental concerns (populations, pollution, climate, and disease). There will be labs, videos, projects and articles to enhance discussion and learning of these topics. Prerequisite: Successful completion of Biology. **THIS COURSE MAY ALSO QUALIFY FOR DUAL ENROLLMENT VIA LACKAWANNA COLLEGE.**

FORENSICS (Semester--0.5 Credit) 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.

(OSHA) OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (Full Year—1 Credit) **This course is for students in 11<sup>th</sup> or 12<sup>th</sup> grade.** One of the two core science options for grade eleven students to take, this course deals with occupational, hobby and home safety and health. Anyone should take this course, regardless of your future plans. It will cover hazard communications, bloodborne pathogens, ergonomics, noise exposure, radiation exposure, confined space entry, fall protection, asbestos, lead, mercury, lock out tag out, Personal protective equipment, indoor air quality, and other related topics.

ORGANIC CHEMISTRY (Semester--0.5 Credit) This course involves the study of carbon compounds and an understanding of their properties and reactions. Careers that rely on a background in organic chemistry

## SCIENCE DEPARTMENT, cont.

include biochemistry, biotechnology, environmental science, food science, materials science, medicine and pharmacology. Everyone encounters organic chemistry in their daily lives, from the molecules that make up all living things (like us), to the materials that we utilize as we go about our lives. The course builds on the basic chemical principles studied in earlier chemistry courses (Chemistry and/or AP Chemistry) and further develops the understanding of the fundamental relationship between chemical reactivity and structure. As a one semester introduction to organic chemistry, a review of fundamental chemical principles (orbitals, covalent bonding, polarity, intermolecular forces, VSEPR), essentials of organic nomenclature (naming), basic types of organic reactions, patterns of reaction mechanisms, and analytical techniques (melting point determination, gas chromatography, infrared spectroscopy) will be discussed. Students completing this course should leave well-prepared to enter an organic chemistry course in a college setting. Open to students in Junior or Senior year; prerequisites are completion of Chemistry *or* AP Chemistry.

PHYSICS- Electricity & Magnetism (Semester, weighted 1.07) This course deals with electricity and magnetism and the relationship between the two. It will cover static charges, current, simple and complex circuits, magnets, and induction of a current. This fast-paced and rigorous semester course will prepare a person for further study in science, engineering or the medical field. This course is limited to students in 11<sup>th</sup> or 12<sup>th</sup> grade.

PHYSICS (Full Year—1 Credit, weighted 1.07) **This course is for students in 11<sup>th</sup> or 12<sup>th</sup> grade.** One of the two core science options for grade eleven students to take, this fast paced, math-intensive course deals with motion and the causes of motion. It will cover measurement speed, acceleration, projectile motion, Newton's Laws, Energy, Momentum and rotational motion periodic motion and sound. This year long course will prepare a person for further study in science, engineering, or the medical field. This course is limited to students in 11<sup>th</sup> or 12<sup>th</sup> grade. The math level will include algebra 1 skills and introductory trigonometric functions, which will be taught during the course.

PHYSIOLOGY & HUMAN ANATOMY (Full Year—1 Credit) 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. **THIS COURSE MAY ALSO QUALIFY FOR DUAL ENROLLMENT CREDIT VIA LACKAWANNA COMMUNITY COLLEGE.**

## SOCIAL STUDIES DEPARTMENT

AP (ADVANCED PLACEMENT) US GOVERNMENT AND POLITICS (Full Year—1 Credit, weighted 1.1) **This course is for students in 11<sup>th</sup> and 12<sup>th</sup> grade.** Designed for 11<sup>th</sup> & 12<sup>th</sup> grade Social Science students committed to college-level rigor. The goal is that each student passes the AP exam in May. There is no guaranteed college credit for taking this course; however, passing the AP exam usually results in colleges granting equivalency credit towards a college degree. This swift paced full-year course examines the foundations of US democracy, government branch interaction, civil liberties and rights, political beliefs, and political participation. A summer assignment is required to be completed by the first day of class. Failure to complete the mandatory summer assignments may result in dismissal from the AP course. Please recognize this course is demanding for students. THIS COURSE MAY ALSO QUALIFY FOR DUAL ENROLLMENT CREDIT VIA LACKAWANNA COMMUNITY COLLEGE.

AP WORLD HISTORY: MODERN (Full Year—1 Credit, weighted 1.1) **This course is for students in 11<sup>th</sup> and 12<sup>th</sup> grade.** AP (Advanced Placement) World History: Modern is a collegiate level, year-long course. The AP World History: Modern course will begin in 1200 CE. Requirements currently identify that students will begin the course with a study of the civilizations in Africa, the Americas, and Asia that are foundational to the modern era. Students are expected to participate in class discussions, complete individual assignments, and will have one group project at the end of the year. AP World History will rely heavily on college level texts, primary source documents, and outside readings. Students will prepare for and take the AP World History Exam given in May. The student is financially responsible for the AP Exam. It is strongly recommended that students enrolling in this class have an average of 90% or better in previous history courses. There will be required summer assignments due throughout the summer and a chapter test on the first day of school. Failure to complete the summer assignments will result in dismissal from AP World History: Modern.

Prerequisites: Summer assignments; 85% or better in previous AP; World Cultures and Political and Physical Geography recommended but not required.

AMERICAN HISTORY (Full Year—1 Credit) This course focuses on the development of student knowledge pertaining to their country's history, along with the civic expectations of citizens in the United States of America. American history from Andrew Jackson's presidency until WWII will be examined. Our focus will be to identify, understand, and describe how the cultural, economic, and governmental events of the past impact us today.

AMERICAN HISTORY II (Full Year—1 Credit) Some call the 20<sup>th</sup> Century “America’s Century.” The United States emerged as the dominant world power at the end of World War 2. Students will examine the social, political, economic, and cultural events that the United States influenced and experienced from the end of WW2 in 1945 to the 9/11 attacks in 2001. Evaluations will consist of projects, written arguments, reflective writings, and traditional quizzes and exams.

POLITICAL & PHYSICAL GEOGRAPHY (Semester--.5 Credit) This semester course will focus on maps. Students will locate and label political boundaries and match the capital(s) to it corresponding state. Students will also locate and label physical features of the earth and answer guided reading questions about the various regions on the earth. Political and Physical Geography students will be expected to quiz on maps on a regular, WEEKLY basis. Students in grades 11 and 12 are eligible for this course.

PSYCHOLOGY (Semester--.5 Credit) **This course is for students in 11<sup>th</sup> or 12<sup>th</sup> grade.** This course introduces students to the foundations of psychology, focused on the study of the individual mind and

## **SOCIAL STUDIES DEPARTMENT, cont.**

behavior. The course begins with the history of the development of psychology as a science through modern approaches to addressing psychological disorders. Sample topics include methods and ethics of research, basic biological foundations, lifespan development, psychological disorders and treatments, cognition and memory, and sleep and dreams. Evaluations will consist of projects, written arguments, reflective writings, and traditional exams. THIS COURSE MAY ALSO QUALIFY FOR DUAL ENROLLMENT CREDIT VIA LACKAWANNA COMMUNITY COLLEGE.

**SOCIOLOGY** (Semester--5 Credit) **This course is for students in 11<sup>th</sup> or 12<sup>th</sup> grade.** Sociology is the study of groups within and across societies. Students examine topics such as: social behaviors and social expectations; institutions such as the family and religion; subcultures such as the Amish and countercultures such as 1960s youth movements; collective behavior such as fads and mass hysteria; and social change and social deviance. Students will routinely examine current events related to sociological topics. Evaluations will consist of projects, written arguments, reflective writings, and traditional exams. THIS COURSE MAY ALSO QUALIFY FOR DUAL ENROLLMENT CREDIT VIA LACKAWANNA COMMUNITY COLLEGE.

**WORLD CULTURES** (Full Year—1 Credit) World Cultures examines on a broad basis, both the historical and current world today. Some topics of study include but are not limited to: the global village (of 100 people), Culture, the Columbian Exchange, the historical process of development and major tenants of the five recognized global religions, Sushi-Tea-and Origami, *Invictus*, Genocide, and a look at the subculture of the Amish. Anticipated projects are on Winter Holidays, Cultural Body Modifications, and a culminating end of the course project. There is an attempt to pair food with appropriate units and projects. Units of study will be conducted through lecture, notes, visual aids, group work, projects, supplemental reading assignments, and other methods to enhance the learning experience. Traditional assessments will be given at the end of each unit and a Final Exam at the end of the course.

## Educational Opportunities

### Advanced Placement (AP)

These courses mimic the rigor of college coursework. They are taught by our teachers and students can pay to take the exam in May. If a student scores a 3 or higher on the exam, some colleges will take it as credit.

### Career and Technical Education (CTE)

The 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 successfully complete a minimum of 6 credits at the end of their 9<sup>th</sup> grade year, as well as other requirements (see student handbook). CTE students spend four or five periods a day at South, taking required academic subjects, and two or three periods each day in the CTE program of their choice. CTE courses are located at Williamsport Area High School (transportation is provided).

### Commonwealth Early Start Program

Our school district has an agreement with Commonwealth University that allows students to take online college courses. Students earn high school credit as well as college credit. Counselor approval is needed for all courses. An online application can be found at <https://www.commonwealthu.edu/early-college>. Please inform your school counselor if you decide to apply as course registration begins months before the semester starts. Cost is per credit at the expense of the student.

### Lackawanna College Pre-College Program

Pre-College Partnership allows students to take classes with Lackawanna College at a reduced rate. Students can participate by traveling to a Lackawanna College location, taking classes online, or participating in concurrent courses at the high school. Please see the counselor for a list of approved classes. Cost is per credit at the expense of the student.