

# West Scranton High School

## Course Catalog 2008-2009

- [DEPARTMENT REQUIRED COURSES](#)
- [DEPARTMENT ELECTIVE COURSES](#)
- [STUDIES DEPARTMENT REQUIRED COURSES](#)
- [DEPARTMENT REQUIRED COURSES](#)
- [DEPARTMENT REQUIRED COURSES](#)
- [DEPARTMENT ELECTIVES](#)
- [AND PHYSICAL EDUCATION COURSES](#)
- [ELECTIVES](#)
- [DEPARTMENT ELECTIVES](#)
- [ARTS ELECTIVES](#)
- [MUSIC COURSES](#)
- [LANGUAGE ELECTIVES](#)
- [AND CONSUMER SCIENCE ELECTIVES](#)
- [ARTS ELECTIVES](#)
- [ELECTIVES](#)



## Table of Contents

### ENGLISH

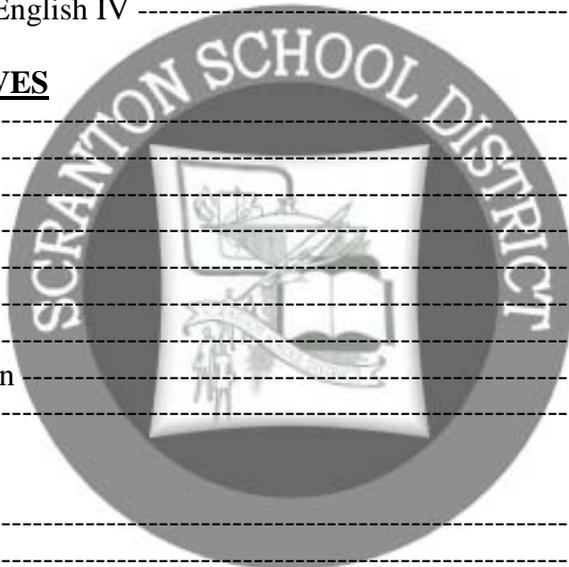
English I-----	11
English I Honors -----	11
English II-----	11
English II Honors -----	11
English III-----	12
English III Honors -----	12
English IV-----	12
English IV Honors -----	12
ESL Beginner-----	12
ESL Intermediate -----	12
ESL Advanced -----	12
Advanced Placement English IV -----	13

### ENGLISH ELECTIVES

Speech and Drama I -----	14
Speech and Drama II -----	14
Speech and Drama III -----	14
Speech and Drama IV -----	14
Reading Study Skills -----	15
Journalism-----	15
Creative Writing -----	15
Advanced Composition -----	15
SAT Preparation -----	15

### SOCIAL STUDIES

World History -----	16
World History Honors-----	16
American History I -----	16
American History I Honors-----	16
American History II -----	17
American History II Honors-----	17
Advanced Placement United States History -----	17
American Government/Law -----	17
American Government/Law Honors -----	17
Law and the Citizen -----	17
Advanced Placement European History -----	18
Sociology/Psychology-----	18
Cold War to the War on Terror -----	18
Cold War to the War on Terror Honors -----	18
World Geography/Affairs -----	18



**MATHEMATICS**

Algebra I ----- 19  
Applied Algebra I----- 19  
Algebra I Honors----- 19  
Geometry----- 20  
Applied Geometry ----- 20  
Geometry Honors ----- 20  
Algebra II ----- 20  
Applied Algebra II----- 20  
Trigonometry ----- 20  
Algebra II/Trigonometry----- 20  
Algebra II/Trigonometry Honors----- 21  
Elementary Analysis----- 21  
Elementary Analysis Honors ----- 21  
Calculus Honors----- 21  
Advanced Placement Calculus----- 21  
Statistics ----- 21  
Business Math ----- 22  
Survey of Math with Applications ----- 22  
Consumer Related Math ----- 22  
PSSA Math ----- 22

**SCIENCE**

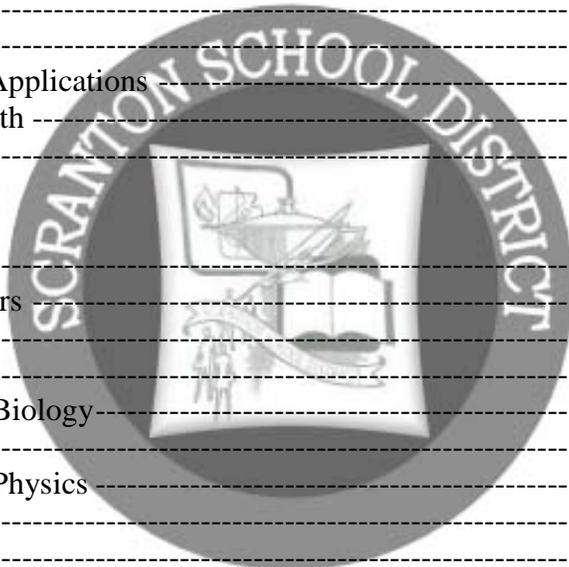
General Science ----- 23  
General Science Honors ----- 23  
Biology I ----- 23  
Biology I Honors----- 23  
Advanced Placement Biology----- 23  
Physics----- 24  
Advanced Placement Physics ----- 24  
Chemistry ----- 24  
Chemistry 10 Honors----- 24  
Advanced Placement Chemistry----- 24  
Physical Science ----- 24

**SCIENCE ELECTIVES**

Human Physiology Honors ----- 25  
Environmental Studies ----- 25  
Earth and Space Science ----- 25

**HEALTH/SAFETY AND PHYSICAL EDUCATION**

Physical Education I Grade 9 ----- 26  
Health Education I/II Grade 9----- 26  
Physical Education II Grade 10----- 26  
Health Education III/IV Grade 10----- 27  
Safety Education Grade 10 ----- 27



Physical Education III Grade 11	27
Physical Education IV Grade 12	27
Adaptive Physical Education	27

**COMPUTER ELECTIVES**

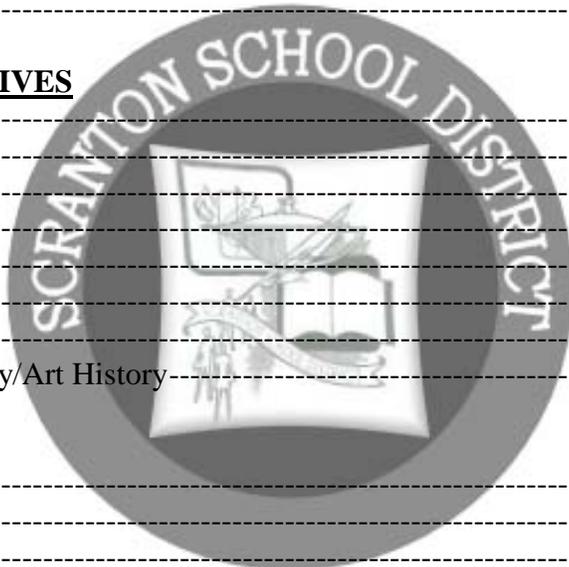
Computer Skills I	28
Computer Skills II	28
Computer Skills III	28

**BUSINESS DEPARTMENT ELECTIVES**

Introduction to Business	29
Co-Op Career Skills	29
Co-Op Work Experience	29
Business Academic Computers	29
Principal Business Management	29
Accounting I	30
Accounting II	30

**FINE ARTS ELECTIVES**

Art I	31
Art II	31
Art Major II	31
Art III	31
Art Major III	31
Art IV	32
Art Major IV	32
Advanced Photography/Art History	32



**MUSIC**

Beginning Chorus	33
Intermediate Chorus	34
Advanced Chorus	34
Beginning Band	34
Intermediate Band	34
Advanced Band	34
Beginning Strings	34
Intermediate Strings	34
Advanced Strings	34
Computerized Music Laboratory	34

**FOREIGN LANGUAGE**

Latin I	35
Latin II	35
Latin III	35
Latin IV	35
Spanish I	36

Spanish II	36
Spanish III	36
Spanish IV	36
German I	36
German II	36
German III	37
German IV	37
French I	37
French II	37
French III	38
French IV	38

**FAMILY AND CONSUMER SCIENCE**

Family and Consumer Science Rotation	39
Foods II	39
Foods III	39
Foods IV	39
Clothing Design and Construction II	40
Clothing Design and Construction III	40
Clothing Design and Construction IV	40
Interior Decorating	40
Family Living	40

**INDUSTRIAL ARTS**

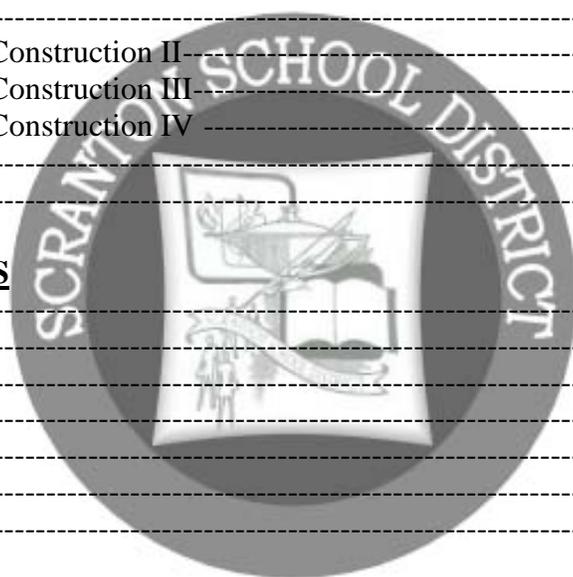
Shop I Rotation	41
Wood Shop II	41
Wood Shop III	41
Wood Shop IV	41
Drafting II	42
Drafting III	42
Drafting IV	42

**LUNCH**

Lunch	43
-------	----

**VOCATIONAL ELECTIVES**

Automotive Technology	44
Building Maintenance Technology	44
Carpentry	44
Collision Repair Technology	44
Commercial Art and Design	45
Computer Information Technology	45
Computer Maintenance Technology	45
Cosmetology	45
Culinary Arts	45
Diesel Equipment Technology	45



Drafting and Design Technology-----	45
Early Childhood and Development-----	45
Electronics -----	46
Electrical Construction and Maintenance -----	46
Graphic and Printing Communications Technology-----	46
Health Occupations Technology-----	46
Horticulture and Landscaping-----	46
Industrial Machine Technology-----	46
Plumbing and Heating Technology -----	46
Protective Services Occupation-----	47
Trowel Trade -----	47
Welding Technology -----	47



## Introduction

By developing a course catalog at West Scranton High School, the administration and staff may better communicate with parents, students, and the whole community.

The course catalog will be organized according to the following topics:

- Cover Page
- Table of Contents
- Introduction
- Mission Statement
- Middle State Accreditation
- Honors/AP Policy
- Curriculum Information
- Graduation Requirements/Grading System
- Course Descriptions by Department-English (required and elective courses), Social Studies, Mathematics, Science (required and elective courses), Health/Safety and Physical Education, Computer Electives, Business Electives, Fine Arts Electives, Music Electives, Foreign Language, Family/Consumer Science, Industrial Arts, Lunch, and Vocational Electives.

Students are about to begin the important process of selecting classes for their freshman year in high school. Students are encouraged to think carefully about the choices they make in selecting their courses, as the classes they select may affect their future opportunities, as well as their overall satisfaction with school. This document is prepared to assist students in making wise decisions concerning programs and course choices during the secondary years. To support this decision making process, the West Scranton High School administration and faculty have assembled information including a description of each course in our secondary program.

The goal of the West Scranton High School faculty and staff is to prepare students as thoroughly as possible for their next step in life, whether that step is admission to college, immediate entrance into the job market or another path. To achieve this goal, parents and students are urged to review carefully the information contained in this catalog and to work closely with school counselors to develop four-year educational plans.

Our course catalog will contain most of the information students need to know about our class offerings and educational opportunities. Course listings will be under a particular department throughout the catalog. Prerequisites are listed to ensure students have the appropriate level of skills when they enter the class. Classes with prerequisites are generally part of a sequence of courses. It is important to review the prerequisites

because students who do not have the necessary qualifications will not be permitted to enroll in the course.

With careful and thoughtful planning and strong communication, students will be well on their way to a successful career at West Scranton High School with the aid of this course catalog.

### **Mission Statement**

West Scranton High School, a comprehensive neighborhood school, is comprised of a close-knit group of students, parents, teachers, support staff, administrators and community members. Our mission is to provide a safe, equitable and motivating environment for all students.

By offering a dynamic and evolving curriculum, we encourage an appreciation of education, a respect for individual differences and a realization of one's potential. Our students will graduate with life long learning skills and the intellectual competency to take their place in an ever changing technological global society.

#### **We believe that:**

1. Education is the shared responsibility of the entire school community.
2. Diversity needs to be recognized, encouraged and celebrated.
3. Students learn at different rates and in different ways.
4. Critical thinking and life long learning skills are keys to success in a global society.
5. Excellence is attainable
6. Participation in extra-curricular activities enhances student development.
7. Learning should be appropriately challenging and transferable to real life situations.
8. Respect is a mutual responsibility.
9. Strong public schools are the foundation of our society.

### **Middle States Evaluation Accreditation for Growth**

West Scranton High School is accredited by the Pennsylvania Department of Education and the Middle State Association of Colleges and Schools.

### **Honors/AP Policy**

It is the policy of the Scranton School District that no student may drop an AP/Honors course once he/she has selected it. Due to the limited number of students invited to participate in upper level classes, scheduling of times and personnel require your (parental) agreement to remain in the course. **There will be no drop period once the fall semester begins.**

Students are guaranteed a minimum grade of 88% for the first quarter-**except in most unusual circumstances**. After the first quarter, the student's grade will be marked as earned with an Honors/AP curve applied. If your son/daughter cannot maintain an average grade of 88% in the course, the teacher has the authority to place your son/daughter into a regular section of the course. Such transfers will be made at the end of the first quarter and with the recommendation of the teacher and guidance counselor. Your signature indicates your acceptance of the terms set forth above.

### **Class Rank (Weighted)**

All subjects evaluated with numerical grades are included for ranking purpose. Honors classes (5%) and advanced placement classes (8%) are weighted in determining class rank.

### **Curriculum Information**

West Scranton High School recognizes individual differences in its students. In an effort to increase student interest and success, ability and achievement three course tracks have been developed within our curriculum for students. Students may select from one of the following programs:

**Academic Course**-This course is designed to prepare a student for post secondary education, particularly for college.

**Business Course**-This course prepares students to become proficient in the world of business.

**Vocational Course**-This course attempts to provide students with a variety of several different vocational areas: carpentry, machine work, electricity, power, drafting, or home economics.

Depending on a student's ability courses may be selected from one of the following programs:

**Advanced Placement (AP)**-Courses are offered in U.S. History, Biology, Chemistry, English Composition and Literature, European History, and Calculus. These courses are designed to prepare students for the AP examinations and accelerated college courses.

**Honors (H)**-Student selection for this program is based upon ability, standardized test scores, past grades, and teacher evaluations of creativity, interest and initiative.

**Regular**-This program serves students with diverse academic skills and goals.

**Learning Support**-This program serves students that have an IEP and will follow the regular curriculum with adapted course work. The adapted course work will meet the need of the student's learning difficulties.

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**Graduation Requirements-23 credits**

<b>English</b>	<b>4</b>
<b>Social Studies</b>	<b>4</b>
<b>Mathematics</b>	<b>4</b>
<b>Science (including Biology)</b>	<b>3</b>
<b>Arts/Humanities</b>	<b>2</b>
<b>Health/Safety</b>	<b>1</b>
<b>Physical Education</b>	<b>1</b>
<b>Elective Courses</b>	<b>4</b>
<b>Total Credits From Above</b>	<b>23</b>

**Grading System**

**Range of Grades: 10 to 100**

**Minimum Passing Grade: 70**

<b>A+</b>	<b>98 to 100</b>
<b>A</b>	<b>94 to 97</b>
<b>A-</b>	<b>90 to 93</b>
<b>B</b>	<b>86 to 89</b>
<b>B-</b>	<b>82 to 85</b>
<b>C</b>	<b>78 to 81</b>
<b>C-</b>	<b>74 to 77</b>
<b>D</b>	<b>70 to 73</b>
<b>F</b>	<b>Below 70 (Failing)</b>

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## **English Department Required Courses**

### **Four credits required for graduation**

- [ENGLISH I](#)
- [ENGLISH I HONORS](#)
- [ENGLISH II](#)
- [ENGLISH II HONORS](#)
- [ENGLISH III](#)
- [ENGLISH III HONORS](#)
- [ENGLISH IV](#)
- [ENGLISH IV HONORS](#)
- [ESL BEGINNER](#)
- [ESL INTERMEDIATE](#)
- [ESL ADVANCED](#)
- [ADVANCED PLACEMENT ENGLISH 4](#)

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### **8110/8111/1911 - English I**

This course is the first year required in Grade 9. English 1 has a three-fold emphasis: acquisition of the foundations in grammar, acquisition of the mechanics of writing, and an appreciation of literature. As an adjunct, effective communication and critical analysis are stressed.

### **8113 - English I Honors**

This course is fundamentally the same as English 1. However, it is distinguished by a more academic approach. The hallmark of this placement track is the intensity of the reading, writing, and speaking assignments.

**Prerequisites:** *The student meets general criteria for placement in an honors level class.*

### **8120/8121/1912 - English II**

English 2 is designed to develop the student's abilities as a reader and writer. Through the study of novels, drama and poetry, the student demonstrates an understanding and interpretation of literary works and learns to become a critic of literature. Writing is an integral part of the English 2 curriculum and focuses on expository, analytical and argumentative essays.

**Prerequisites:** *English I*

### **8123 - English II Honors**

English 2 Honors is designed to develop and enhance the student's abilities as a reader and writer. Through an in-depth study of novels, drama and poetry, the student demonstrates a greater understanding and interpretation of literary works and learns to become a critic of literature. Writing is an integral part of the English 2 Honors curriculum and focuses on expository, analytical and argumentative essays.

**Prerequisites:** *The student meets general criteria for placement in an honors level class.*

**8130/8131/2010 - English III**

English 3 offers studies in American literature, composition, and oral communication. The objectives of the course include fostering knowledge, understanding and appreciation of our heritage in American literature and sharpen student perception of communication skills.

**Prerequisites:** *English I and English II.*

**8133 - English III Honors**

This course is fundamentally the same as English 1. However, it is distinguished by a more academic approach. The hallmark of this placement track is the intensity of the reading, writing, and speaking assignments.

**Prerequisites:** *The student meets general criteria for placement in an honors level class.*

**8140/8141/2012 - English IV**

The emphasis of this course is the spectrum of British literature and a general review of composition, grammar usage, and vocabulary.

**Prerequisites:** *English I, English II, and English III.*

**8143 - English IV Honors**

This course is fundamentally the same as English 4. However, it is distinguished by a more academic approach. The hallmark of this placement track is the intensity of the reading, writing, and speaking assignments.

**Prerequisites:** *The student meets general criteria for placement in an honors level class.*

**8601 - ESL Beginner**

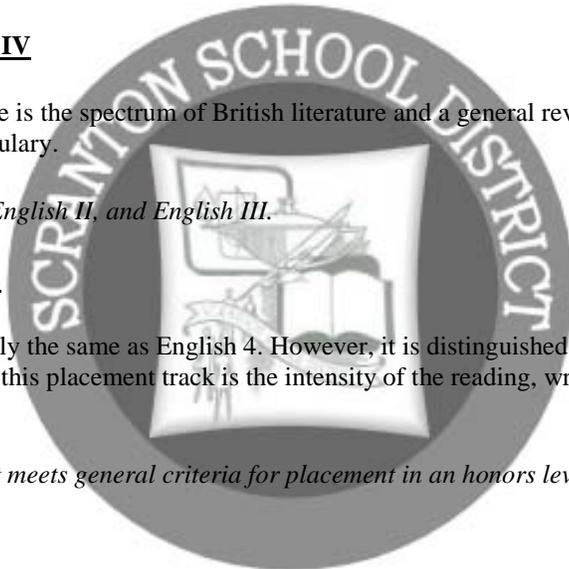
This course is for students whose primary language is something other than English. Students who enter the district who are not proficient in the English language must take this course. Students in this class will learn the basics of the English language.

**8603 - ESL Intermediate**

Students in this course are working on becoming proficient in the English language. Focus in this course is on Practical English skills such as note taking, job searching, letter and resume writing. Students in this course will also be working on perfecting their grammar skills. Students will practice sentence and paragraph writing. Students will be placed in the Intermediate class based on test results and past performance.

**Prerequisites:** *Pretest placement or ESL Beginner.*

**8605 - ESL Advanced**



The ESL Advanced course is for students who are working on becoming proficient in English, but are just not quite there yet. Practice on parts of speech, types of sentences, critical thinking skills, and good writing skills are all a part of this class. American Literature is also part of this course.

**Prerequisites:** *Pretest placement or ESL Beginner and ESL Intermediate.*

#### **8144 - Advanced Placement English IV**

This is an in-depth study of classic works of literature ranging from The Odyssey to modern works. Perception of literary styles and genre are stressed and demonstrated through extensive writing assignments. Students are given the opportunity to prepare for the College Board Advanced Placement Examination for college credit. **Students who select this program are expected to take this exam.** This course is offered to students based upon standardized test scores, intelligence test results, and teacher recommendations. Students who accept the invitation into the advanced placement program are expected to remain in the program until completion.

**Prerequisites:** *The student meets general criteria for placement in an honors level class and recommendation from English III Honors teacher.*



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## **English Department Elective Courses**

- [SPEECH AND DRAMA I](#)
- [SPEECH AND DRAMA II](#)
- [SPEECH AND DRAMA III](#)
- [SPEECH AND DRAMA IV](#)
- [READING STUDY SKILLS](#)
- [JOURNALISM](#)
- [CREATIVE WRITING](#)
- [ADVANCED COMPOSITION](#)
- [SAT VERBAL PREPARATION](#)

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### **8310 - Speech and Drama I**

This course prepares students in public speaking and serves as an introduction to the theater. The activity based curriculum focuses on the elements of communication as well as purposes and types of public speaking including demonstration, persuasive and speeches for special purposes. The second half of this course introduces the history of the theater. Each week the art of improvisation is developed. Students attend live theatrical performances to develop critiquing skills.

### **8320 - Speech and Drama II**

This course concentrates on the eight categories of speech and debate, from oral interpretation to Lincoln-Douglas debate. The second half of the course introduces the art of children's theater. Students rehearse and perform a theatrical production for area elementary schools.

**Prerequisites:** *Speech and Drama I*

### **8330 - Speech and Drama III**

Students who select this course will be introduced to technical theater including lighting, set design, make-up application, costumes and set painting techniques. Methods of acting are studied through scene work. Students are required to commit to the spring play utilizing their technical knowledge.

**Prerequisites:** *Speech and Drama I and Speech and Drama II*

### **8340 - Speech and Drama IV**

This course prepares students who wish to enter the field of performance or communications upon graduation. Methods of acting are continued. Students perform one act plays. Speech and Drama IV focuses on audition techniques, monologues, playwrights and associations with professional theater companies.

**Prerequisites:** *Speech and Drama I, Speech and Drama II, and Speech and Drama III*

### **8311 - Reading Study Skills**

The Reading Study Skills course is a corrective reading program used to complete a core program that uses groundbreaking direct instruction methods to help students master the essential decoding and comprehension skills they need not only to read well, but to learn well. Corrective Reading can address a wide range of reading problems. Students can work on decoding skills, comprehension skills, or both. Placement tests included with the program will determine where each individual student should begin. The Reading Study Skills course is intended for the students that are in the learning support program.

### **8400 - Journalism**

This course is designed to introduce the student to journalism as a career. News writing, reporting, and the responsibility of honest, accurate, and effective journalistic writing are stressed. Practical application of theory is presented through actual student publications including student newspapers and a literary magazine.

**Prerequisites:** *Grade 10 or higher.*

### **8500 - Creative Writing**

The Creative Writing Course will review and reinforce basic elements of composition while emphasizing divergent thinking skills as a motivating force for composition. Standards of process writing theory will form the philosophical basis for the course.

**Prerequisites:** *Grades 10 or higher.*

### **8550 - Advanced Composition**

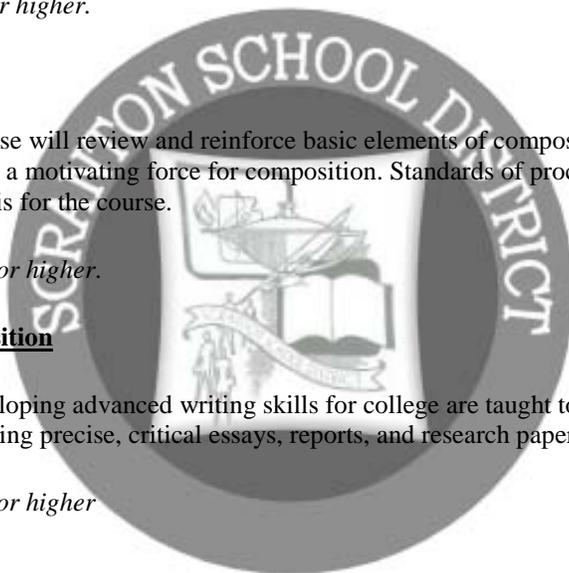
Students interested in developing advanced writing skills for college are taught to apply writing skills in various applications including precise, critical essays, reports, and research papers.

**Prerequisites:** *Grades 11 or higher*

### **8800 - SAT Preparation**

This course focuses on preparation for the Preliminary Scholastic Achievement Tests (PSAT) and the Scholastic Achievement Tests (SAT). Guided study using practice tests and test taking skill development are taught to prepare students who intend to enter college upon graduation.

**Prerequisites:** *Grade 11 or higher*



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## **Social Studies Department Required Courses**

### **Four courses required for graduation.**

- [WORLD HISTORY](#)
- [WORLD HISTORY HONORS](#)
- [AMERICAN HISTORY I](#)
- [AMERICAN HISTORY I HONORS](#)
- [AMERICAN HISTORY II](#)
- [AMERICAN HISTORY II HONORS](#)
- [ADVANCED PLACEMENT UNITED STATES HISTORY](#)
- [AMERICAN GOVERNMENT/LAW](#)
- [AMERICAN GOVERNMENT /LAW HONORS](#)
- [LAW AND THE CITIZEN](#)
- [ADVANCED PLACEMENT EUROPEAN HISTORY](#)
- [SOCIOLOGY / PSYCHOLOGY](#)
- [COLD WAR TO THE WAR ON TERROR](#)
- [COLD WAR TO THE WAR ON TERROR HONORS](#)
- [WORLD GEOGRAPHY/AFFAIRS](#)

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### **9100/9101/2000 - World History**

This course offers a presentation of the world's major culture areas focusing on Europe and Russia from the Renaissance to the current day. The objective of the course is to develop an understanding of Western civilization through an examination of customs, religion, geography, art, literature, governments, and history of the regions.

### **9103 - World History Honors**

World History Honors focuses on a challenging in-depth study of the world's major culture areas focusing on Europe and Russia from the Renaissance to the current day. The objective of the course is to develop an understanding of Western civilization through an examination of customs, religion, geography, art, literature, governments, and history of the regions. This course differs from the regular World History curriculum in the scope and depth accorded to each topic and in the nature of student assessment and assigned special projects.

### **9200/9201 - American History I**

American History I focuses on the time period from the exploration of the Western Hemisphere to the reconstruction of the United States after the Civil War. Major emphasis is placed on the formation of the United States and its early history. Topics covered include the American Revolution, the Constitution, slavery and the Civil War.

### **9203 - American History I Honors**

American History I Honors focuses on a challenging in-depth study of the time period from the exploration of the Western Hemisphere to the reconstruction of the United States after the Civil War.

Major emphasis is placed on the formation of the United States and its early history. Topics covered include the American Revolution, the Constitution, slavery and the Civil War. This course differs from the regular American History I curriculum in the scope and depth accorded to each topic and in the nature of student assessment.

**Prerequisites:** *The student meets general criteria for placement in an honors level class.*

### **9300/9301/2004 - American History II**

American History II highlights major events from 1865 to present. Major emphasis is given to the political, social, economic, cultural and diplomatic occurrences from 1865 to the present.

### **9303 - American History II Honors**

American History II Honors is an intensive, in depth course highlighting major events from the end of the civil war through the end of the Vietnam War. This course differs from the regular American History II curriculum in the scope and depth accorded to each topic and in the nature of student assessment.

**Prerequisites:** *American History Honors I and the student meets general criteria for placement in an honors level class.*

### **9304 - Advanced Placement United States History**

Advanced Placement US History covers the colonial period to the present time. Students learn historiography, the use of primary and secondary historical sources, research techniques, documentary analysis and discussion techniques. Students are familiarized with study techniques necessary for success on the College Board Advanced Placement US History test.

**Prerequisites:** *American History I Honors with teacher recommendation.*

### **9400 - American Government/Law**

American Government/Law is the study of the nature and the organization of the United States political system and a comprehensive investigation into the workings of our democratic system of government with an emphasis on the Constitution and federal law.

### **9433 - American Government/Law Honors**

American Government/Law Honors is an in-depth study of the nature and the organization of the United States political system and the system of laws which protects it. This course studies constitutional law, Supreme Court decisions at the federal, state and local levels and the constitutionality of these laws. Research, extensive readings and participation in class discussions are emphasized. Current events at the federal, state and local levels are featured.

**Prerequisites:** *American History I and II Honors. The student meets general criteria for placement in an honors level class.*

### **9450 - Law and the Citizen**

This is a course in the description and practical application of criminal and civil law and the effect upon the ordinary citizen in a democracy. The course features readings and interpretation of legal situations which are encountered in everyday life, e.g.-government structure contracts, rental leases, consumer credit, taxes, and family law.

**Prerequisites:** *Grade 12*

### **9504 - Advanced Placement European History**

Advanced Placement European History requires extensive reading and research. The scope of this course covers European History from the High Middle Ages to the present. Content includes the diplomatic, artistic, political, economic, cultural and military trends of Europe during these periods. Emphasis is placed on the use of primary and secondary historical resources in completing research and writing assignments. Document-based questions and essays are utilized to prepare students for success on the College Board Advanced Placement US History test.

**Prerequisites:** *Previous honors and/or AP level history courses with teacher recommendation.*

### **9600 - Sociology/Psychology**

Sociology explores the nature and characteristics of human societies, social life and cultural differences. This course investigates the structure, functions and changes in human groups.

Psychology is the scientific study of the principles of human behavior and mental processes. This course studies the fields of psychology, the study of the brain, major psychological research and major psychological theories.

### **9800 - Cold War to the War on Terror**

This class covers the important events that have shaped the last fifty years. It will cover the information from the end of the World War II up through the present day War on Terror. Important topics discussed include events such as Kennedy's presidency and assassination, Vietnam, the Gulf War and the history of terrorism through the September 11<sup>th</sup> terrorist attacks. This class is intended for anyone with interest in history and also those that are thinking or pursuing history in some facet in the future.

**Prerequisites:** *Grade 12*

### **9803 - Cold War to the War on Terror Honors**

This is a college level class that is an in-depth analysis of the events that have shaped the last fifty years. It will cover the information from the end of the World War II up through the present day War on Terror. Important topics discussed include events such as Kennedy's presidency and assassination, Vietnam, the Gulf War and the history of terrorism through the September 11<sup>th</sup> terrorist attacks. This class is designed for motivated honors students. It also provides a valuable companion to students that are enrolled in 11<sup>th</sup> grade AP US History class.

**Prerequisites:** *World History Honors and American History I Honors.*

### **9700/9701/2006 - World Geography/Affairs**

This course is designed to show where people, places, and things are located, and how they are related to each other over time. The object of the course is to develop an understanding of geography, and how it has played a major role in the movement and settlement of people on earth.

**Prerequisites:** *Grade 12*

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## **Mathematics Department Required Courses**

### **Four courses required for graduation**

- [ALGEBRA I](#)
- [APPLIED ALGEBRA I](#)
- [ALGEBRA I HONORS](#)
- [GEOMETRY](#)
- [APPLIED GEOMETRY](#)
- [HONORS GEOMETRY](#)
- [ALGEBRA II](#)
- [APPLIED ALGEBRA II](#)
- [TRIGONOMETRY](#)
- [ALGEBRA II / TRIGONOMETRY](#)
- [ALGEBRA II / TRIGONOMETRY HONORS](#)
- [ELEMENTARY ANALYSIS](#)
- [ELEMENTARY ANALYSIS HONORS](#)
- [CALCULUS HONORS](#)
- [ADVANCED PLACEMENT CALCULUS](#)
- [STATISTICS](#)
- [BUSINESS MATH](#)
- [SURVEY OF MATHEMATICS WITH APPLICATIONS](#)
- [CONSUMER RELATED MATH](#)
- [PSSA MATH](#)

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### **3210/1920 - Algebra I**

This course introduces the basic structure of mathematics through a thorough study of the real number system. Students study set theory, equations, applications and graphs. The role of deductive reasoning and the need for precise language are stressed.

### **3215/3211 - Applied Algebra I**

This course introduces the basic structure of mathematics through a thorough study of the real number system, variables, and open sentences. Major topics include polynomials and linear equations. The Applied Algebra I course is designed for those students who have experienced some difficulty in previous math classes and who will benefit from a slower pace.

### **3223 - Algebra I Honors**

Algebra I Honors focuses on the concepts of Algebra I in greater depth. Topics include solving equations and inequalities, graphing, polynomials, proportion and rational expressions, systems of equations and inequalities, roots and rational expressions, quadratic equations and graphing quadratic functions.

**Prerequisites:** *The student meets general criteria for placement in an honors level class.*

### **3300 - Geometry**

Geometry is the study of shapes and forms and develops powers of spatial visualization. Topics include a study of plane and solid figures, lines, angles, congruence, area, volume, and the meaning and nature of proof.

**Prerequisites:** *Algebra I.*

### **3301/3421 - Applied Geometry**

Applied Geometry is the study of shapes and forms and develops powers of spatial visualization. Topics include a study of plane and solid figures, lines, angles, congruence, area and volume. Applied Geometry is intended for the students coming from Applied Algebra I or those experiencing difficulty with Algebra I.

**Prerequisites:** *Algebra I or Applied Algebra I.*

### **3303 - Geometry Honors**

Honors Geometry is designed for students with above average ability in math. The focus is the same as regular Geometry; however, each topic is studied in greater depth. Standardized tests, achievement tests, and teacher recommendations are required for admission to this course.

**Prerequisites:** *Algebra I with teacher recommendation or Algebra I Honors. The student meets general criteria for placement in an honors level class.*

### **3220 - Algebra II**

Algebra II is the study of the basic structure of Algebra, the complex number system, variables and open sentences. The major topics covered are operations on complex numbers, factoring polynomials, and linear and quadratic equations. The Algebra II course is designed for those students who have experienced some difficulty in Algebra I or who will benefit from a slower pace.

**Prerequisites:** *Algebra I and Geometry.*

### **3221/3431/2020 - Applied Algebra II**

Applied Algebra II is a continuation of Applied Algebra I. The major topics include polynomials, factoring and linear and quadratic equations. Emphasis is given to graphing of these functions.

**Prerequisites:** *Algebra I or Applied Algebra I, and Geometry or Applied Geometry.*

### **3605 - Trigonometry**

Trigonometry is the study of angles. The course includes right triangles, functions, radian measure, unit circle, identities, equations, polar coordinates and parametric equations. Applications to real life situations are investigated. This class is intended for students who have completed Algebra II or Applied Algebra II.

**Prerequisites:** *Algebra I, II, and Geometry*

### **3500 - Algebra II/ Trigonometry**

This course continues the study of Algebra but in greater depth. New topics include sequences, logarithms, complex numbers and trigonometric functions. Emphasis is placed on deductive reasoning.

**Prerequisites:** *Algebra I and Geometry.*

### **3503 - Algebra II/ Trigonometry Honors**

Algebra II/Trigonometry Honors focuses on the concepts of Algebra II/Trigonometry in greater depth. Additional topics include analytic geometry, advanced algebra and trigonometry.

**Prerequisites:** *Algebra I Honors and Geometry Honors or Algebra I and Geometry with teacher recommendation. The student meets general criteria for placement in an honors level class.*

### **3600 - Elementary Analysis**

Elementary Analysis is a pre-calculus course focusing on the study of functions including polynomial, logarithmic, exponential and trigonometric functions. Basic concepts of calculus are introduced and utilized in the study of these functions.

**Prerequisites:** *Algebra I, Geometry, and Algebra II/Trigonometry.*

### **3603 - Elementary Analysis Honors**

Elementary Analysis Honors is a focuses on the concepts of Elementary Analysis in greater depth. Additional topics include introductory concepts of Calculus.

**Prerequisites:** *Algebra I Honors, Geometry Honors, Algebra II/Trigonometry Honors or Algebra I, Geometry, Algebra II/Trigonometry with teacher recommendation. The student meets general criteria for placement in an honors level class.*

### **3640 - Calculus Honors**

Calculus honors prepares the above average math student for college calculus. The course discusses the main ingredients of differential and integral calculus. The mechanics of differentiation and integration are presented and applied

**Prerequisites:** *Geometry Honors, Algebra II/Trigonometry Honors and Elementary Analysis Honors. The student meets general criteria for placement in an honors level class.*

### **3644 - Advanced Placement Calculus**

AP Calculus covers all the topics listed for Calculus but in greater depth. A greater emphasis is placed on problem solving and application of calculus theory. Students are familiarized with study techniques necessary for success on the College Board Advanced Placement test for college credit.

**Prerequisites:** *Geometry Honors, Algebra II/Trigonometry Honors and Elementary Analysis Honors. The student meets general criteria for placement in an honors level class.*

### **3605 - Statistics**

This introductory study is a non-theoretical approach without proofs. Rationale and methods are highlighted. This course begins with procedures in descriptive statistics. Subsequent topics include elementary probability, discrete probability distributions, normal probability distributions, confidence intervals, one and two sample testing, correlation and regression, Chi-Square tests and the F-Distribution.

**Prerequisites:** *Algebra I and Algebra II/Trigonometry (may be co-requisite).*

### **3700 - Business Math**

This course is designed to present a practical mathematics application for the business world. Emphasis is placed on preparation of payrolls, income taxes as well as consumer education.

### **3660 - Survey of Math with Applications**

This course is a broad based general overview of mathematics. It demonstrates the real life nature of mathematics. It incorporates recreational mathematics and timely tips to provide useful and timely information to help students understand concepts or relate material to other topics. Information is provided to relate mathematics to the student's everyday lives. It helps students to see a need for and gain an appreciation of mathematics.

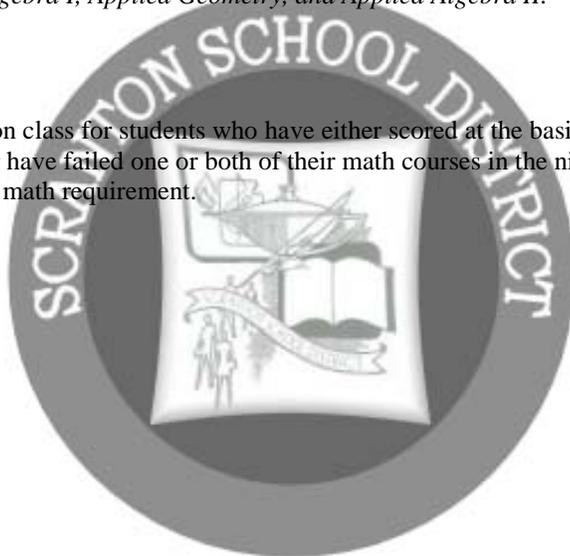
### **3501/3441 - Consumer Related Math**

Consumer Related Math is designed to present practical everyday mathematics needed for adult living. Topics include budgeting, rent/mortgage, insurance etc.

**Prerequisites:** *Applied Algebra I, Applied Geometry, and Applied Algebra II.*

### **3645 - PSSA Math**

PSSA Math is a remediation class for students who have either scored at the basic or below basic levels on their eighth grade PSSA or have failed one or both of their math courses in the ninth and tenth grade. It does not replace the junior math requirement.



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## **Science Department Required Courses**

### **Three courses required for graduation.**

- [GENERAL SCIENCE](#)
- [GENERAL SCIENCE HONORS](#)
- [BIOLOGY I](#)
- [BIOLOGY I HONORS](#)
- [ADVANCED PLACEMENT BIOLOGY](#)
- [PHYSICS](#)
- [ADVANCED PLACEMENT PHYSICS](#)
- [CHEMISTRY](#)
- [CHEMISTRY 10 HONORS](#)
- [ADVANCED PLACEMENT CHEMISTRY](#)
- [PHYSICAL SCIENCE](#)

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### **7100/7101/1930 - General Science**

General Science is an interdisciplinary course that presents an overview of the life sciences, chemistry, earth and space sciences and physics. Emphasis is placed on practical applications of science in an ever-increasing technological society.

### **7103 - General Science Honors**

This course is fundamentally the same as General Science. However, it is distinguished by a more academic approach. General Science is an interdisciplinary course that presents an overview of the life sciences, chemistry, earth and space sciences and physics. Emphasis is placed on practical applications of science in an ever-increasing technological society.

**Prerequisites:** *The student meets general criteria for placement in an honors level class.*

### **7200/7201 - Biology I**

Biology I is an introductory course to in the life sciences. Students in Biology I will study cells, genetics, evolution, the animal kingdom, ecology and the plant kingdom.

Lecture and computerized lab activities are an integral component of this course.

### **7203 - Biology I Honors**

Biology I Honors is develops an understanding of the nature of life and living things through lecture, research, oral and written reports, individualized work and laboratory experiences. The course emphasizes critical thinking skills and encourages students to develop a greater appreciation for their natural environment.

**Prerequisites:** *The student meets general criteria for placement in an honors level class.*

### **7204 - Advanced Placement Biology**

This course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. AP Biology should include the topics regularly covered in a college

biology course for majors. The textbooks used for AP Biology should be those used by college biology majors and the labs done by AP students must be the equivalent of those done by college students. The AP Biology course is designed to be taken by students after the successful completion of a first course in high school biology and one on high school chemistry. It aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. The two main goals of AP Biology are to help students develop a conceptual framework for modern biology and to help students gain an appreciation of science as a process.

**Prerequisites:** *The student meets general criteria for placement in an honors level class and recommendation of Biology Honors/Chemistry Honors teacher.*

### **7300 - Physics**

Physics is a comprehensive study of the relationship between materials and energy. Energy, force, motion, electricity, and magnetism are among the topics examined through observation, the scientific method of reasoning, mathematical analysis, and laboratory experiences.

### **7304 - Advanced Placement Physics**

Physics Honors is a more rigorous study of the concepts and applications of modern physics. It is designed for the student who will continue the study of physics at the college level. Standardized tests, achievement tests, and teacher recommendations are required for admission to this course.

**Prerequisites:** *The student meets general criteria for placement in an honors level class.*

### **7400 - Chemistry**

Chemistry examines the composition, structure and properties of matter. Emphasis is placed on the understanding of both the changes that matter undergoes as well as the laws and principles which govern these changes. Laboratory experiences are an integral part of the Chemistry core curriculum.

### **7402 - Chemistry 10 Honors**

Chemistry Honors is a comprehensive study of the composition, structure, and properties of matter. Students are introduced to the concepts of chemical kinetics, thermo-chemistry, and chemical equilibria.

**Prerequisites:** *Biology Honors along with the student meeting general criteria for placement in an honors level class.*

### **7404 - Advanced Placement Chemistry**

Advanced Placement Chemistry is a college level course which studies the structure of matter, kinetic theory of gases, chemical equilibria, chemical kinetics and basic concepts of thermodynamics. Laboratory experiences are a major component of AP Chemistry. Students are familiarized with study techniques necessary for success on the College Board Advanced Placement Chemistry test.

**Prerequisites:** *The student meets general criteria for placement in an honors level class and recommendation of Biology Honors teacher.*

### **7500/7501/1934 - Physical Science**

Physical Science introduces many of the basic concepts of chemistry and physics. Course content includes weights, measurements, and graphing. The handling and manipulations of laboratory equipment are an integral part of the course.

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## Science Department Electives

- [HUMAN PHYSIOLOGY HONORS](#)
  - [ENVIRONMENTAL STUDIES](#)
  - [EARTH AND SPACE SCIENCE](#)
- 

### 7700 - Human Physiology Honors

Human Physiology is designed to prepare students who plan to enter the medical/health care fields upon graduation. This course focuses on the structure and functions of the human body. Pathology and treatment of disorders are included in the study of each of the body systems.

**Prerequisites:** *Biology I Honors and Chemistry or Chemistry Honors. Biology I students who demonstrate a strong work ethic and above average grades will also be given consideration.*

### 7800 - Environmental Studies

This course offers an interdisciplinary perspective of the nature of our environment. The interrelationship and interdependence of man and his environment lead to the discussion and study of modern environmental issues. **Note: Students may opt to select this course for credit as either a social studies or science elective.**

### 7550 - Earth and Space Science

Earth and Space Science describes the study of the earth and other planets as comprehensive physical systems, incorporating solid, liquid, gas, and radiation constituents, as well as exhibiting interactions with other systems. It includes planetary evolution, gravitational physics, atmospheric evolution, volcanism and crustal movement studies, global energy systems, organic systems and ecologies, oceanography, fluid dynamics, orbital mechanics, radiation physics, and the study of planetary and satellite systems.

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## **HEALTH/SAFETY AND PHYSICAL EDUCATION REQUIRED COURSES**

1.0 CREDIT IN PHYSICAL ED.

.80 CREDITS IN HEALTH

.20 CREDITS IN SAFETY

- [PHYSICAL EDUCATION I GRADE 9](#)
- [HEALTH EDUCATION I/II GRADE 9](#)
- [PHYSICAL EDUCATION II GRADE 10](#)
- [HEALTH EDUCATION III/IV GRADE 10](#)
- [SAFETY EDUCATION GRADE 10](#)
- [PHYSICAL EDUCATION III GRADE 11](#)
- [PHYSICAL EDUCATION IV GRADE 12](#)
- [ADAPTIVE PHYSICAL EDUCATION](#)

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### **0110 - Physical Education I**

Physical Education I is an essential part of the total educational program and is required in each of the four years of high school. The program is designed to promote health and a sense of well being in students. The goal of the four-year physical education program is the optimum physical and emotional development of the student through guided instruction.

*Meets 2 days per week.*

*.25 credits*

### **0111 - Health Education I/II**

The Health Education program meets the challenges of today's adolescents by providing instruction that focuses on all teenage health issues. The curriculum is broad and ranges from units on human sexuality, drugs, and systems of the body, to responsible decision-making, critical thinking, and refusal skills.

*Meets 3 days per week.*

*.40 credits*

### **0120 - Physical Education II**

Physical Education II is an essential part of the total educational program and is required in each of the four years of high school. The program is designed to promote health and a sense of well being in students. The goal of the four-year physical education program is the optimum physical and emotional development of the student through guided instruction.

*Meets 2 days per week.*

*.25 credits*

**0121 - Health Education III/IV**

This course is a more in depth and practical exploration of the numerous issues that face today's teens. Broad topics include family and personal relationships, self-esteem, confidence, and responsible decision making with a focus on the student's maturation and development into early adulthood.

*Meets 2 days per week.*

*.40 credits*

**0122 - Safety Education**

Safety Education program consists of the theory instruction of Pennsylvania Driver Education. No behind-the-wheel instruction is included.

*Meets 1 day per week.*

*.20 credits*

**0130 - Physical Education III**

Physical Education III is an essential part of the total educational program and is required in each of the four years of high school. The program is designed to promote health and a sense of well being in students. The goal of the four-year physical education program is the optimum physical and emotional development of the student through guided instruction.

*Meets 2 days per week.*

*.25 credits*

**0140 - Physical Education IV**

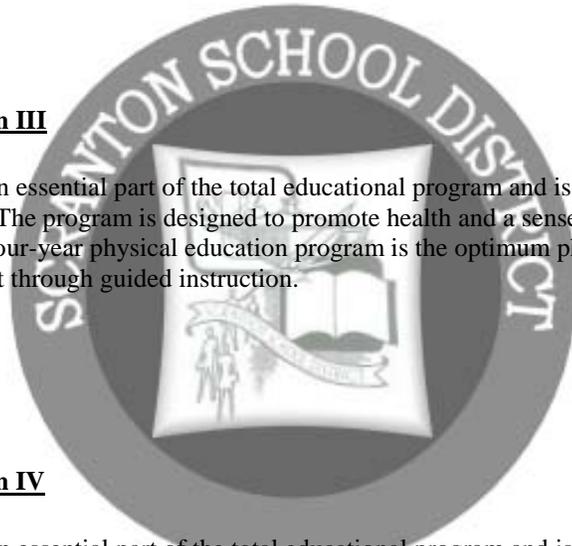
Physical Education IV is an essential part of the total educational program and is required in each of the four years of high school. The program is designed to promote health and a sense of well being in students. The goal of the four-year physical education program is the optimum physical and emotional development of the student through guided instruction.

*Meets 2 days per week.*

*.25 credits*

**0153 - Adaptive Physical Education**

Adaptive Physical Education is a prescribed physical education program addressing the specific and individual needs of physically handicapped students.



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## **Computer Electives**

- [COMPUTER SKILLS I](#)
- [COMPUTER SKILLS II](#)
- [COMPUTER SKILLS III](#)

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### **0510 - Computer Skills I**

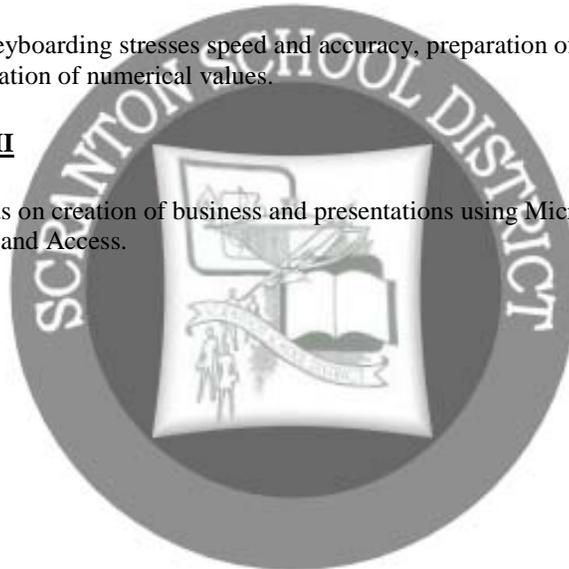
This course acquaints students with the keyboard and its applications including preparing letters, envelopes, and manuscripts.

### **0520 - Computer Skills II**

This course in advanced keyboarding stresses speed and accuracy, preparation of standard business forms, and computation and tabulation of numerical values.

### **0530 - Computer Skills III**

This course further expands on creation of business and presentations using Microsoft programs such as Word, Excel, PowerPoint, and Access.



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## **Business Department Electives**

- [INTRODUCTION TO BUSINESS](#)
- [CO-OP CAREER SKILLS](#)
- [CO-OP WORK EXPERIENCE](#)
- [BUSINESS ACADEMIC COMPUTERS](#)
- [PRINCIPALS BUSINESS MANAGEMENT](#)
- [ACCOUNTING I](#)
- [ACCOUNTING II](#)

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### **0600 - Introduction to Business**

This course provides students with a basic introduction and understanding of the business world and the economic environment. Topics include banking, budgeting, savings, insurance, taxes, and labor and management relations.

### **1010 - Co-Op Career Skills (AM)**

Course is offered in conjunction with work experience program to help prepare and monitor student progress as they enter the work force. Students will learn the importance of a strong work ethic and key employability skills which will ensure success on the job.

**Prerequisites:** *Grade 12 students only taken in conjunction with co-op work experience.*

### **1030 - Co-Op Work Experience (PM)**

Cooperative Education offers an opportunity for qualified students to experience and progress in an approved job position with local businesses. Students learn key skills while learning on the job.

**Prerequisites:** *Grade 12 students only, taken in conjunction with local business and industry.*

### **1410 - Business/Academic Computer**

Students will learn Microsoft Word, Excel, Access and PowerPoint. Specifically, students will write research papers and resumes, create spread sheets, formulas charts, database creation, designing presentation, created slide shows and using clip art.

**Prerequisites:** *Available to students in grades 10, 11 and 12.*

### **1300 - Principles Business Management**

Students will learn all of the aspects of business, business operations and managing a business. Topics covered include business ownership, production, marketing, financial management, human resources and management responsibilities. Students learn through hands-on projects and discussion.

**Prerequisites:** *Available to students in grades 11 and 12.*

### **1810 - Accounting I**

Accounting I enables students to compile, analyze, and audit business records. The ability to prepare financial records and reports is stressed.

### **1820 - Accounting II**

This is a more in-depth treatment of fundamental accounting procedures with an emphasis on departmental, partnership, and cost accounting.

**Prerequisites:** *Accounting I.*



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## **Fine Arts Electives**

- [ART I](#)
- [ART II](#)
- [ART MAJOR II](#)
- [ART III](#)
- [ART MAJOR III](#)
- [ART IV](#)
- [ART MAJOR IV](#)
- [ADVANCED PHOTOGRAPHY/ART HISTORY](#)

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### **6210 - Art I**

This course is a basic introduction to art materials and techniques. Students will get to experiment with various mediums for example paint, sculpture and charcoal.

### **6220 - Art II**

Art II emphasizes drawing, painting and 3 dimensional techniques. An increased awareness and usage of art materials such as: pastels, watercolors, acrylics, ink and clay are explored through compositional studies and projects. Art History appreciation and influences are also included.

**Prerequisites:** *Art I.*

### **6226 - Art Major II**

Art Major selections are offered to Art I students maintaining a grade of 90 or higher all four quarters. Areas of study include batik, portfolio work, mixed media, sculpture, and independent projects, just to name a few.

**Prerequisites:** *Art I, Recommendation of Art Teacher.*

### **6230 - Art III**

Art III introduces students to the history of Art and Architecture as well as advanced techniques of sculpture. Students will continue to explore the elements of design through drawing and paintings that are more detailed. Independent, self-motivated projects increase in numbers and quality.

**Prerequisites:** *Art II.*

### **6236 - Art Major III**

Art major selections are offered to students who are capable of advanced artwork and who may be considering a career in art. The main area of study is portfolio preparation and independent projects.

**Prerequisites:** *Art I and Art Major II, Recommendation of Art Teacher.*

#### **6240 - Art IV**

Art IV course is developed to focus on the individual students artistic and creative abilities. This advanced course has an emphasis on Art history, drawing, painting and sculpture with projects that are longer in focus and scope.

**Prerequisites:** *Art III*

#### **6246 - Art Major IV**

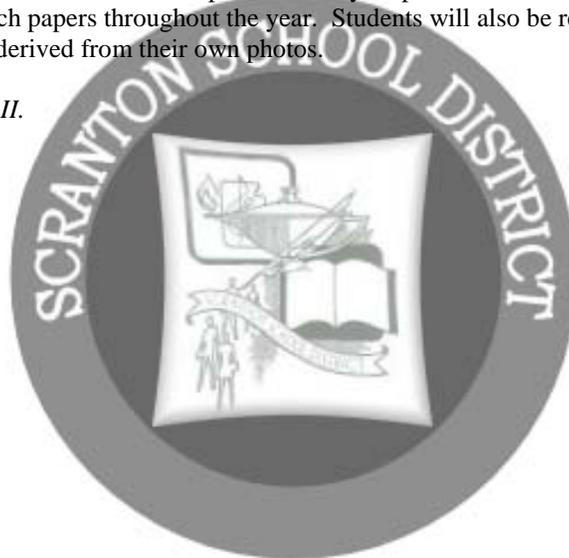
This course is offered to students who are capable of advanced artwork and are considering a career in art. Emphasis is placed on completion of and college prep.

**Prerequisites:** *Art I, Art Major II & III, Recommendation of Art Teacher.*

#### **6250 - Advanced Photography/Art History**

This black and white photography course is intended to introduce students to the processes of developing and printing black and white photos. Course is structured as a laboratory course including use of dark room equipment and procedures. This course places a heavy emphasis on the history of Photography with a number of written research papers throughout the year. Students will also be responsible for a number of black and white drawings derived from their own photos.

**Prerequisites:** *Art Major II.*



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## Music

Music courses in Band, Strings, or Chorus are planned to meet the needs and interests of the student through participation in classroom activities and to lead to a working knowledge of the elements of music and thus a true appreciation of music. In this context, we believe a truly balanced program of musical instruction needs to develop musical skills in a logical and orderly fashion and to include participation in public performances such as concerts, PTA programs, assemblies, parades, PMEA festivals, athletic events, and cavalcades. Such performances, however, should reflect the student's ability in relation to his level of accomplishment. Therefore, performance participation is to be extremely limited at Level I and progress more extensively as the student attains higher levels of standing. In short, participation in public performances must not dictate the program of studies, but should naturally evolve as a result of the program of studies.

Further, the study of music inherently provides constant reinforcement of certain basic learning skills such as auditory discrimination, encoding, decoding, psychomotor development, and mathematical conceptualization, all of which are relevant to achievement in other disciplines.

It is our belief that the best learning takes place in an atmosphere which is imaginative, interesting, and above all conducive to learning. Such an atmosphere will encourage students to actively participate in numerous and varied activities which inherently contain the objectives stated herein. Being aware that all students are not the same, no attempt will be made to prescribe an exclusive activity to achieve a particular objective. Rather, it is expected that a variety of teacher devised activities will be used to supplement, not supplant, the prescribed text. Such activities may include any combination of, but are not limited to, reading, writing, explaining, and performing music.

In each of the three areas, Band, Strings, and Chorus, a multi-level program of studies is offered which will provide a firm foundation in a proceeding progressive sequence of music learning activities.

- [BEGINNING CHORUS](#)
- [INTERMEDIATE CHORUS](#)
- [ADVANCED CHORUS](#)
- [BEGINNING BAND](#)
- [INTERMEDIATE BAND](#)
- [ADVANCED BAND](#)
- [BEGINNING STRINGS](#)
- [INTERMEDIATE STRINGS](#)
- [ADVANCED STRINGS](#)
- [COMPUTERIZED MUSIC LABORATORY](#)

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### 6510 - Beginning Chorus I

This course is a basic introduction to ensemble singing. Students are taught the fundamentals of good vocal technique as well as introduced to singing in voice parts. Students are required to sing every day. Students learn basic music notation and basic music theory needed to read choral music. Students are required to sing in two major concerts during the school year. Students are graded on participation in class and written music instruction.

### **6515 - Intermediate Chorus**

This course continues to develop the singing voice and the ability to sing in three and four part harmony as directed in the standards for music education. Students continue to learn music theory as well as develop the ability to play basic music notation on the keyboard. Students are required to sing in two major concerts during the school year. Students are graded on participation and the successful completion of written theory assignments.

**Prerequisites:** *Successful completion of Beginning Chorus.*

### **6520 - Advanced Chorus**

This class is for Juniors and Seniors who have successfully passed Beginning and Intermediate Chorus. Students continue to develop their part singing skills as well as knowledge of music theory. Students will perform at various public functions throughout the year as well as required concerts. A high interest in music performance is required for successful participation in this class.

**Prerequisites:** *Successful completion of Beginning and Intermediate Chorus.*

### **6610, 6615, 6620 - Beginning Band, Intermediate Band, Advanced Band**

Band provides an opportunity for students to develop individual musical potential. Course content includes music history and theory, and the program emphasizes the ability to perform proficiently. All band students participate in concert and marching band.

### **6710, 6715, 6720 - Beginning Strings I, Intermediate Strings, Advanced Strings**

Strings class develops student proficiency in the various stringed instruments including violin, viola, cello, and string bass. Course content includes music history and theory, score study, and performance.

### **6640 - Computerized Music Laboratory.**

This program is offered for serious music students who are interested in pursuing technology-based musical performance.

**Prerequisites:** *Grade 11 or 12 who have taken advanced levels of music.*

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## **Foreign Language Department Electives**

- [LATIN I](#)
- [LATIN II](#)
- [LATIN III](#)
- [LATIN IV](#)
- [SPANISH I](#)
- [SPANISH II](#)
- [SPANISH III](#)
- [SPANISH IV](#)
- [GERMAN I](#)
- [GERMAN II](#)
- [GERMAN III](#)
- [GERMAN IV](#)
- [FRENCH I](#)
- [FRENCH II](#)
- [FRENCH III](#)
- [FRENCH IV](#)

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### **2110 - Latin I**

This is an entry-level course, which provides a sound foundation for the study of classical Latin. The structure of the language and vocabulary development is emphasized. Students learn the conjugation of verbs, active and passive voice, and the declensions of nouns and adjectives.

### **2120 - Latin II**

Latin II expands upon the structures and vocabulary development in Latin I. Students is taught to apply these skills in more advanced readings and translations, which deal with an appreciation of Roman culture.

**Prerequisites:** *Latin I*

### **2130 - Latin III**

Latin II focuses on the classical epic. This unique literary form is analyzed through the poetic technique of the Aeneid.

**Prerequisites:** *Latin I and Latin II.*

### **2140 - Latin IV**

Latin IV emphasizes the political, cultural, and religious background of the Roman Empire and the influences of Latin literature on the literature of other cultures. Readings of Cicero's Orations and Letters are featured.

**Prerequisites:** *Latin I, Latin II, and Latin III.*

### **2210 - Spanish I**

Spanish I is designed to provide the student with an overview of the Spanish language. Objectives of this course are to provide proficiency of the Spanish language in listening, speaking, reading and writing. Students of Spanish I will engage in partner and group activities, oral questioning and cultural events. Students of Spanish will develop the ability to converse in Spanish I from the earliest stages.

### **2220 - Spanish II**

Spanish II continues to develop emerging linguistic abilities and to expand basic grammatical structures. Greater emphasis is placed on listening, speaking, reading and writing skills and the cultural contributions of Spain and Latin America. Computer software is used to compliment classroom activities.

**Prerequisites:** *Spanish I.*

### **2330 - Spanish III**

Spanish III continues to develop proficiency in all four world language skills: listening, speaking, reading and writing, with sustained use of the language orally using idiomatic expressions and complex grammatical structures within context. Students of Spanish III read study and discuss authentic reading selections as a vehicle to develop critical thinking. Students of Spanish III continue to study the cultures of the Spanish speaking world and their influence on American culture. The teacher's instruction is primarily in Spanish and students are required to speak Spanish as well.

**Prerequisites:** *Spanish I and Spanish II.*

### **2240 - Spanish IV**

Spanish IV continues to develop proficiency in the four world language skills. This course emphasizes communicative skills and an appreciation of the culture of the Spanish speaking world. Students of Spanish IV further enhance and develop these skills through the study of advanced grammatical structures, enhanced vocabulary acquisition, the reading and analysis of literature in Spanish, cultural awareness of current events and civilization of the Spanish speaking world, and the continued development of oral and aural skills.

**Prerequisites:** *Spanish I, Spanish II, and Spanish III.*

### **2310 - German I**

The primary aim of German I is to develop students' beginning in the skills of listening, speaking, reading, and writing German, so that they will be able to communicate successfully in the target language at the novice/beginner level. By the end of their first year of instruction, students will have mastered the basic features of the sound and writing systems, be able to use many of the basic grammatical and linguistic structures in everyday conversation and writing, and be able to draw upon an active vocabulary of about 800 words, as well as recognize additional words in spoken or written texts. A second purpose of German I is to introduce students to contemporary life and culture in the German-speaking countries. Cultural notes and readings, as well as discussion of current events, will highlight topics of interest in Austria, the Federal Republic of Germany, and Switzerland.

### **2320 - German II**

The primary aim of German II is to develop students' beginning competence in the skills of listening, speaking, reading, and writing, so that they will be able to communicate at the novice/low intermediate level in German. By the end of the second year of German instruction, students will have mastered the basic features of the sound and writing systems, will be able to use many of the basic grammatical structures in everyday conversation and writing, and will also be able to draw upon an active vocabulary

of about 1,500 words, as well as recognize additional words in spoken or written texts. The second aim of the German II program is to further develop students' knowledge of contemporary life and culture in German-speaking countries. Cultural notes and readings, as well as units about historical and current events, highlight topics of interest in Austria, the Federal Republic of Germany, Switzerland, and the European Union. Historical topics will include discussions about World Wars I and II, the Holocaust, and the resistance movements in Germany during World War II.

**Prerequisites:** *German I.*

### **2330 - German III**

The aim of the German III program is two-fold. First of all, students will learn most of the advanced grammatical principles of German. They will improve their use of adjective endings, the perfect tenses, the subjunctive mood, the idiomatic uses of the modal auxiliary verbs, and the special verb *lassen*. Second, students will also improve their communicative skills, learning to initiate conversation and respond in both scripted and unscripted situations. In the process, they will also demonstrate increased cultural awareness and understanding, as they begin to respond to scenarios in culturally-appropriate ways. The German III course also gives students the opportunity to hone their reading and comprehension skills, since they will be reading longer and more complicated authentic texts. Through discussion of assigned texts, oral and written exercises, and written compositions, students will demonstrate both their comprehension of the text and their ability to use German to communicate their ideas about the readings and their appreciation of German language, literature, and culture.

**Prerequisites:** *German I and German II.*

### **2340 - German IV**

The German IV course provides students with a thorough review of the fundamental principles of German grammar. In addition to reviewing basic grammar, students will also learn how to use more advanced grammatical structures in their speaking and writing. The course will emphasize the use of the passive voice, subjunctive mood, indirect discourse, and specialized idiomatic expressions in everyday speech. In the process, students will have the opportunity to improve their passive and active communicative skills, and to demonstrate increased cultural awareness and understanding. They will be able to carry on general conversation, discuss their personal opinions on a range of topics, and argue their point of view in a culturally-appropriate manner. Students will read more advanced short stories, poems, radio dramas, songs, and portions of longer texts. As their reading skills improve, they will demonstrate increased comprehension and ability to interpret different types of texts. They will also use their writing skills to analyze literary texts and adapt what they read to other media.

**Prerequisites:** *German I, German II and German III*

### **2410 - French I**

French I is designed to offer the basics of the French language and the francophone culture. Students of French I will develop skills in listening, speaking, reading and writing French. Students of French I will engage in group activities along with oral questioning. Francophone culture will be introduced within the context of daily lessons and holiday celebrations. In addition, students will be able to react appropriately and to understand one another in simple social interactions.

### **2420 - French II**

French II is designed to expand upon the communicative tasks and skills practiced in French I and to heighten awareness of francophone culture. Students of French II will continue to develop skills in listening, speaking, oral comprehension, reading and writing French. Students of French II will be able to utilize the practical aspects of French in routine situations. In addition, students will become acquainted with notable cultural and historical francophone figures.

**Prerequisites:** *French I*

**2430 - French III**

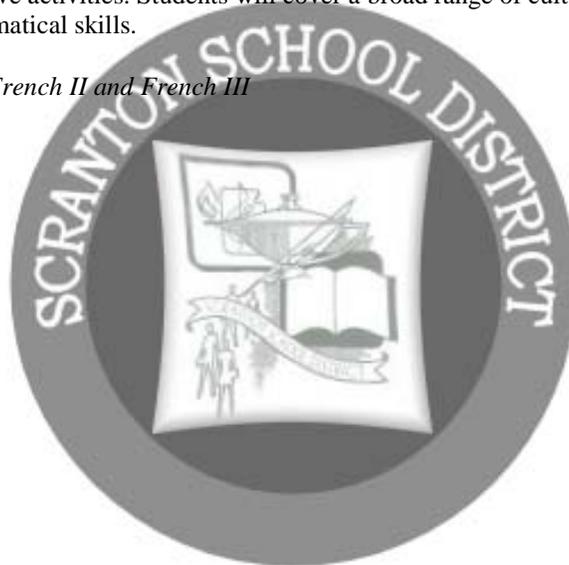
French III is designed to offer a more advanced study of the French language and culture. Students of French III will expand proficiency in listening, speaking, reading and writing of the French language. Students of French III will engage in small group discussion and oral questioning. Students will become acquainted with notable cultural and historical francophone figures and will experience cultural activities. In addition, students will expand their critical thinking skills through writing papers, journaling, reading short stories and expressing opinions.

**Prerequisites:** *French I and French II*

**2440 - French IV**

French IV is designed to offer further study of the French language, literature and the francophone culture. Students of French IV will continue to expand their proficiency in listening, speaking, reading and writing of the French language. Students of French IV will expand their linguistic and cultural knowledge through readings and communicative activities. Students will cover a broad range of cultural and literary content using analytical and grammatical skills.

**Prerequisites:** *French I, French II and French III*



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## **Family and Consumer Science Electives**

- [FAMILY AND CONSUMER SCIENCE ROTATION](#)
- [FOODS II](#)
- [FOODS III](#)
- [FOODS IV](#)
- [CLOTHING DESIGN AND CONSTRUCTION II](#)
- [CLOTHING DESIGN AND CONSTRUCTION III](#)
- [CLOTHING DESIGN AND CONSTRUCTION IV](#)
- [INTERIOR DECORATING](#)
- [FAMILY LIVING](#)

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### **4000 - Family and Consumer Science Rotation**

This entry-level course is designed as an introduction to all areas of Family and Consumer Science. The units covered include Family Living, Child Development and Parenting, Clothing Construction, Housing and Home Furnishings, Food preparation, Nutrition and Personal Finance.

### **4320 - Foods II**

Foods II is a full-year course concentrating on the importance of nutrition and proper meal planning and preparation. An in-depth study of the basic four food groups and nutrients is offered in Foods II. This course is offered for the student who is interested in successfully preparing meals at home, for the student who wants to become more knowledgeable about nutrition, and for the student who plans to attend a vocational-technical school course of food preparation.

**Prerequisites:** *Family and Consumer Science Rotation.*

### **4330 - Foods III**

The Foods III course takes the student from home preparation to the supermarket as it explores the realm of institutional food preparation. The student is shown how to plan meals for the family by wise merchandising and by proper time scheduling. New tools and the techniques of food preparation outside the home are introduced for those who may be employed in the field of food service.

**Prerequisites:** *Foods II*

### **4340 - Foods IV**

The Foods IV course explores the significance of food by studying nutrition problems in the world and by studying the food customs of many foreign countries. The Foods IV course also studies the scientific nature, structure and composition of foods. Much emphasis in this course is placed upon the selection and storage of food to prepare students to live on their own after graduation.

**Prerequisites:** *Foods III*

### **4420 - Clothing Design and Construction II**

Clothing Design and Construction II is a basic course in clothing selection, care and construction. The major areas covered in this course include clothing selection, clothing care according to fabric content, choosing a garment, pattern selection, pattern terms and symbols, determining fabric needed for a garment, pattern layout, transferring pattern markings, methods of pattern construction and pattern alteration. This course is designed to give students a broad, basic background in clothing construction. At the end of this course, students will be able to choose patterns and fabrics and to construct a simple garment. This course will also help the students understand the different characteristics of fabrics and their care to allow intelligent decisions about fabrics which will best fit their particular needs.

**Prerequisites:** *Family and Consumer Science Rotation.*

### **4430 - Clothing Design and Construction III**

Clothing Design and Construction III is an elective course offered to provide a more in depth study of fabric and clothing construction. It is intended for students who have had prior experience in clothing. Topics covered in this course include, but are not limited to, fiber identification and comparison, line and design in clothing construction, and new life for old clothes.

**Prerequisites:** *Clothing Design and Construction II*

### **4440 - Clothing Design and Construction IV**

Clothing Design and Construction IV course is designed to develop a student's individual talent and interest in clothing. Along with the psychology of clothing, the course reviews and reinforces clothing construction techniques and skills already covered in previous home economics courses. It also encourages the development of skills such as embroidery and knitting which can be used throughout life for relaxation and enjoyment. The Clothing Design and Construction IV course is tailored to the individual and, therefore, strives to meet the various skill levels of each student. Students with advanced skills may act as tutors to reinforce their skills while they help other students learn.

**Prerequisites:** *Clothing Design and Construction III*

### **4100 - Interior Decorating**

This course develops an understanding of the principles of interior design and the mastery of the skills used in home decorating. Course emphasis is on the development of individual creative talents. Course work includes an analysis of the elements and principles of design, creation of home furnishings, organizing presentation boards, and developing a design for a client. The course is developed for Juniors and Seniors who have already taken FCS rotation, Clothing and/or Art.

**Prerequisites:** *Family and Consumer Science Rotation, Clothing and/or Art.*

### **4200 - Family Living**

Family Living is designed to provide students with an understanding of the various stages in the life cycle. Course units include: Establishing a Personal Identity, Forming Interpersonal Relationships, Exploring Human Development, Exploring Family Life, Combining Work and Family and Enhancing Family Functioning.

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## **Industrial Arts Electives**

- [SHOP I ROTATION](#)
  - [WOOD SHOP II](#)
  - [WOOD SHOP III](#)
  - [WOOD SHOP IV](#)
  - [DRAFTING II](#)
  - [DRAFTING III](#)
  - [DRAFTING IV](#)
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### **5000 - Shop I Rotation**

Shop I is offered to students who are enrolled in industrial arts for the first time. The course covers wood shop and drafting and serves as an introduction to the advanced programs in these specialties. The course provides the students with an opportunity to work with stationary machinery, power hand tools, hand tools, and computer graphics. The students also obtain the necessary knowledge needed to perform and exercise safe and constructive work habits. Shop I as an introductory course, also prepares the students with the skills needed to obtain various project levels that are more complex.

### **5520 - Wood Shop II**

Wood Shop II is offered to students who have an interest in advanced woodworking. The course covers project selection, basic wood joints, machine safety, and careers in woodworking. Numerous projects and ideas are introduced to students, so that the students can advance and achieve various skill levels. The course also focuses on working independently, developing safe work habits, and working on more advanced machines. Students are taught how to select lumber for projects and how to order lumber.

**Prerequisites:** *Shop I*

### **5530 - Wood Shop III**

The Wood Shop III course in industrial technology has been designed to develop and advance each student's talents and interest in woodworking. Wood Shop III is a more advanced study of general woodworking and a continuation of Wood Shop II. Strong emphasis is placed on developing safe work habits, orderly work procedures, and a full understanding of the use of woodworking tools and machinery. The Wood Shop III course places strong emphasis on individual creativity and the development of original design. Wood Shop III is progressive; it recognizes that more advanced students must be allowed to strive toward higher skill levels while those students of lesser ability move at a more moderate pace.

**Prerequisites:** *Wood Shop II*

### **5540 - Wood Shop IV**

Wood Shop IV is a continuation of Wood Shop III. In this course, strong emphasis is placed on introducing students to the various fields of woodworking such as carpentry, building construction, cabinet making, and patternmaking. Students are also made aware of various technical, trade and vocational schools that are available to them. Wood Shop IV focuses on the individual design, development,

construction, and completion of a major wood project. The course also emphasizes basic skills and knowledge in the improvement and maintenance of the home.

**Prerequisites:** *Wood Shop III*

### **5620 - Drafting II**

Drafting II introduces students to the terminology of graphic studies. Beginning students learn about the various types of drafting, and how they are used in construction and industry.

**Prerequisites:** *Shop I*

### **5630 - Drafting III**

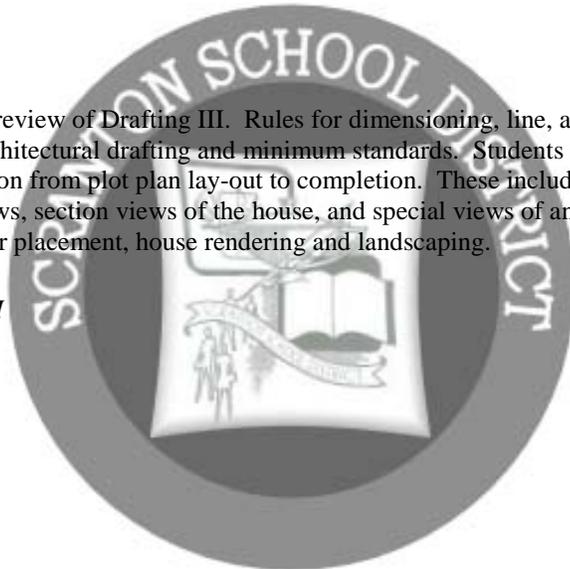
Drafting III introduces to students three-view drawings and pictorial views of objects and advances to architectural drafting and design, plot plans, and CAD technology.

**Prerequisites:** *Drafting II*

### **5640 - Drafting IV**

Drafting IV begins with a review of Drafting III. Rules for dimensioning, line, and weight are reviewed along with standards in architectural drafting and minimum standards. Students are introduced to all aspects of home construction from plot plan lay-out to completion. These include foundation plans, elevation views, detail views, section views of the house, and special views of any elaborate features including window and door placement, house rendering and landscaping.

**Prerequisites:** *Drafting III*



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## Lunch

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### 9899 - Lunch.

West Scranton students are required to eat in our newly refurbished cafeteria. *Nutrition, Inc.* provides students with numerous daily selections from a hot lunch to deli items at a reasonable cost. Free and reduced lunches are also available to families who qualify. Parents are asked to contact the school for salary verification forms and applications for free and reduced lunches.



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## **Vocational Electives**

- [AUTOMOTIVE TECHNOLOGY](#)
- [BUILDING MAINTENANCE TECHNOLOGY](#)
- [CARPENTRY](#)
- [COLLISION REPAIR TECHNOLOGY](#)
- [COMMERCIAL ART AND DESIGN](#)
- [COMPUTER INFORMATION TECHNOLOGY](#)
- [COMPUTER MAINTENANCE TECHNOLOGY](#)
- [COSEMETOLOGY](#)
- [CULINARY ARTS](#)
- [DIESEL EQUIPMENT TECHNOLOGY](#)
- [DRAFTING AND DESIGN TECHNOLOGY](#)
- [EARLY CHILDHOOD CARE AND DEVELOPMENT](#)
- [ELECTRONICS](#)
- [ELECTRICAL CONSTRUCTION AND MAINTENANCE](#)
- [GRAPHIC AND PRINTING COMMUNICATIONS TECHNOLOGY](#)
- [HEALTH OCCUPATIONS TECHNOLOGY](#)
- [HORTICULTURE AND LANDSCAPING](#)
- [INDUSTRIAL MACHINE TECHNOLOGY](#)
- [PLUMBING AND HEATING TECHNOLOGY](#)
- [PROTECTIVE SERVICES OCCUPATION](#)
- [TROWEL TRADES](#)
- [WELDING TECHNOLOGY](#)

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### **4617 - Automotive Technology**

The Automotive Technology program provides the student with an entry-level background in the skills and knowledge needed for a career in the automotive field.

### **4622 - Building Maintenance Technology**

The Building Maintenance Technology program is designed to train students who must keep machinery, mechanical equipment, and physical structures of an establishment in good repair and working order.

### **4627 - Carpentry**

The Carpentry program provides students with the entry-level skills required in the home construction industry or a related field of carpentry. Instructional units cover safety, hand tools, power tools, use of transit, blue prints, pneumatic fasteners, computer assisted design, and estimation.

### **4640 - Collision Repair Technology**

The Collision Repair Technology program will provide students with knowledge and skills necessary to perform the tasks of an entry-level technician in the ever changing collision repair industry. Students will learn safety precautions and demonstrate shop safety in their daily tasks. Instruction will include damage cost estimating, its analysis, and the terminology used in the collision repair industry.

#### **4644 - Commercial Art and Design**

The Commercial Art and Design program provides the artistic student with an opportunity to explore various visual communication fields. Course units are designed to guide students through the fundamentals of drawing, design, color, tools, and techniques.

#### **4652 - Computer Information Technology**

The computer Information Technology program provides students with the knowledge needed to obtain an entry-level position in the business field. Students learn how to use various computer software programs and how to work with the latest technology.

#### **4647 - Computer Maintenance Technology**

The Computer Maintenance Technology program trains students as computer support technicians in all areas related to IBM compatible personal computers. The course is designed so that students obtain the knowledge, skills, and customer service techniques essential in becoming a successful computer support technician.

#### **4639 - Cosmetology**

The Cosmetology program is designed to train students to learn a variety of services related to the care and beautification of the hair, complexion, and hands. Instruction includes training on shampooing, manicuring, rinses and scalp treatments, hair styling, setting, dyeing, tinting and bleaching, permanent waving, facials, and massaging.

#### **4687/4688 - Culinary Arts**

Culinary Arts program consists of a series of planned courses designed to provide students with skills, knowledge, and attitudes necessary for entry-level employment and post secondary training in food related careers. Students will learn how to order, receive, store, prepare, and serve food and beverage along with measuring, mixing, and proportioning using various utensils, tools, and equipment.

#### **4657 - Diesel Equipment Technology**

The Diesel Equipment Technology program will prepare students to apply technical knowledge and skills to repair, service, maintain, and diagnose malfunctions of diesel engines and diesel powered truck systems. The instruction will include training in safety, diesel engines and diesel engine systems, electrical and electronic systems, air and hydraulic brake systems, drive train, steering and suspension systems.

#### **4667 - Drafting and Design Technology**

The Drafting and Design Technology program instructs the students in creating drawings representing ideas, concepts, and real objects including assembly and detail drawings, along with associated material specifications. The course is intended to give the student the opportunity to develop essential skills used in engineering graphics, architectural drawing and materials of construction.

#### **4634 - Early Childhood Care and Development**

The Early Childhood Care and Development program provides students who enjoy working with children or are planning careers in education instruction on how to plan, develop and conduct learning activities in the on-site Step By Step Preschool. Under the direction of the instructors, the students operate the center, guide and interact with the 3, 4, and 5-year old children, and teach developmentally appropriate lessons.

### **4683 - Electronics**

The Electronics Technology program provides students with the necessary information, develops the needed skills, and encourages those attitudes that will meet the needs of secondary students interested in an occupation related to the broad and ever changing field of electronics. Students in this program will learn how to install, operate, maintain, and repair electronic equipment.

### **4672 - Electrical Construction and Maintenance**

The Electrical Construction and Maintenance program provides students with training and practical experience in the installation of circuits, switches, conduits, circuit breakers, and other electrical devices. Students learn to connect and disconnect electrical equipment and determine proper installation and operation of electrical work, apply procedures used in interior circuits and outlets, and troubleshoot electrical malfunctions.

### **4689 - Graphic and Printing Communications Technology**

The Graphic and Printing Communication Technology program prepares the student to enter the printing, photographic, and advertising industries with practical instruction in the production of a wide variety of printed products from the initial design to the finished product. Students will learn skills in the layout/design, photography (film based and digital), film assembly, plate making, press operations, and finishing.

### **4695 - Health Occupations Technology**

The Health Occupations Technology program allows students to explore a variety of health professions and to develop awareness and skills within these fields. Units of instruction are but are not limited to CPR, first aid, fundamentals of anatomy and physiology, medical terminology, medical ethics, introduction to pharmacology, nutrition, basic abnormal anatomy and physiology, geriatric health care skills, basic health care skills, communication skills, human growth and development, basic computer skills related to medical office procedures, safety and security, dental procedures, and doctor's office procedures.

### **4697 - Horticulture and Landscaping**

The Horticulture and Landscaping program provides students with training in floral design, greenhouse management, plant identification, bedding plant production, and pesticide safety and use. This program devotes time to prepare students to offer the many services of a retail florist; floral design; and shop management.

### **4706 - Industrial Machine Technology**

The Industrial Machine Technology program provides students with the skills necessary to manufacture precision parts for industry worldwide. The course offers training in the machine shop trades, particularly that of a machinist, which is a highly skilled occupation. Instruction involves a progression from blueprint reading to the operation of computer numerical controlled machines (CNC).

### **4725 - Plumbing and Heating Technology**

The Plumbing and Heating Technology program has a specialized classroom and lab for practical learning experience including layout, assembly, installation and repair of pipes, fittings, and fixtures of water and drainage systems according to specifications and plumbing codes. Students gain experience in soldering, brazing, and the use of hand and power tools specific to this occupation.

#### **4728 - Protective Services Occupation**

The Protective Services Occupation program provides students with training required to perform entry-level duties as a police officer, fire fighter, paramedic, and other safety services. The program stresses the techniques, methods, and procedures unique to the areas of criminal justice, emergency medical services, and fire protection.

#### **4737 - Trowel Trades**

The Trowel Trades program provides students with the fundamental skills needed to work with block, brick, and stone. Students will learn block and brick laying, mortar mixing, steps and brick veneer layout, fireplace layout, scaffold safety, basic concepts in retaining wall systems, layout and review of different types of patterns and shapes for brick paving, estimating projects, and the proper use of all masonry tools.

#### **4742 - Welding Technology**

The Welding Technology program provides students with training in oxy-acetylene welding, brazing, cutting, spray welding applications, AC/DC shielded metal arc welding, gouging, upset welding, semi-automatic metallic arc welding, plasma arc welding, flux core welding, tungsten inert gas welding, and plastic welding.

Students in good academic standing in their sophomore year may choose to select one of the elective courses described above at the Career Technology Center (CTC) of Lackawanna County. Students are bused to the CTC during the eighth grade year to tour the facility and speak with vocational counselors. In the spring of freshman year, students may select with their guidance counselor a vocational program of study, which includes a career elective at the CTC. Parents are asked to review with their son/daughter this choice and enter the course selection of interest from the CTC catalogue on the course selection form in the space provided on the application.

