Scranton School District

Course Catalog/Curriculum Guide

2022-2023

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

TABLE OF CONTENTS

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

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By developing the course catalog/curriculum guide for the Scranton School District, the administration and staff may better communicate with parents, students, and the whole community.

Introduction

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 Scranton School District administration and faculty have assembled information including a description of each course within our secondary program.

The goal of the Scranton School District 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, career and college readiness, military or another path. To achieve this goal, parents and students are urged to review carefully the information contained in this course catalog/curriculum guide and to work closely with school counselors to develop four-year educational plans.

Our course catalog/curriculum guide will contain most of the information students need to know about our class offerings and educational opportunities. Course listings and descriptions 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.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

With careful and thoughtful planning and strong communication, students will be well on their way to a successful career in the Scranton School District with the aid of this course catalog/curriculum guide.

SUPERINTENDENT'S MESSAGE

Today's seniors, the Scranton School District (SSD) class of 2022, were born probably in 2004. In the time that marks the year of their birth to the year of their graduation, some remarkable inventions have overtaken the world. Social media is now the top source of news sharing and information exchange for most people. Text messages have transformed the way we "talk" with one another. Laparoscopic or minimally invasive surgery continues to develop as the better, faster, safer alternative to traditional forms of surgery, and listed among job vacancy announcements are titles such as green building architect, social media manager and drone operator, careers that did not exist when today's seniors began their education 12 short years ago.

Our responsibility is to prepare our students for a brighter future. But how can we prepare them, when the future – especially science, technology, engineering, arts, and mathematics (STEAM) – remains largely unpredictable? One or two generations ago, we would have discarded as pure science fiction the possibility that we would be making video calls around the world from anywhere and without a cable wire almost for free. We would have dismissed as an imaginary tale the use of our phones to transfer money, check test scores, make purchases, and transmit all sorts of highly personal and sensitive information. Amid the unpredictability, however, lies familiarity. We know that technology drives growth and productivity. We know that the mobile revolution continues to reshape economies and social structures. We know, most of all, that education – a good education – is still the pathway for not only individual success, but also community and generational advancement.

At the end of this school year, as one class of SSD students prepares to exit, another class will soon enter. Futurists are already drawing predictions about the world awaiting today's preschool students. By the time they grow up, they may enjoy traveling in self-driving cars to live-work-play hubs that are not expected to be traditional Monday-through-Friday and 9-to-5 operations. Moreover, possibly and hopefully, our children's children may experience life free of disease, including everything from cancer to poverty.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

To help our students enjoy the advancements to come, and confront the challenges to follow, we present *The Map: The Scranton School District Course Catalog/Curriculum Guide for the 2022-2023 school year*.

The Map will provide students with a guide to navigating their future by focusing on their key interests and using certain career pathways when choosing the courses they will take throughout their high school career. These pathways will prepare them for their post secondary choices, whether that may be a four year college, a trade school, or a career in the military.

The Map aligns perfectly with the *Scranton One: Strategic Plan 2020 – Working Together for a Brighter Future*. Our strategic plan is the roadmap for moving our district forward by strengthening our approach to specific areas of teaching and learning. The strategic plan takes into account where our district stands today – academically, operationally and financially– and where we want to be in 2020 on behalf of the students we are fortunate to serve. The plan reflects our belief that for student success to occur across the Scranton City School District we must work as one system-one community with common goals and with students as our collective number one focus. In other words, we must become *Scranton One*.

PURPOSE OF COURSE CATALOG/CURRICULUM GUIDE

The planning process allows students to explore meaningful opportunities connected to student interest. Scranton School District is committed to preparing students for success in the post-secondary endeavor of their choice. As you consider and explore your post-secondary options, we encourage you to examine your schedule in conjunction with your future plans. We also encourage you to strive to create opportunities to get involved and be connected with school and/or community activities. Please remember that it is beneficial to have extra-curricular experiences on your resume. We want to make sure you enter college or the workforce with the knowledge and skills needed to be successful.

The course catalog/curriculum guide describes the full roster of board-approved courses for the 2022-2023 school year. Final decisions as to which courses and course sections are taught next year will be made in light of such factors as student enrollment, interest in particular courses and staffing constraints.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

This booklet describes the Program of Studies offered by Scranton School District. Regardless of your interests, needs or abilities, you will find listed subjects which will prepare you for working in business or industrial fields, for entering technical or trade schools, or for matriculating at a college or university.

Certain basic subjects are required of all students at Scranton School District. Elective subjects should be selected in cooperation with counselors and parents on the basis of individual interests, aptitudes, and skills. Each student will be required to take seven credits each year. These should be selected carefully from course offerings for each grade.

Recommendations for student placement in courses depend on the following considerations:

A. Quality of scholastic work in high school as evidenced by school grades and instructor's evidence and recommendation.
B. Intellectual, emotional and social maturity of the student.

VISION

The vision of the Scranton School District is to educate students to their full potential and to prepare them to be successful in all aspects of their lives.

MISSION STATEMENT

The mission of the Scranton School District is to educate, inspire and empower.

GOAL

To Improve Teaching and Learning→Manage Performance

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

SSD CORE BELIEFS AND COMMITMENTS

- The best gift children can receive is a quality education.
- All children can learn to their full potential, and we respect their aspirations and goals.
- To prepare our students to compete in a global society.
- Have a student-focused culture of continuous improvement and accountability.
- To surround students with adults who are caring and nurturing, build self-esteem, foster ethics and responsibility, and teach ways to set and achieve goals.
- Engage, empower and encourage teachers and school leaders to employ instructional strategies that promote exploration and discovery, and to utilize differentiated learning strategies based on individual student needs.
- Involving all stakeholders is vital to enriching the educational experience and is critical to student success.
- Education is the shared responsibility of the entire district, school and community.
- Provide a safe and secure learning environment where all students can achieve their goals.
- Diversity needs to be recognized, encouraged and celebrated.
- Students learn at different rates and in different ways.
- Critical thinking and lifelong learning skills are keys to success in a global society.
- Excellence is attainable
- Participation in extra-curricular activities enhances student development.
- Learning should be appropriately challenging and transferable to real life situations.
- Respect is a mutual responsibility.
- Strong public schools are the foundation of our society.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Section 1: Planning the High School Program

THE FOUR-YEAR PLAN

Diploma Pathways

There are five areas of concentration. A student may choose one area to follow based on what their post secondary goals are.

SCRANTON SCHOOL DISTRICT

DIPLOMA PATHWAYS

STEAM Education									
Area of Concentration: Arts/Science/Mathematics		Area of Concentration: Science/Technology/Engineering/ Mathematics		Area of Concentration: College or Career Ready		Area of Concentration: Vocational		Area of Concentration: Workforce Development	
Course	Units	Course	Units	Course	Units	Course	Units	Course	Units
English Language Arts	4	English Language Arts	4	English Language Arts	4	English Language Arts	4	English Language Arts	4
Mathematics	4	Mathematics	4	Mathematics	4	Mathematics	3	Mathematics	3
Science	4	Science	4	Science	3	Science	3	Science	3
Social Studies	3	Social Studies	3	Social Studies	3	Social Studies	3	Social Studies	3
Arts/Humanities	2	Arts/Humanities	2	Arts/Humanities	2	Arts/Humanities	2	Arts/Humanities	2
Health/Safety/PE	1	Health/Safety/PE	1	Health/Safety/PE	1	Health/Safety/PE	1	Health/Safety/PE	1
Electives: Locally Required	4	Electives: Locally Required	4	Electives: Locally Required	5	Vocational Shop/Trade Selection*	6	Workforce Dev. Placement	4
Up to 5 Extra Elective Credits		Up to 5 Extra Elective Credits		Up to 5 Extra Elective Credits		Up to 5 Extra Elective Credits		Electives: Locally Required*	2
								Up to 5 Extra Elective Credits	
ELECTIVES SELECTIONS		ELECTIVES SELECTIONS		ELECTIVES SELECTIONS		ELECTIVES SELECTIONS		ELECTIVES SELECTIONS	
Core Courses: · English/Language Arts · Mathematics · Science · Social Studies World Languages: · Spanish 1-2-3-4 · French 1-2-3-4 · German 1-2-3-4 · Latin 1-2-3-4 College and Career Ready · SAT Prep · College Career Readiness Fine Arts: · Art 1-2-3-4 · Art Major 1-2-3-4 · Photography 1-2 · Chorus (Beg-Int-Adv) · Band (Beg-Int-Adv) · Strings (Beg-Int-Adv) · Computerized Music Lab · Speech/Drama 1-2-3-4 · Advanced Composition · Journalism · Creative Writing · College & Career Ready · TV Production · Native Speaking Spanish *CROSSOVER ELECTIVES ARE ACCEPTABLE		Core Courses: · Mathematics · Science World Languages: · Spanish 1-2-3-4 · French 1-2-3-4 · German 1-2-3-4 · Latin 1-2-3-4 College and Career Ready · SAT Prep · College Career Readiness Business: · Intro To Business · Small Bus. Management · Principles of Bus. Mang.. · Business Acad/Computer · Accounting 1-2-3 Industrial Arts · Drafting 2-3-4 · Metal 2-3-4 · Technology 2-3-4 · Graphic Arts 2-3-4 · Electric 2-3-4 Family and Consumer Science Computer Science *CROSSOVER ELECTIVES ARE ACCEPTABLE		Core Courses · English/Language Arts · Mathematics · Science · Social Studies World Languages: · Spanish 1-2-3-4 · French 1-2-3-4 · German 1-2-3-4 · Latin 1-2-3-4 College and Career Ready · SAT Prep · College Career Readiness Business: · Business Acad/Computer Industrial Arts · Drafting 2-3-4 · Metal 2-3-4 · Technology 2-3-4 · Graphic Arts 2-3-4 · Electric 2-3-4 Family and Consumer Science · Money Management · Parenting · Foods 2-3-4 · Clothing 2-3-4 · Interior Design · Family Living *CROSSOVER ELECTIVES ARE ACCEPTABLE		*Choose from CTC Program Courses		*Choose from Columns 1-2-3 *CROSSOVER ELECTIVES ARE ACCEPTABLE	
Minimum Credits Required for Grad.	22	Minimum Credits Required for Grad.	22	Minimum Credits Required for Grad.	22	Minimum Credits Required for Grad.	22	Minimum Credits Required for Grad.	22
Maximum Credits Possible	27	Maximum Credits Possible	27	Maximum Credits Possible	27	Maximum Credits Possible	27	Maximum Credits Possible	27

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

GRADUATION REQUIREMENTS

Graduation Requirements- A minimum of 22 credits needed for graduation

Graduation Credit Requirements

	Scranton School District Graduation Requirements • **Each area requires a minimum of 22 credits; however students have the option to elect up to 5 additional credits giving them a total of 27 credits.**			
Subject	**Credits: 22-27**			
	STEAM (2 areas) **AMS** | **STEM**	**College/Career**	**Vocational**	**Workforce Development**
English	4	4	4	4
Mathematics	4	4	3	3
Science	4	3	3	3
Social Studies	3	3	3	3
Arts or Humanities or Both	2	2	2	2
Health / Safety / Physical Education	1	1	1	1
Student selects five additional courses from among those approved for credit toward graduation by the school including approved vocational education courses.	4	5	6	2 **4- Workforce development placement / Internship / Co-op**
	Minimum Total = 22	**Minimum Total = 22**	**Minimum Total = 22**	**Minimum Total = 22**
	Can elect up to 5 additional credits from core or non-core	Can elect up to 5 additional credits from core or non-core	Can elect up to 5 additional credits from core or non-core	Can elect up to 5 additional credits from core or non-core
	Maximum Total = 27	**Maximum Total = 27**	**Maximum Total = 27**	**Maximum Total = 27**

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

GRADING SYSTEM

Range of Grades: 10 to 100

Minimum Passing Grade: 70

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

FINAL AVERAGES

Final averages for full credit are calculated based upon in the table below:

	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Final Exam
Course	22.22%	22.22%	22.22%	22.22%	11.11%

CALCULATING G.P.A FOR EACH QUARTER

To calculate the final G.P.A. for a given year:

(1) Multiply the final grade for each full-year course by 1; multiply the final grade for each partial credit course by its value health (0.3/0.2), PE (0.2/0.15), safety (0.1) and swim (0.05).

(2) Add all of the resulting numbers and divide the total by the number of credits attempted for the given year.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

HONORS/AP POLICY

The Scranton School District offers a broad program of subjects which allows a student to elect courses based upon individual abilities, achievements, and goals within the limit of requirements for graduation. The program operates on three levels—Regular (R), Honors, and Advanced Placements (AP). Placement in level courses comes from teacher recommendations and counseling assistance. Honors and Advanced Placement courses are available for students who meet the established criteria.

The standard numerical grade prerequisite for all honors (H) and AP courses is as follows:

- R→H-95% or higher
- H→H-92% or higher
- H→AP-93% or higher

in the corresponding subject in the previous year.

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.

ADVANCED PLACEMENT (AP) COURSES

The Scranton School District offers AP Courses in 12 different subject areas. AP courses offer competitive advantage in college admissions, greater course depth, and preparation for college-level work. AP courses are offered based upon instructor availability and student interest; some AP courses may not be offered every year.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Biology AP	European History AP
Calculus AP AB	Physics I AP
Chemistry AP	Psychology AP
Computer Science A AP	Spanish Language AP
English AP Literature and Composition	United States Government/Politics AP
Environmental Science AP	United States History AP

CLASS RANK (WEIGHTED)

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

HONOR ROLL

Students with an 89.5% average or better for the current marking period (quarter)will be eligible for an honor roll status. Students must also successfully pass all subjects and must not receive any incomplete grades in order to receive this distinction. All subjects graded on a numerical basis will be used in calculating the honor roll status each quarter.

NATIONAL HONOR SOCIETY

The Scranton School District has maintained a chapter of the National Honor Society since 1921. The chapter is very active in supporting, serving, and financing projects in the school and community. The minimum ***cumulative*** grade point average (GPA) required for ***provisional*** (after 3rd marking period of a student's ***junior*** year) and ***full*** (official) (after 3rd marking period of a student's ***senior*** year) membership into ***THE NATIONAL HONOR SOCIETY*** is 92%. Students must also successfully pass all subjects and must not receive any incomplete grades in order to receive this distinction. Students are selected for membership on the basis of four characteristics established by the national organization and must satisfactorily meet and possess ***Character, Scholarship, Leadership and Service*** as part of the requirements of the National Honor Society.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

HIGH SCHOOL TRANSCRIPT

A student's high school transcript is a working record of student performance. Essentially, there are two types of transcripts: a College Transcript, which is a transcript that is sent and reviewed by college officials for admissions or scholarship purposes, and a Final Transcript, which is the culmination of all relevant information at the end of the student's high school career. The Final Transcript is securely maintained by the Scranton School District Guidance Department for a period of one year and then the transcript will be sent to Central Registration indefinitely.

Students and parents should be aware that certain information will always be included on the transcript. Such information includes course title, final grade, credits earned, and grade point average. A student's cumulative grade point average is calculated quarterly. This information will be included on the student transcript. The eighth semester cumulative grade point average will appear on the Final Transcript. The student's transcript is a record of his/her academic and attendance history throughout high school. The transcript includes the final grade for each course. Colleges, universities and employers often request a copy of the student's transcript.

PROMOTION POLICY

Purpose

The Board recognizes that the emotional, social, physical and educational development of students will vary and that students should be placed in the educational setting most appropriate to their needs. The district shall establish and maintain academic standards for each grade and monitor individual student achievement in a continuous and systematic manner.

Authority

The Board establishes that each student shall be moved forward in a continuous pattern of achievement and development that corresponds with the student's progress, system of grade levels, and attainment of the academic standards established for each grade.[1][4][8][9]

A student shall be promoted when s/he has successfully completed the curriculum requirements and has achieved the academic standards established for the present level, based on the professional judgment of the teachers and the results of assessments. A student shall earn the right to advance to the next grade by demonstrating mastery of the required skills and knowledge.[1][4][5]

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

A student must satisfactorily complete a total of four (4) credits in order to progress from grade 9 to grade 10. A student must satisfactorily complete a total of nine (9) credits in order to progress from grade 10 to grade 11. A student must satisfactorily complete a total of fifteen (15) credits in order to progress from grade 11 to grade 12.

Delegation of Responsibility

The Superintendent or designee shall develop administrative regulations for promotion and retention of students which assures that every effort will be made to remediate the student's difficulties before the student is retained.[6][7]

Guidelines

In all cases of retention, the parents/guardians shall be fully involved and informed throughout the process. Parents/Guardians and students shall be informed of the possibility of retention of a student well in advance.

The district shall utilize multiple measures of academic performance as determinants in promotion and retention decisions.[5]

Retention

The educational program shall provide for the continual progress of children from grade to grade with students spending one (1) year in each grade. A small number of children, however, may benefit from staying another year in the same grade. Such retention may be considered for kindergarten students when parents/guardians so request and when conditions 2, 3, and 4 listed below have been met. Retention may also be considered when:

1. The child is in grades 1 through 3, or on rare occasions in grades 4 through 8.

2. The child is achieving significantly below ability in grade level.

3. Retention would not cause an undue social or emotional adjustment as determined by a conference including the input of staff and parents/guardians.

4. Retention would have a reasonable chance of benefiting the child's overall development.

Retention shall not be considered for the child who is already being retained.
Whenever such retention is being considered, the teacher shall confer with the principal and other staff members involved with the student. The parents/guardians shall be invited to a meeting with the teacher and other staff members as soon as retention is being considered for discussion of the matter. This discussion shall consist of an explanation of their child's academic standing in relation to the group and the child's own individual ability. Whether a discussion is held or not, a written warning notice will be sent to the parents/guardians. The decision to retain shall be made jointly by the teacher and the principal. The parent/guardian may appeal the decision to the Director of Elementary Education or the Director of Secondary Education; however, great weight will be given to the factors substantiating the principal's judgment.

Upon deciding to retain, a written prescriptive statement shall be developed by the teacher and principal in consultation with the parent/guardian.

Promotion on Advisement

An alternative to retention is promotion on advisement. This approach is to be used when a student is achieving significantly below grade level and when retention shall be judged to cause an undue social or emotional adjustment or when retention would not have a reasonable chance of benefiting the child's overall development. Promotion on advisement shall not be considered for the student who is in his/her present grade assignment as a result of a promotion on advisement.

Promotion

A number grade of at least seventy (70) or better will be the established passing grade for the course and yearly promotion. This guideline will take into consideration student progress achieved when measured against student ability.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

SCRANTON SCHOOL DISTRICT SUMMER CYBER SCHOOL PROGRAM

1. CREDIT RECOVERY COURSES

Students who have failed major courses during the school year will be allowed to make up as many as two (2) credits in the Scranton School District Summer Cyber School utilizing the district's APEX Learning system. The highest grade that can be received in a Make-up course is 83.

2. ENRICHMENT COURSES

Students may choose to enroll in high school enrichment programs during the Scranton School District Summer Cyber School Program. Enrichment courses are intended for students who wish to preview a course which they will take, to learn more about a subject which they have taken and passed, or to explore a new era.

3. CREDIT COURSES

Courses for Credit are courses for full credit, work expectations are intense.

KEYSTONE EXAM INFORMATION

This section outlines basic information pertaining to the Keystone Exams, including: grade level of Keystone Exam administration, retest scenarios, and next assigned course for students scoring in the basic or below basic scoring category. Keystone Exams in Literature, Algebra 1, and Biology serve a dual purpose as both graduation requirements and for state accountability as required under federal law.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Keystone Exams

Keystone Exam	Current Course	Grade Tested	Testing Window	Next Course Assigned
Literature	English II	10	Spring	English III
Algebra	Algebra I at the Middle School	8	Spring	Geometry
Algebra	Algebra I at the High School	9, 10 or 11 depending upon the students grade level	Spring	Geometry
Biology	Biology	10	Spring	Chemistry or general practical science

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Retest Scenarios:

Keystone Exam	Current Course	Testing Window
Literature	English III	Winter and/or Spring
Algebra	Geometry	Winter and/or Spring
Biology	Chemistry or general practical science	Winter and/or Spring

New students enrolled in the district, who have not taken the Keystone Exams, will be assigned to a testing window (winter or spring).

TESTS REQUIRED FOR GRADUATION-ACT 158 (effective class of 2023)

If a student does not reach proficiency score or composite proficiency score on Keystone Exam they will be required to meet their graduation requirements by means of meeting one of three other alternate evidence based pathways of success.

For students graduating in 2023 and beyond, the following options exist to meet the statewide graduation requirement:

- **Keystone Proficiency Pathway:** Scoring proficient or advanced on each Keystone Exam - Algebra I, Literature, and Biology
- **Keystone Composite Pathway:** Earning satisfactory composite score on the Algebra I, Literature, and Biology Keystone Exams. Earn **one** non-numeric Proficient in a Keystone

Exam (Alg. I, Bio or Lit.) pursuant to Act 136 of 2020. Successfully complete locally established, grade-based requirements for academic content (**pass the course-Alg. I, Bio., or Lit.** in which the student is enrolled in) associated with each Keystone Exam in which the student **does not have a numeric or non-numeric score of Proficient/Advanced.** Need **two** numerical scores for all Keystone Exams (Alg. I, Bio & Lit) that total **2939** or greater that includes at least one Proficiency score or better and no score of Below Basic.

COMPOSITE SCORE NEEDED-2939

- **Alternate Assessment Pathway:** Successful completion of locally established grade-based requirements for academic content areas associated with each Keystone Exam on which the student did not achieve proficiency **and** one of the following:
    - Attainment of an established alternate assessment (SAT, PSAT, ACT, ASVAB);
    - Gold Level on the ACT WorkKeys Assessment;
    - Attainment of an established score on an Advanced Placement Program or an International Baccalaureate Diploma Program exam in an academic content area associated with teach Keystone Exam in which the student did not achieve at least a proficient score;
    - Successful completion of a concurrent enrollment course in an academic content area associated with each Keystone Exam in which the student did not achieve at least a proficient score;
    - Successful completion of a pre-apprenticeship program; or
    - Acceptance in an accredited 4-year nonprofit institution of higher education and evident of the ability to enroll in college-level coursework.

- **Evidence Based Pathway:** Successful completion of locally established grade-based requirements for academic content areas associated with each Keystone Exam on which the student did not achieve proficiency and demonstration of three pieces of evidence consistent with the student's goals and career plans including

    - One of the following:
        - Attainment of an established score on the ACT WorkKeys assessment, a SAT subject test, and Advanced Placement Program Exam, or an International Baccalaureate Diploma Program Exam;
        - Acceptance to an accredited nonprofit institution of higher education other

than a 4-year institution and evidence of the ability to enroll in college-level coursework;
    - Attainment of an industry-recognized credential; or
    - Successful completion of a concurrent enrollment or postsecondary course; and
  - Two additional pieces of evidence, including one or more of the options listed above, or: satisfactory completion of a service learning project; attainment of a score or proficient or advanced on a Keystone Exam; a letter guaranteeing full-time employment; a certificate of successful completion of an internship or cooperative education program; or satisfactory compliance with the NCAA's core courses for college-bound student athletes with a minimum grade point average (GPA) of 2.0.

- **CTE Pathway:** For Career and Technical Education (CTE) Concentrators, successful completion of locally established grade-based requirements for academic content areas associated with each Keystone Exam on which the student did not achieve proficiency and attainment of an industry-based competency certification related to the CTE Concentrator's program of study or demonstration of a high likelihood of success on an approved industry-based competency assessment or readiness for continued meaningful engagement in the CTE Concentrator's program of study.

DUAL ENROLLMENT

The Scranton School District has partnerships in agreement with local colleges to offer dual enrollment opportunities for our students. Students may choose to enroll in classes which have been designated by Lackawanna College, Keystone College, Luzerne County Community College (LCCC) and Johnsons College that will allow students to earn college credit while taking class at SHS and WSHS at a nominal fee. The cost and grade requirement will vary with each institution.

General Dual Enrollment Requirements

- Dual enrollment courses should all be taken in Grade 10 or above
- Lab components are required for Science courses to meet dual enrollment requirements.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

- Scranton School District courses meet the learning objectives as stated in each catalog of the institutions that have an agreement in place using identical or comparable course materials and assessments.

LACKAWANNA COLLEGE	
COST $250 FOR A 3 CREDIT COURSE/$335 FOR A 4 CREDIT COURSE-MINIMUM FINAL GRADE REQUIRED IN COURSE-80% (or better). 12 CREDITS ALLOWED PER ACADEMIC YEAR	
LC Course	**SSD Course**
College Writing	English IV AP/Adv. Composition/Career & College Readiness
Intro to Literature	English III Reg. & Honors
Intro to Psychology	Psychology Honors & AP/Sociology/Psychology
US History II	US History II Reg., Honors & AP
American Government	American Government/Law Reg., Honors & AP
World History	AP European History
Biology I/Lab-4 Cr.	AP Biology 2
Chemistry I/Lab-4 Cr.	AP Chemistry
General Physics I/Lab-4 Cr.	Physics Reg. & AP (AB)
Environmental Science/Lab-4 Cr.	AP Environmental Science
Precalculus-4 Cr.	Elementary Analysis Reg. & Honors
Calculus-4 Cr.	Calculus Reg.,Honors & AP
Introduction to Statistics and Data Analysis	Statistics and Probability
Elem Spanish I	AP Spanish

KEYSTONE COLLEGE	
COST $100 PER CREDIT- FINAL GRADE REQUIRED IN COURSE-78%(or better)	
Keystone College Course	**SSD Course**
Human Anatomy and Physiology-4 Cr.	Human Physiology AP
Environmental Science	AP Environmental Science
General Biology I-4 Cr.	AP Biology II
General Biology II-4 Cr.	AP Biology II

General Chemistry I-4 Cr.	AP Chemistry
General Chemistry II-4 Cr.	AP Chemistry
College Writing II	AP English IV
Western Civilization	AP European History
US History I	AP US History
US History II	AP US History
Calculus I-4 Cr.	AP Calculus
General Physics I-4 Cr.	AP Physics B
General Physics II-4 Cr.	AP Physics B
American and National Government	AP American Government
Elementary Spanish I	Spanish III
Elementary Spanish II	Spanish IV
JOHNSON COLLEGE	
COST $100 PER CREDIT- FINAL GRADE REQUIRED IN COURSE-80%(or better)	
Johnson College Course	**SSD Course**
Introduction to Business	Intro to Business/Marketing
Microcomputers I	Business Academic Computers
Principles of Management	Principles of Business Management
Introduction to CAD	Drafting IV
Introduction to Algebra	Algebra II/Trig Honors
Trigonometry	Trigonometry
LUZERNE COUNTY COMMUNITY COLLEGE	
Luzerne County Community College Course	**SSD Course**
Survey of Mathematics	College Ready Math

SPECIAL PROGRAMS/COURSES

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

1. **ARTS/MATH/SCIENCE (AMS) COURSE**-This course is designed to prepare a student for post secondary education, particularly for college.

2. **SCIENCE/TECHNOLOGY/ENGINEERING/MATHEMATICS (STEM) COURSE**-This course is designed to prepare a student for post secondary education, particularly for college to study Math/Science.
3. **COLLEGE & CAREER READY (CCR) COURSE**-This course is designed to prepare a student to be career & college ready.
4. **VOCATIONAL COURSE**-This course attempts to provide students with a variety of several different vocational area trades. Examples include but are not limited to carpentry, machine work, electricity, power, drafting, graphic arts, home economics etc.
5. **WORKFORCE DEVELOPMENT**- This course is designed to prepare a student for the workforce.

ADVANCED PLACEMENT (AP)-Courses are offered in U.S. History, Biology, Chemistry, Physics, Government and Politics, English Composition and Literature, European History, Environmental Science, Computer Science, Psychology, Spanish 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 needs of the student's learning disabilities.

NAF HEALTH SCIENCES ACADEMY-NAF's Academy of Health Sciences addresses the critical achievement gap in STEM fields by developing a pipeline of students prepared to pursue health-related degrees and professions. NAFTrack Certification validates successful course completion, projects, and internships. By receiving a passing score on end-of-course exams and satisfactory scores on culminating project and internship assessments, students earn NAFTrack Certification - signifying to post-secondary institutions and employers that they are both college and career ready.

PLANNING YOUR SCHOOL PROGRAM

(Steps in Planning)

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

The program of studies which you plan will help you to enjoy a successful and meaningful high school career. It will determine how well you are prepared for college entrance or for obtaining employment or achieving other post-secondary goals. Here are the steps you should follow:

1. Establish personal goals.
2. Evaluate honestly your personal strengths, interests, aptitudes and needs.
3. Learn the requirements for entrance to the college or school you plan to attend, or for the kind of work you plan to do after graduation.
4. During the 11th grade, try to visit the colleges, technical schools, or places of employment in which you are interested.
5. Consult with your parents, talk with your teachers, and confer with your guidance counselor to get the benefit of their experience and information.
6. Select the subjects that will contribute toward achieving your goals.

GUIDELINES FOR PROGRAM PLANNING
(Guide to Subject Selection)

In selecting your subjects for the next school year, please keep in mind the following requirements and procedures:

1. A student may select up to nine elective courses credits in grades 9 through 12; physical education is required of all students during grades 9 and 10.
2. Study descriptions of subjects and **pay special attention to the prerequisites for certain courses.**
3. Students should follow teacher recommendations for course-level placement and select elective courses appropriate to their post-high school plans.
4. Students taking three or more honors or advanced placement courses during one school term should consider time constraints and workload for each course.
5. Course selection sheets will go home for parental approval and signature which finalize the student's graduation pathway.
   We realize that there may be preference for specific teachers, study hall periods, and lunch periods. Please understand that we are limited in our ability to make requested schedule changes by the number and availability of courses offered and class size. Requests for

teacher, lunch, study hall, etc. will not be honored. Once the school year starts, schedules will not be changed. Our top priority is to ensure that all of our students have the required courses at the most challenging levels that are appropriate for their abilities. Call the student's counselor if there are any questions.

The Guidance Department will answer questions about course options and career planning. Please contact the Guidance Office if you have questions about the scheduling process.

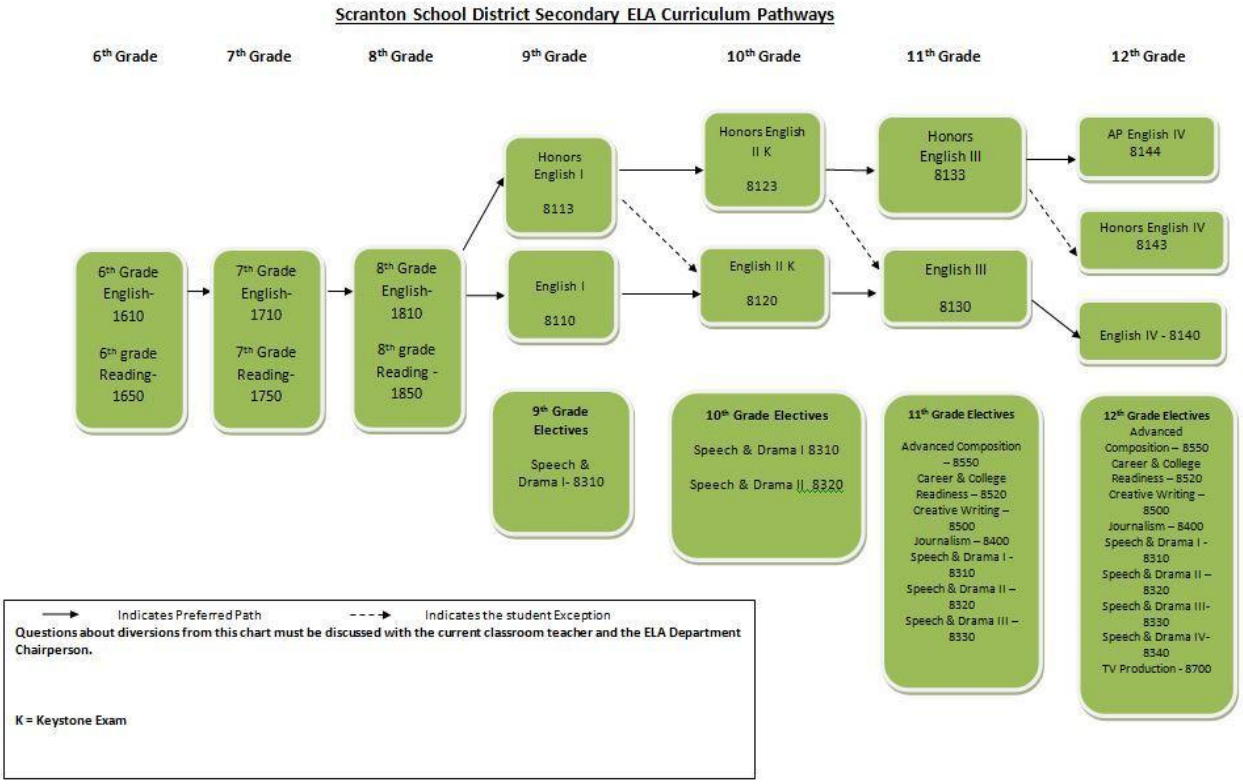
Section II: Using Career Pathways as a Planning Guide

DEFINITION OF CAREER PATHWAY

A Career Pathway is a guided sequence of courses by grade level for a specific academic discipline based on the Scranton School District core curriculum.

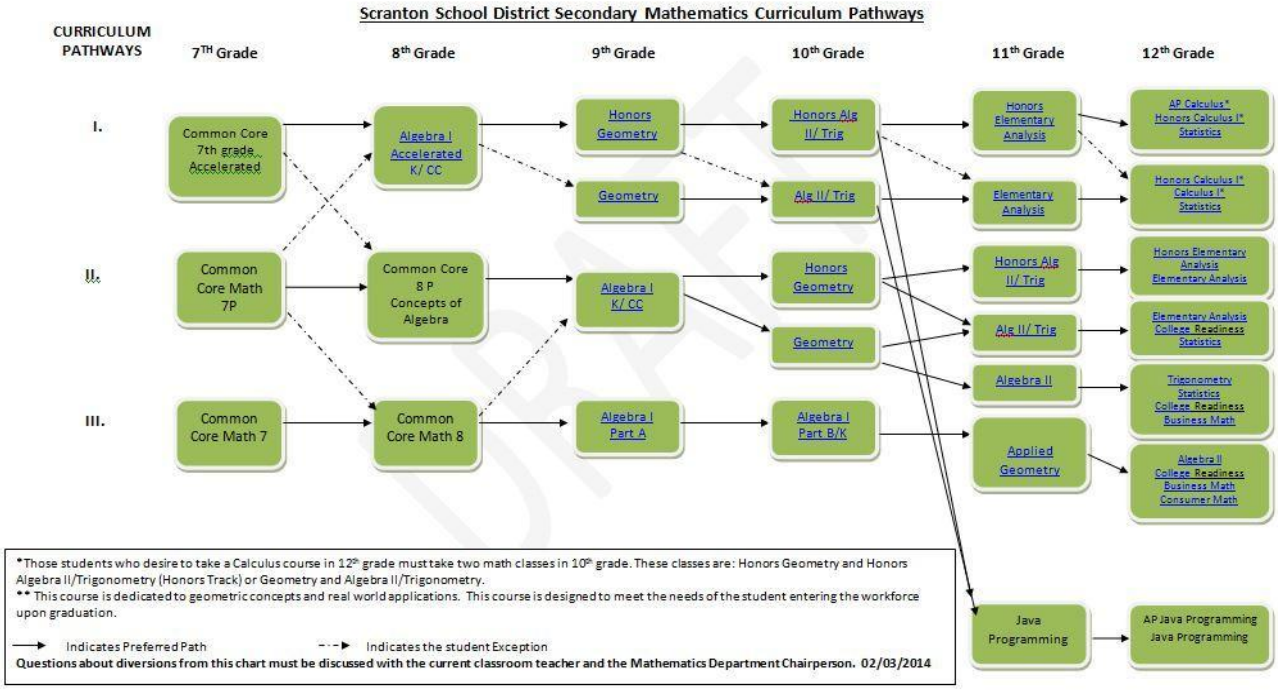
ENGLISH LANGUAGE ARTS PATHWAY

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE



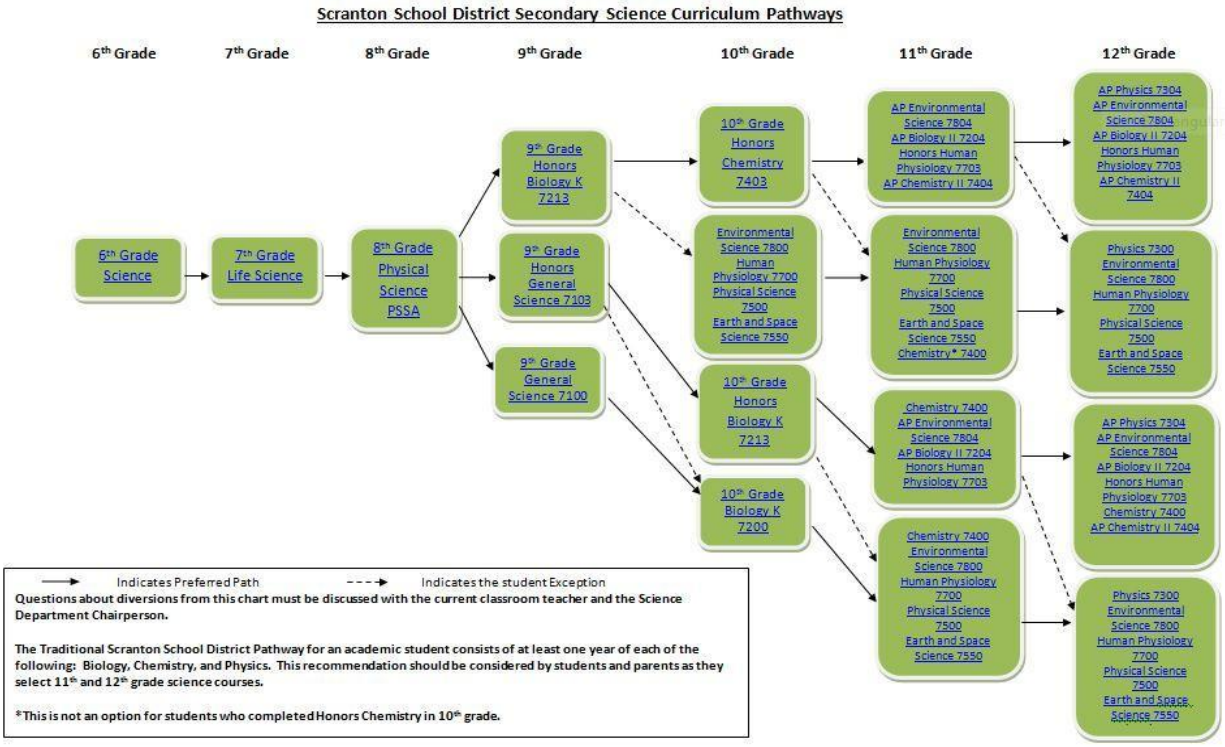
MATH PATHWAY

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE



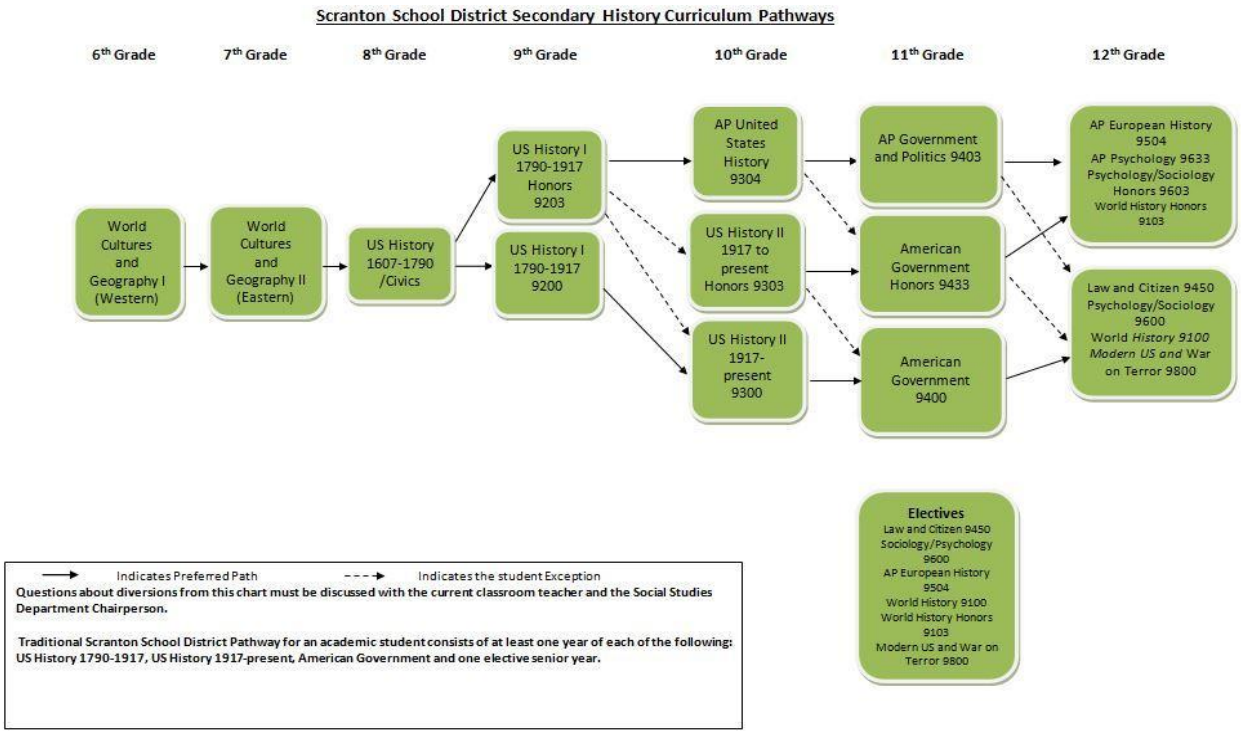
SCIENCE PATHWAY

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE



HISTORY PATHWAY

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE



Section III: Course Description by Department

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

ENGLISH

AVERAGE COURSES

English I
English II K
English III
English IV
Career and College Readiness
Creative Writing
Journalism
Speech and Drama I
TV Production
Native Spanish I
Native Spanish II
Native Spanish III
Native Spanish IV

ABOVE AVERAGE COURSES

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Advanced Composition
Speech and Drama II
Speech and Drama III
Speech and Drama IV

HONORS/ADVANCED PLACEMENT COURSES

Honors English I
Honors English II
Honors English III
Honors English IV
Advanced Placement English Literature

SEQUENCE OF SUBJECT AREA OFFERINGS BY GRADES (9-12)

Grade 9	Grade 10	Grade 11	Grade 12
English I	English II K	English III	English IV
English I Honors	English II Honors *K	English III Honors	English IV Honors
Speech and Drama	Speech and Drama I	Advanced Composition	AP English Literature and Composition
Native Spanish I	Speech and Drama II	Career and College Readiness	Advanced Composition
	Native Spanish I	Creative Writing	Career and College Readiness
	Native Spanish II	Journalism	Creative Writing
		Speech and Drama I	Journalism
		Speech and Drama II	Speech and Drama I
		Speech and Drama III	Speech and Drama II
		TV Production	Speech and Drama III
		Native Spanish I	Speech and Drama IV
		Native Spanish II	TV Production

		Native Spanish III	Native Spanish I Native Spanish II Native Spanish III Native Spanish IV

Individual Course Descriptions

English I	Course Code:	8110
Prerequisites: Successful completion of eighth grade English	Course Credits:	1
English I presents the techniques and strategies useful in reading, writing, listening, speaking, and literary analysis. Study will include a survey of short stories, poetry, drama, and a novel. There will be an infusion of nonfiction analysis throughout each genre. Students will also develop written communication skills focusing on the expository essay. Vocabulary, grammar, critical thinking, and discussion skills are all built into the course.		

English I Honors	Course Code:	8113
Prerequisites: See Board Approved Criteria for Admission to Honors and AP Courses	Course Credits:	1
This course is similar to English I but content analysis is more rigorous. Students enter this course with a strong foundation in grammar and reading. Grammar is emphasized within students' original writings. Expository writing is emphasized as well as independent understanding of literature. Traditional nonfiction and fiction readings are studied for analysis of author's purpose, writing style, and plot elements. Vocabulary is integrated through the curriculum.		

Native Spanish I	Course Code:	2208

Prerequisites: Students are required to take a placement test for this course.	Course Credits:	1
This class is designed for students who want to enhance their Spanish literacy skills. The course is taught entirely in Spanish and reviews fundamental grammatical concepts, advanced literature topics, and pertinent historical and cultural information.		

Native Spanish II	Course Code:	2209
Prerequisites: Native Spanish I or placement test	Course Credits:	1
This class is truly for bilingual students who want to enhance their Spanish and English literacy skills. This class is taught entirely in Spanish and students analyze grammatical concepts, advanced literature topics, and historical and cultural information.		

Native Spanish III	Course Code:	2210
Prerequisites: Native Spanish II or placement test	Course Credits:	1
This class is an advanced language class designed for native Spanish speakers who wish to further enhance their Spanish and English language through reading, writing, speaking and listening. This class is truly bilingual and content varies based on individual needs. This class is taught in Spanish and students will be able to analyze advanced grammatical concepts in Spanish and English, and recreate historical and cultural information.		

Native Spanish IV	Course Code:	2211
Prerequisites: Native Spanish III or placement test	Course Credits:	1
This course is designed for students who want to continue to become proficient in the English language through reading, writing, speaking and listening. Students will become better prepared for either the work force or college. Students will refine their Spanish and English language skills, making them aware of their bilingual value to society.		

English II K	Course Code:	8120

Prerequisites: Successful completion of English I.	Course Credits:	1
English II K is a survey class that encompasses the analysis of both fiction and nonfiction. Genres to be studied include short stories, poetry, essays, drama, and novels. The class also integrates grammar, vocabulary, and effective verbal and written communication skills in accordance with Pennsylvania Standards. During the course of the year, students will focus on expository and persuasive writing techniques while implementing appropriate MLA conventions.		

English II Honors *K	Course Code:	8123
Prerequisites: Successful completion of Honors English I and Board Approved Criteria for Admission to Honors and AP Courses	Course Credits:	1
This course is similar to English II K, but the analytical depth and rigor of the classes are more intense. Students focus on various genres of literature with strong cultural references. The class also has a heavy emphasis on poetry analysis. Through the readings, students develop their analytical and evaluative skills in alignment with Pennsylvania Standards as well as post secondary requirements.		

Advanced Composition	Course Code:	8550
Prerequisites: Successful completion of English I and English II. Teacher recommendation	Course Credits:	1
The Advanced Composition Course is intended for college bound students who have a solid grasp of expository and persuasive writing. This is a college-aligned course which assumes the student has mastered the five paragraph essay. The Advanced Composition Course focuses on critical reading and analysis and on developing and supporting a thesis in an organized format beyond the five-paragraph essay. This course requires students to communicate effectively through various types of written discourse emphasizing appropriate style and voice as well as the conventions of standard English and citation. The course also requires students to analyze, to generate and to edit pieces of written work that parallel pre-collegiate and collegiate level assignments.		

English III	Course Code:	8130

Prerequisites: Successful completion English II.	Course Credits:	1
English III continues to build on the foundations of analytical reading, written discourse and effective mechanics and conventions of written and verbal communication through a survey of primarily American Literature. Work in the area of composition goes beyond the essay to include a research paper documented in MLA style. Students are introduced to major American writers and movements through a chronological study beginning with the earliest settlers and continuing to the present time. Poetry, short stories, novels, plays, and essays representative of the various time periods and/or movements are studied. This exposure is intended not only to show how American Literature evolved, but also to give the student an appreciation for American literary masters and draw connections to United States History and politics. Students will have experiences with both MLA and APA forms of citation in preparation for post-secondary education.		

English III Honors	Course Code:	8133
Prerequisites: Successful completion of English II Honors and Board Approved Criteria for Admission to Honors and AP Courses	Course Credits:	1
Through a study of various genres, accelerated students will examine the development of American Literature from Puritanism to the contemporary era, including Romanticism, Transcendentalism, Realism, and Modernism. Students are expected to read analytically and independently. Writing practice focuses primarily on critical analysis of literary texts and poetry while the research paper brings together library and research skills in a fully documented and fully developed paper. Students will have experiences with both MLA and APA forms of citation in preparation for post-secondary education. Vocabulary and conventions of language receive continued emphasis throughout the year. Honors students are also expected to participate in class discussions daily, maintain a strong work ethic, and complete all assignments.		

English IV	Course Code:	8140
Prerequisites: Successful completion of English III.	Course Credits:	1
English IV includes a review of the fundamentals of grammar and then delves more deeply into areas such as agreement, sentence structure and usage, and the nuances of the written language in preparation for career and college readiness. Vocabulary lessons are also structured throughout		

the year. Literature analysis focuses on major British writers and movements through a chronological study beginning with the earliest inhabitants through the present day. A variety of genres including poetry, drama, essays, novels, and short stories are studied. This exposure is intended to demonstrate how British literature evolved, and also to give the student an appreciation for British literary masters, and to draw connections to cultural and historical references. Students will have experiences with both MLA and APA forms of citation in preparation for post-secondary education.

English IV Honors	Course Code:	8143
Prerequisites: Successful completion of English III Honors. and Board Approved Criteria for Admission to Honors and AP Courses	Course Credits:	1

Focusing on the survey of major British work, this course is fundamentally the same as English IV; however, it is distinguished by a more intensive academic approach. Students are expected to read and to write analytically and independently. Writing practice focuses primarily on critical analysis of literary texts and poetry on an advanced level. Vocabulary and conventions of language and grammar receive continued emphasis in preparation for career and college readiness. In addition, students will have experiences with both MLA and APA forms of citation in preparation for post-secondary education. Honors students are expected to participate in class discussions daily, to maintain a strong work ethic, and to complete all assignments.

Career and College Readiness	Course Code:	8520
Prerequisites: Successful completion of English I and English II	Course Credits:	1

The Career and College Readiness Course intends to prepare students for the rigors of college level reading, writing, listening, speaking, and critical thinking for post-secondary education and employment. The focus will be on analyzing a variety of reading material for the author's purpose, tone, and organization. Using multi-genre texts, students will annotate, infer, draw conclusions, and detect relationships between generalizations and supporting details. In addition, students will focus on public speaking and various forms of communication including the integration of current technology and media.
This course will enhance students' critical analysis and written discourse through a strong focus on the synthesis and production of various rhetorical strategies for composition, including the resume and other business writing. Through the writing process, students will refine topics, develop and support ideas; investigate, evaluate, and incorporate appropriate resources; edit for effective style and usage; and determine appropriate approaches for a variety of contexts,

audiences and purposes particularly in the business sector. The usage of technology for research, writing and presentation will be on-going.

Journalism	Course Code:	8400
Prerequisites: Successful completion of English I and English II	Course Credits:	1
Journalism is designed to give high school students exposure to the various ways the working journalist communicates with an audience. Combining the history of journalism with the practical demands of the field today, the course provides the student with the opportunity to learn about the requirements of various jobs in mass communications. Students will model their work after practicing journalists and also write and design their own tri-fold brochures. Independent research and writing will be developed with an emphasis on specific interests such as Sports Writing, News, Feature and Headline/Caption Writing, as well as Photography, and Broadcast Journalism.		

Creative Writing	Course Code:	8500
Prerequisites: Successful completion of English I and English II	Course Credits:	1
Creative Writing is an elective course available to juniors and seniors interested in writing original poetry, plays, essays, short stories, and creative nonfiction. Students will develop a sense of speaker and audience while using their own experiences, observations, judgments, and imaginations as sources for their writing. They will provide positive support to their peers while learning to revise their work using concrete, sensory details and appropriate choice of diction, syntax, purpose, and audience. Students may submit their written work to the school literary magazine.		

Television Production	Course Code:	8700
Prerequisites: Successful completion of English I and English II	Course Credits:	1
Television Production is a complex creative process in which people and machines interact to bring a variety of messages and experiences to an audience. Students have the opportunity to understand the creative process by working at all the various positions within the crew structure. Thus, they must be allowed to come to grips with the complexity of the ongoing production		

sequence. Television production is not only concerned with the techniques of production but also with the disciplines of television production; those important professional attitudes and behaviors are responsibility, integrity, respect, motivation, and hard work. Elements of television production include but are not limited to: camera techniques, production aspects, analog and digital editing, audio, lighting and much more. Every production element requires hands-on application to become proficient.

Advanced Placement English Literature and Composition	Course Code:	8144
Prerequisites: Successful completion of Honors English III and Board Approved Criteria for AP Placement. Evaluation of student writing.	Course Credits:	1

The Advanced Placement English IV course continues the process of the English III honors level course by building on the extensive study of representative American works from various genres and periods including the authors and works suggested in the AP course description. The study of these works involves thoughtful, deep reading, in-depth class discussion of theme, symbolism, figurative language, elements of style, and appreciation of the characteristics of the major genres. The development of writing skills continues with opportunities for in class short analyses, timed analyses based on specific prompts, and out of class annotation and note taking as well as extensive critical analyses. This course covers a variety of historical periods and literary styles in world literature, which range from the Greek epic to the modern novel; early Greek drama to the Theater of the Absurd as well as an extensive study of William Shakespeare. Additionally, poetry is studied through its historical development to its post-modern present. Finally, the short story is traced from its late medieval inception, by Chaucer, to its current state.
The writing component of the curriculum involves teacher instruction that emphasizes organization, support and logical development. Elements of style are emphasized through both peer and timely teacher feedback. Rhetorical devices such as: rhetorical questions, repetition, anecdote and allusion are illustrated by the teacher through literary works studied and in class guided practice. Understanding of literary styles and devices is stressed and reinforced through extensive reading and composition in various formats. In this way, students are prepared to earn from three to six college credits on the National Advanced Placement English Literature and Composition Exam as well as the English Language and Composition Exam.

Speech and Drama I	Course Code:	8310

Prerequisites:	Course Credits:	1
Speech and Drama I is an introduction to speech arts and theater. The primary focus is on public speaking and will include many categories of speech skills including impromptu, informative and persuasive speaking, oral interpretation of prose and poetry, special occasion speeches, and dramatic interpretation. Additionally, students will be introduced to drama through theater games and the study of dramatic literature with a focus on classic American playwrights.		

Speech and Drama II	Course Code:	8320
Prerequisites: Successful completion of Speech and Drama I or permission from the instructor.	Course Credits:	1
Drama II takes a more in-depth look into theater and the craft of the actor. Study of dramatic literature continues as a vehicle for students to begin work on character analysis, motivation, interpretation, staging and blocking through the presentation of monologues and duo scenes. Other topics include Radio Plays, Readers Theater and History of Theater.		

Speech and Drama III (Theater Production)	Course Code:	8330
Prerequisites: Successful completion of Speech and Drama II and permission of the instructor.	Course Credits:	1
Drama III continues work on character creation and play study but expands into theater production with an emphasis on technical aspects. Students will learn about and be involved with main stage production aspects that include make-up, costumes, lights, props, sets, box office and advertising. Other topics include study of varied acting and theater styles including Greek Theater, Shakespearean, Commedia dell'arte and Theater of the Absurd.		

Speech and Drama IV (Advanced Theater Production)	Course Code:	8340
Prerequisites: Successful completion of Speech and Drama III and permission of the instructor.	Course Credits:	1
Drama IV is an introduction to conceptual elements in production. Students will study theater as a creative process with emphasis on the perspectives of the director and designers. Projects will be designed for the specific talents of the group. Students will also work on building an		

individual audition repertoire for postgraduate involvement in theater. Continued study of dramatic literature will focus on contemporary playwrights and current advances in theater.

ENGLISH LANGUAGE DEVELOPMENT

Individual Course Descriptions

Non-Speaker	Course Code:	8606
Prerequisites: A WIDA SCREENER or ACCESS score of 1.0 or less	Course Credits:	1
This course is for ELs with no background in English. The course focuses on assimilating to the American culture with a concentration on basic survival language skills. Students will develop conversation skills and the ability to read signs, menus, and commonly encountered language. Students will gain confidence to interact with English speaking peers.		

Beginner Literature	Course Code:	8601/ 8701
Prerequisites: A WIDA SCREENER or ACCESS score of 1.1-2.4	Course Credits:	1
This course is an introduction to reading for literal comprehension. Students will build from reading short paragraphs to short stories. Accuracy and fluency will foster confidence to carry over into content classes where students will begin to read aloud. Students will work to identify who, what, when, where, and why as well as character, setting, and plot.		

Beginner Reading, Writing, and Language	Course Code:	8602/ 8702
Prerequisites: A WIDA SCREENER or ACCESS score of 1.1-2.4	Course Credits:	1

This is an introduction for ELs which focuses on the ability to read and write letters, blends, words, phrases, and basic sentences. Students will learn word forms, spelling rules, phonetics, and basic grammar. Students will improve reading speed and accuracy while developing basic comprehension skills.

Intermediate Literature	Course Code:	8603/ 8703
Prerequisites: A WIDA SCREENER or ACCESS score of 2.5-4.0	Course Credits:	1
This course mirrors the mainstream English classroom in genre and through adapted content. Students gain literal and figurative comprehension skills while exploring short stories, poems, dramas, and adapted novels. An introduction to literary elements as they elevate fiction will occur. Students will begin to connect self-to-text through metacognition.		

Intermediate Reading, Writing, and Language	Course Code:	8604/ 8704
Prerequisite: A WIDA SCREENER or ACCESS score of 2.5-4.0	Course Credits:	1
This is a continuation and expansion of concepts learned in Beginner. A focus on utilizing basic reading strategies will provide for comprehension improvement. Vocabulary will develop through grammatical focus on word form and word parts. Students will improve literal comprehension, participate in class discussions, and write in response to reading. Fiction and non-fiction selections are analyzed for plot elements and author's purpose.		

Advanced Literature	Course Code:	8605
Prerequisites: A WIDA SCREENER or ACCESS score of 5.0 or less; Basic on Keystone Literature	Course Credits:	1
This course prepares, in conjunction with core English classes, students for higher education. The material and presentation mirror the mainstream English classroom. Students will explicate adapted works from the cannon. They will learn the characteristics of the different types of literature including but not limited to: non-fiction, fiction, dramas, myths, legends, and poems. They will identify the author's purpose and parts of a plot.		

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Response to literature will occur fostering class discussion and debate as well as high order thinking.

Advanced Reading, Writing, and Language	Course Code:	8705
Prerequisites: A WIDA SCREENER or ACCESS score of 5.0 or less; Basic on Keystone Literature	Course Credits:	1
This course is an expansion and development of content presented in Intermediate ELD. Students will improve literal and symbolic comprehension skills working to understand, analyze, discuss, and respond to texts and conversations. Students will identify essential literary devices within texts and use higher order critical thinking skills to explicate materials.		

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

SOCIAL STUDIES

SOCIAL STUDIES

Within our school programs, Scranton School districts' Social Studies curriculum provides coordinated and systematic studies that draw upon such disciplines as psychology, sociology, economics, geography, American, World, and European history, United States Government, law, and sociology, as well as appropriate content from the humanities, mathematics, and natural sciences. The primary purpose of social studies is to help young people make informed and reasoned decisions for the public good as citizens of a culturally diverse, democratic society in an interdependent world.

AVERAGE COURSES

World History
United States History I
United States History II
Law and the Citizen
Psychology/Sociology
World Geography/Affairs

ABOVE AVERAGE COURSES

United States Government/Law
Modern US and War on Terror (CYBER Option)

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

HONORS COURSES /ADVANCED PLACEMENT COURSES

World History Honors
United States History I Honors
United States History II Honors
Modern US and War on Terror Honors
United States Government/Law Honor
Advanced Placement United States History/Politics
Advanced Placement Psychology
Advanced Placement European History

SEQUENCE OF SUBJECT AREA OFFERINGS BY GRADES (9-12)

Grade 9	Grade 10	Grade 11	Grade 12
*United States History I *United States History I Honors	*United States History II *United States History II Honors Advanced Placement US History	United States Government United States Government//Law Honors Law and the Citizen Psychology/Sociology Advanced Placement European History Modern US and the War on Terror Modern US and the War on Terror Honors Advanced Placement Government and Politics World History World History Honors	Law and the Citizen Advanced Placement European History Psychology/Sociology Modern US and the War on Terror (CYBER Option) Modern US and the War on Terror Honors World History World History Honors Advanced Placement Psychology

*Denotes required course for graduation

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Individual Course Descriptions

World History		Course Code:	9100
Prerequisites: United States History I and II		Course Credits:	1

World History is a survey elective course taught primarily to seniors with a focus on European History from the Renaissance (1350) to World War II (1945). Major themes covered in the course include the political, economic, religious, social, intellectual, and artistic developments during these six centuries. Students through class discussion, document examination, and research will develop the skills needed to evaluate primary historical source materials. This course will emphasize the development of critical thinking and writing skills to prepare the student for life after high school. Students engaged in this course will gain a greater appreciation of the world around them and the issues countries have faced and dealt with in the past.

World History Honors	Course Code:	9103
Prerequisites: United States History I and II	Course Credits:	1

World History Honors focuses on a challenging in-depth study of the world's major cultural areas focusing on Europe from the Renaissance to World War II. 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.

United States History I	Course Code:	9200
Prerequisites: Completion of middle school history requirements.	Course Credits:	1

United States History I: 1790-1917, focuses on the time period of United States History from the year 1790 to the year 1917. Topics covered include: The Origins of American Politics, Western Expansion, The Civil War, Reconstruction, Growth of American Industry, Imperialism, Progressivism and a brief Introduction to World War I.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

United States History I Honors	Course Code:	9203
Prerequisites: Completion of middle school history requirements, and standard district honors criteria	Course Credits:	1
United States History I Honors: 1790-1917 Honors, provides an in-depth and analytical perspective of United States History from the year 1790 to the year 1917. Topics covered include: The Origins of American Politics, Western Expansion, The Civil War, Reconstruction, Growth of American Industry, Imperialism, Progressivism and America's involvement in World War I.		

United States History II	Course Code:	9300
Prerequisites: United States History I	Course Credits:	1
United States History II will provide students with the material to understand and review the key concepts from the start of World War I through the year 2000. It will cover key events, people, laws, international affairs, and social concepts that have shaped the US through today. The curriculum was developed as a foundation that students will build upon as they progress through high school.		

United States History II Honors	Course Code:	9303
Prerequisites: United States History I and Standard district honors requirements	Course Credits:	1
United States History II 1917 – Present Honors will provide students with the material to understand and review the key concepts from the start of World War I through the year 2000. It will cover key events, people, laws, international affairs, and social concepts that have shaped the US through today. As an honors class, the material will be more rigorous and the assessments will require more critical thinking, writing skills, and the ability to relay retained information in a more in depth manner. The curriculum was developed as a foundation that students will build upon as they progress through high school.		

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Advanced Placement United States History	Course Code:	9304
Prerequisites: United States History I and Standard district AP requirements	Course Credits:	1

The AP US History course focuses on developing students' understanding of United States History from approximately 1491 to the present. The course has students investigate the content of U.S. history for significant events, individuals, developments, and processes in nine historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past. All activities are organized around AP U.S. History's seven major themes—Identity (ID); Work, Exchange and Technology (WXT); Peopling (PEO); Politics & Power (POL); America in the World (WOR); Environment and Geography–Physical & Human (ENV); and Ideas, Beliefs and Culture (CUL)—and are designed to develop the student's historical thinking skills. AP U.S. History is designed to be the equivalent of a two-semester introductory college or university U.S. history course.

United States Government /Politics	Course Code:	9400
Prerequisites: United States History I & II	Course Credits:	1

United States Government /Politics 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, as well as Constitutional and federal law. Current events at the federal. State and local levels are featured

United States Government /Politics Honors	Course Code:	9433
Prerequisites: United States History II	Course Credits:	1

United States Government /Politics Honors is an in-depth study of the nature and 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.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

AP United States Government/ Politics	Course Code:	9403
Prerequisites: United States History II and Standard district AP requirements	Course Credits:	1

A well-designed AP course in United States Government and Politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. While there is no single approach that an AP United States Government and Politics course must follow, students should become acquainted with the variety of theoretical perspectives and explanations for various behaviors and outcomes. Certain topics are usually covered in all college courses. The following is a discussion of these topics and some questions that should be explored in the course. It is strongly recommended that students have Honors or AP English placement.

Students successfully completing this course will:

1. Students will know important facts, concepts, and theories pertaining to U.S. government and politics.
2. Students should understand typical patterns of political processes and behavior and their Consequences: (including the components of political behavior, the principles used to explain or justify various government structures and procedures, and the political effects of these structures and procedures)
3. Students will be able to analyze and interpret basic data relevant to U.S. government and Politics: (including data presented in charts, tables, and other formats)
4. Students will be able to critically analyze relevant theories and concepts, apply them appropriately, and develop their connections across the curriculum.

Law and Citizen	Course Code:	9450
Prerequisites: United States History II	Course Credits:	1

Law and Citizen is a study of law, the legal system, and how it applies to society. Topics include but are not limited to criminal, civil, juvenile and constitutional law. It will provide new information, advice, and competency building activities designed to provide students with the ability to analyze, evaluate, and resolve legal disputes. This course will deal with the most current law-related public issues including gangs, guns, computer crime and non judicial forms of dispute resolution.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Psychology/ Sociology	Course Code:	9600
Prerequisites: United States History II	Course Credits:	1
Sociology explores the nature and the 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, and the study of the brain, major psychological research and major psychological theories.		

Psychology AP	Course Code:	9605
Prerequisites: United States II and standard district honors requirements	Course Credits:	1
Psychology AP explores the nature and the 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, and the study of the brain, major psychological research and major psychological theories. This course differs from Psychology/Sociology in the scope and depth accorded to each topic and the nature of student assessment and the assignment of special projects.		

Advanced Placement Psychology	Course Code:	9605
Prerequisites: United States History II and standard district AP requirements	Course Credits:	1
AP Psychology is a full-year course designed to provide students with a broad overview of the diverse field of psychology and prepare students for the AP Psychology Exam. The purpose of AP Psychology is to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. In order to achieve these goals, the majority of class time will be devoted to lectures, discussions, and extensive review sessions. However, time will also be allocated for demonstrations, experiments, and class activities; the content of which may or may not be covered in the text.		

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Advanced Placement European History	Course Code:	9504
Prerequisites: United States History II and standard district AP requirements	Course Credits:	1
AP European History is a rigorous course that furnishes a basic narrative of events and movements in European History from the late middle ages until the present. It prepares students for the demands of college and provides them with experience in college level reading, writing and responsibility. In this course students will investigate the broad themes of intellectual, cultural, and political history. This course will also focus on economic history and the role of industrialization by reviewing the role of commercial practices and changing economic structures to recognize Europe's influence on the world.		

Modern US and War on Terror/CYBER Option	Course Code:	9800/9804
Prerequisites: United States History I & II	Course Credits:	1
This class covers the important events that have shaped the United States from the end of World War II through the War on Terror. Topics discussed include Kennedy's presidency and assassination, Vietnam, the Gulf War and the history of terrorism through the present day. This class is intended for anyone with an interest in history and those that are considering pursuing history in some facet in the future.		

Modern US and War on Terror Honors	Course Code:	9803
Prerequisites: United States History I& II and standard district honors requirements	Course Credits:	1
This is a college-level class that is an in-depth analysis of the important events that have shaped the United States from the end of World War II through the War on Terror. Topics discussed include Kennedy's presidency and assassination, Vietnam, the Gulf War and the history of terrorism through the present day. This class is intended for motivated honors students. It also provides a valuable companion to students that are enrolled in AP US History.		

World Geography/Affairs	Course Code:	9700
Prerequisites: United States History I & II	Course Credits:	1

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

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 this course is to develop an understanding of geography, and how it has played a major role in the movement and settlement of the people of the earth. Emphasis is placed on the geography of North, Central and South America and Europe.

MATHEMATICS

MATHEMATICS

In addition to instructing students in the fundamentals of secondary level mathematics, our mathematics courses call on students to practice applying mathematical ways of thinking to real world issues and challenges; they prepare students to think and reason mathematically. Courses set a rigorous definition of college and career readiness by demanding that students develop a depth of understanding and ability to apply mathematics to novel situations. Using the Pennsylvania Core Standards for Mathematics, we emphasize practicing applying mathematical ways of thinking to real world issues and challenges.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

ABOVE AVERAGE COURSES

Elementary Analysis
Calculus
Statistics
Computer Science

AVERAGE COURSES

Algebra I
Algebra I Part A/B
Geometry
Applied Geometry 12
Consumer Rel Math
Alg. II/Trigonometry
Business Math
College Readiness
Trigonometry
Algebra II

HONORS/ADVANCED PLACEMENT COURSES

Calculus AP
Computer Science AP
Geometry Honors
Algebra II/Trig Honors
Elementary Analysis Honors
Calculus Honors

SEQUENCE OF SUBJECT AREA OFFERINGS BY GRADES (9-12)

Grade 9	Grade 10	Grade 11	Grade 12
Algebra I Part A	Algebra I Part B	Algebra II	Applied Geometry 12
Algebra I *K/CC	Geometry	Computer Science	Consumer Math
Geometry	Geometry Honors	Algebra II/ Trigonometry	Business Math
Geometry Honors	Algebra II / Trigonometry	Algebra II/ Trig Honors	College Readiness Mathematics
	Algebra II/Trig Honors	Elementary Analysis	Algebra II
		Elementary Analysis Honors	Trigonometry
		Computer Science	Statistics
			Elementary Analysis
			Elementary Analysis Honors
			Calculus
			Calculus Honors
			Calculus AP

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

			Computer Science Computer Science AP

*Course selection should be made according to the Board approved Mathematics Curriculum Pathways. There may be a rare grade level exception for a very few students as indicated on the Scranton School District Secondary Mathematics Curriculum Pathways document.
*Selection for Honors/AP courses will be based on the Board approved District Honors/AP Criteria rubric.

Individual Course Descriptions

Algebra I K/CC	Course Code:	3210
Prerequisites: *Successful completion of Common Core 8P Concepts of Algebra	Course Credits:	1
Algebra I establishes strong algebraic thinking and problem solving skills necessary for further work in mathematics. This course involves working with abstract expressions, using mathematical models to represent real-world problems, and solving open sentences. Topics presented in this course include but are not necessarily limited to structure and properties of the real number system, algebraic notation including radicals, exponents, absolute value, varied means for analyzing and expressing patterns, relations and functions including words, tables, graphs, sequences, solving and graphing linear equations, quadratic equations, systems of equations and inequalities, polynomials and operations with polynomials including factoring, data analysis, probability and problem solving strategies. At the culmination of this course, the students will sit for the Keystone Algebra I Exam, a Pennsylvania graduation requirement. After successfully completing this course, students will be allowed to enroll in Geometry.		

Algebra I Part A	Course Code:	3010
Prerequisites: *Successful completion of Common Core Math 8.	Course Credits:	1
Algebra I Part A and Algebra I Part B/K together create an Algebra I course taken over two years. The students who select Algebra I Part A in ninth grade will complete their studies of Algebra I when they complete the Algebra I Part B/K course in tenth grade. These Algebra courses are designed for students who may experience difficulty with a one year Algebra I course Topics covered focus on the Pennsylvania Common Core Standards and are parallel to the		

Algebra I course, presenting all the same major topics but with a different depth, breadth, and pace, thus allowing time for discovering and understanding basic concepts.

At the culmination of the Algebra I Part B/K, the students will sit for the Keystone Algebra I Exam, a Pennsylvania graduation requirement. After successfully completing the course, students will be allowed to enroll in Applied Geometry 12.

Algebra I Part B K/CC	Course Code:	3020
Prerequisites: *Successful completion of Algebra I Part A	Course Credits:	1

Algebra I Part A and Algebra I Part B/K together create an Algebra I course taken over two years. The students who select Algebra I Part A in ninth grade will complete their studies of Algebra I when they complete the Algebra I Part B/K course in tenth grade. These Algebra courses are designed for students who may experience difficulty with a one year Algebra I course Topics covered focus on the Pennsylvania Common Core Standards and are parallel to the Algebra I course, presenting all the same major topics but with a different depth, breadth, and pace, thus allowing time for discovering and understanding basic concepts.

At the culmination of the Algebra I Part B/K, the students will sit for the Keystone Algebra I Exam, a Pennsylvania graduation requirement. After successfully completing the course, students will be allowed to enroll in Applied Geometry 12.

Geometry	Course Code:	3300
Prerequisites: *Successful completion of Algebra I	Course Credits:	1

Geometry is the course students take after Algebra I. This course is designed to emphasize the study of the properties and applications of common two and three dimensional geometric figures. This course formalizes what students have learned about geometry in the middle grades, with a concentration on mathematical reasoning, including exposure to formal proofs. Topics covered focus on the Pennsylvania Common Core Standards and include, but are not limited to: coordinate geometry, perimeter, area, surface area and volume, congruent and similar triangles, right triangles, quadrilaterals, and circles. After successfully completing Geometry, students will be allowed to enroll in Algebra II or Algebra II/Trigonometry.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Geometry Honors	Course Code:	3303
Prerequisites: *Successful completion of Algebra I, or Algebra I Accelerated *Be in compliance with the SSD Honors and AP Criteria Policy	Course Credits:	1

Honors Geometry follows Algebra I, and is designed to emphasize the study of the properties and applications of common two and three dimensional geometric figures. The honors class is taught at a faster pace, thus allowing time for more difficult problems and concepts. This course formalizes what students have learned about geometry in the middle grades, with a concentration on mathematical reasoning and formal proofs. Topics covered focus on the Pennsylvania Core Standards and are parallel to the Geometry course, presenting all the same major topics except with more rigor.

After successfully completing the course, students will be allowed to enroll in Honors Algebra II/ Trigonometry or Algebra II/Trigonometry.

Applied Geometry 12	Course Code:	3306
Prerequisites: *Algebra I Part A and Part B	Course Credits:	1

Applied Geometry 12 is a course for students who may experience difficulty with a Geometry course. It is designed to emphasize the study of the properties and applications of common two and three dimensional figures. This course formalizes what students have learned about geometry in the middle grades, with a concentration on real world applications. Topics covered focus on the Pennsylvania Common Core Standards and are parallel to the Geometry course, presenting all the same major topics but with a different depth, breadth, and pace, thus allowing time for discovering and understanding basic concepts.

Algebra II	Course Code:	3220
Prerequisites: *Successful completion of Geometry or Applied Geometry 12	Course Credits:	1

Building on their work with linear and quadratic functions, students will extend their repertoire of functions to include polynomial, rational, radical, exponential, and logarithmic functions. Students will work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the

properties of logarithms. Other topics that are included in this course are arithmetic and geometric sequences, probability, permutations, and combinations. After successful completion of this course, the students may enroll in Trigonometry, thus essentially completing an Algebra II/Trigonometry class in two years, as well as other mathematics courses.

Algebra II/Trigonometry	Course Code:	3500
Prerequisites: *Successful completion of Honors Geometry or Geometry. *Student must have earned an 80% or better final average in both the Algebra I and Geometry courses previously taken	Course Credits:	1

Algebra II/Trigonometry Honors	Course Code:	3503
Prerequisites: * Successful completion of Geometry or Honors Geometry *Be in compliance with the SSD Honors and AP Criteria Policy	Course Credits:	1

Building on their work with linear and quadratic functions, students will extend their repertoire of functions to include polynomial, rational, radical, exponential, and logarithmic functions. Students will work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. Other topics that are included in this course are arithmetic and geometric sequences, probability, permutations, and combinations. A study of the conic sections and their graphs will also be included. Building on their previous work with functions, and on their work with trigonometric ratios and circles in Geometry, students now use the coordinate plane to study angles in standard position and understand radian measure. The trigonometric functions, their graphs, and identities will be explored. This course is part of an accelerated curriculum in mathematics beginning with Algebra I in eighth grade so that the students, after successful completion of this course, will have the opportunity to progress to Honors Elementary Analysis and Advanced Placement Calculus.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Elementary Analysis	Course Code:	3600
Prerequisites: *Successful completion of Algebra II/Trigonometry	Course Credits:	1
Elementary Analysis is an advanced course in mathematics. The major topics in this course are quadratic equations, coordinate geometry, polynomial algebra, theory of equations, inequalities, functions, exponents, advanced graphing techniques, conics, trigonometry and its applications, polar coordinates, vector operations, series, matrices, and probability. After successful completion of this course the students will be allowed to enroll in Calculus or Calculus Honors if the Scranton School District Criteria for enrollment in Honors classes is met.		

Elementary Analysis Honors	Course Code:	3603
Prerequisites: *Successful completion of Honors Algebra II/Trigonometry *Be in compliance with the SSD Honors and AP Criteria Policy	Course Credits:	1
Honors Elementary Analysis is an advanced course in mathematics. The major topics in this course are quadratic equations, coordinate geometry, polynomial algebra, theory of equations, inequalities, functions, exponents, advanced graphing techniques, conics, trigonometry and its applications, polar coordinates, vector operations, series, matrices, and probability. After successful completion of this course the students will be allowed to enroll in Honors Calculus I or AP Calculus if the Scranton School District Criteria for enrollment in Advanced Placement classes is met.		

Calculus I	Course Code:	3640
Prerequisites: *Successful completion of Elementary Analysis or Honors Elementary Analysis	Course Credits:	1
Calculus I is a high level mathematics course offered by the Scranton School District. Topics covered in this course include analytic geometry, limits of functions, differentiation and integration of functions, and applications of differentiation and integration. The work covered in this course will help the student develop analytical reasoning skills and disciplined study habits necessary for success in college. Students pursuing college majors requiring advanced mathematics courses will benefit from this advanced mathematics training.		

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Calculus I Honors	Course Code:	3643
Prerequisites: *Successful completion of Elementary Analysis or Honors Elementary * Be in compliance with the SSD Honors and AP Criteria Policy	Course Credits:	1
Honors Calculus I is a high level mathematics course offered by the Scranton School District. It is very rigorous and taught at the college level. Topics covered in this course include analytic geometry, limits of functions, differentiation and integration of functions, and applications of differentiation and integration. The work covered in this course will help the student develop analytical reasoning skills and disciplined study habits necessary for success in college. Students pursuing college majors requiring advanced mathematics courses will benefit from this advanced mathematics training.		

Advanced Placement Calculus	Course Code:	3644
Prerequisites: * Successful completion of Honors Elementary Analysis * Be in compliance with the SSD Honors and AP Criteria Policy	Course Credits:	1
Advanced Placement Calculus is the highest level mathematics course offered by the Scranton School District. It is very rigorous and taught at the college level. Topics covered in this course include analytic geometry, limits of functions, differentiation and integration of functions, and applications of differentiation and integration. The Advanced Placement Calculus course prepares students to take the Advanced Placement Calculus Examination in May of their senior year, thus affording these students the opportunity to do college level work and earn college credit while still in high school. This course will challenge even the most capable of mathematical minds. The work covered in this course will help the student develop analytical reasoning skills and disciplined study habits necessary for success in college. Students pursuing college majors requiring advanced mathematics courses will benefit from this advanced mathematics training		

Statistics	Course Code:	3650
Prerequisites: *Successful completion of Algebra II	Course Credits:	1

Statistics is a course designed to provide students with the fundamental principles of probability and statistics with applications. Topics covered include probability models, combinations, discrete and continuous probability, estimating and testing, and confidence intervals. Students who plan to pursue a non-technical or liberal arts course of study will find this course useful.

Business Math	Course Code:	3700
Prerequisites: * Successful completion of Geometry or Applied Geometry 12	Course Credits:	1
This course is dedicated to real world applications of Algebra Concepts. As such, nearly every problem is a word problem. This course is designed to expose students to the facets of running their own business including but not limited to Banking, Payroll, Taxes, Insurance, Managing People, Managing Inventory, Managing Business Costs and Marketing.		

College Readiness Mathematics	Course Code:	3704
Prerequisites: *Successful completion of Geometry or Applied Geometry 12	Course Credits:	1
College Readiness Math consists of two college level math courses offered in partnership with Luzerne County Community College. The first semester will be a lab-based course where students will use the MyMathLab online system for all assignments. **MAT050-Fundamentals of Arithmetic** is designed to provide the student with basic computational skills; specifically addition, subtraction, multiplication, and division of whole numbers, fractions, and decimals. Additional course content includes a review of ratio and proportion, percents, English and Metric Systems of Measurement, and basic geometric concepts. Second semester will align with **MAT101-Survey of Mathematics**, intended to meet minimum college requirements in mathematics, explores the role of mathematics in modern culture emphasizing techniques and applications in the social, natural, and management sciences, as well as those in technological fields. Topics studied include: number theory, set theory, logic, consumer math, geometry, graph theory, probability and statistics. Students will earn 3 credits from LCCC upon successful competition.		

Trigonometry	Course Code:	3540
Prerequisites: *Successful completion of Algebra II, Geometry, Algebra I	Course Credits:	1

This course enables students to understand trigonometric principles and to be able to apply them in various fields of mathematics. The topics include a study of functions of angles of any size, radian measure, trigonometric equations, identities, graphing of trigonometric functions, solution of triangles, and the use of various trigonometric formulas.

Consumer and Related Math	Course Code:	3430
Prerequisites: *Successful completion of Geometry or Applied Geometry 12	Course Credits:	1
This course is dedicated to real world applications of basic math concepts. This course is designed to expose students to facets of running their own household and prepare them for College Accuplacer and ASVAB tests.		

Computer Science	Course Code:	3900
Prerequisites: *Successful completion of an Algebra II/Trig and a Geometry course	Course Credits:	1
A computer program is a set of instructions that tell a computer how to accomplish a given task. Computer programming is the art and science of planning and writing computer programs. This course is designed to introduce students to the process of computer programming. Students will learn fundamental concepts of computer programming using the programming language JAVA. During the year, students will learn to write JAVA programs to solve a variety of interesting and useful problems, some of which may include the use of graphics and game playing. By the end of the course, students will have acquired enough knowledge and skill to plan and develop programs for their own use. This course also provides a foundation for further study in computer programming. Students who do well in mathematics and have a possible interest in pursuing careers in any math or science related area should consider taking this course.		

Advanced Placement Computer Science	Course Code:	3904
Prerequisites: * Successful completion of Computer Science * Be in compliance with the SSD Honors and AP Criteria Policy	Course Credits:	1
This course is designed for the student who has successfully completed Computer Science by the end of the 11th grade. The Computer Science AP course is an introductory course in computer science. Because the design and implementation of computer programs to solve problems		

involve skills that are fundamental to the study of computer science, a large part of the course is built around the development of computer programs that correctly solve a given problem. These programs should be understandable, adaptable, and, when appropriate, reusable. At the same time, the design and implementation of computer programs is used as a context for introducing other important aspects of computer science, including the development and analysis of algorithms, the development and use of fundamental data structures, the study of standard algorithms and typical applications, and the use of logic and formal methods. In addition, the responsible use of these systems is an integral part of the course.

The necessary prerequisites for entering the Computer Science AP course include knowledge of basic algebra and experience in problem solving. A student in the Computer Science AP course should be comfortable with functions and the concepts found in the uses of functional notation, such as $(x)=x+2$ and $f(x) = g(h(x))$. It is important that students and their advisers understand that any significant computer science course builds upon a foundation of mathematical reasoning that should be acquired before attempting such a course.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

SCIENCE

SCIENCE

AVERAGE COURSES

9th Grade General Science

10th Grade Biology K
Chemistry
Environmental Science

Earth and Space Science

Human Physiology
Physical Science
Physics

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

HONORS COURSES

9th Grade Honors General Science
9th Grade Honors Biology K
10th Grade Honors Biology K
Honors Chemistry
Honors Human Physiology

ADVANCED PLACEMENT COURSES

AP Biology
AP Chemistry
AP Environmental Science
AP Physics 1

SEQUENCE OF SUBJECT AREA OFFERINGS BY GRADES (9-12)

Grade 9	Grade 10	Grade 11	Grade 12
General Science	Biology I	Biology AP	Biology AP
General Science Honors	Biology I Honors	Chemistry	Physics
			Physics AP
Biology I Honors	Chemistry Honors	Chemistry AP	Chemistry
	Environmental Science	Physical Science	Chemistry AP
	Human Physiology	Earth and Space Science	Physical Science
	Physical Science	Human Physiology	Earth and Space Science
	Earth and Space Science	Human Physiology Honors	Human Physiology
		Environmental Science	Human Physiology Honors
		Environmental Science AP	Environmental Science
			Environmental Science AP

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Individual Course Descriptions

General Science (Grade 9)	Course Code:	7100
Prerequisites: Completion of 8th grade physical science	Course Credits:	1
9th Grade General Science is designed to be a survey course of the main branches of science offered at the high school level. Students will be introduced to basic concepts in Chemistry, Physics, Earth and Space Science, Biology, and Environmental Science. The course meets five class periods per week. The curriculum was developed as a foundation that students will build upon as they progress through high school.		

General Science Honors (Grade 9)	Course Code:	7103
Prerequisites: Completion of 8th grade physical science with teacher recommendation for honors	Course Credits:	1
9th Grade Honors General Science is designed to be a survey course of the main branches of science offered at the high school level. Students will be introduced to basic concepts in Chemistry, Physics, Earth and Space Science, Biology, and Environmental Science. The course meets five class periods per week. The curriculum was developed as a foundation that students will build upon as they progress through high school. The honors curriculum is designed to prepare students with a solid background for future Honors and AP Science courses.		

Biology I Honors (Grade 9) *K	Course Code:	7213
Prerequisites: 8th Grade Physical Science Teacher recommendation	Course Credits:	1
9th Grade Honors Biology K is an honors level Biology Keystone course designed to prepare students for proficient and advanced scoring on the Keystone Biology Exam. This course is designed to provide a better understanding of the biological world. General areas of study include chemical basis for life, bioenergetics, homeostasis and transport, theory of evolution, photosynthesis and respiration, and genetics.		

10th Grade Biology K	Course Code:	7200
Prerequisites: • Successful completion of General Science	Course Credits:	1

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

10th Grade Biology K is designed to prepare students for proficient and advanced scoring on the Keystone Biology Exam. This course is designed to provide a better understanding of the biological world. General areas of study include chemical basis for life, bioenergetics, homeostasis and transport, theory of evolution, photosynthesis and respiration, and genetics.

Biology I Honors (Grade 10) *K	Course Code:	7213
Prerequisites: 9th Grade Honors General Science be in compliance with the SSD Honors and AP Criteria Policy	Course Credits:	1
10th Grade Honors Biology K is an honors level Biology Keystone course designed to prepare students for proficient and advanced scoring on the Keystone Biology Exam. This course is designed to provide a better understanding of the biological world. General areas of study include chemical basis for life, bioenergetics, homeostasis and transport, theory of evolution, photosynthesis and respiration, and genetics.		

Chemistry	Course Code:	7400
Prerequisites: • Biology, concurrent with Algebra II	Course Credits:	1
This is a college preparatory chemistry course that is taken usually in grade 11. It is taken with or after Algebra II. This course prepares students for the first semester of a typical college course by covering chemical concepts and problem-solving skills. These concepts include but are not limited to measurements and calculations, the mole, atomic structure and the arrangement of electrons in atoms, the periodic law, chemical bonding, chemical formulas and chemical compounds, chemical equations and reactions, stoichiometry, gases, and solutions. This class meets six periods a week, including one double period for chemistry lab. Students are required to complete experiments and write lab reports.		

Chemistry Honors (Grade 10) (Listed as 10th Grade Honors Chemistry on the Secondary Science Curriculum Pathway)	Course Code:	7403
Prerequisites: • Honors Biology, Geometry • Be in compliance with the SSD Honors and AP Criteria Policy	Course Credits:	1

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

10th Grade Honors Chemistry is offered in grade 10 for students who have successfully completed Honors Biology in grade 9. Students selecting 10th Grade Honors Chemistry should have a strong interest in the sciences and must possess excellent mathematical ability. 10th Grade Honors Chemistry is the first part of a two year Chemistry program designed to prepare students for the AP Chemistry Exam in grade 11. The course was designed to cover the material presented in the first semester of a typical college course. Topics include but are not limited to measurements and calculations, matter, atomic structure, periodic law, chemical bonding, chemical formulas and compounds, chemical equations and reactions, stoichiometry, gases, solutions, and acids and bases. The class meets five periods a week. Although 10th Grade Honors Chemistry does not have a dedicated lab period, students are required to complete lab activities with lab reports. The class covers the same content as the grade 11 Chemistry course but features an accelerated pace to complete the required work in 40 fewer periods per year.

AP Biology	Course Code:	7204
Prerequisites: • 10th Grade Biology K • Be in compliance with the SSD Honors and AP Criteria Policy	Course Credits:	1

The AP Biology course is designed to be the equivalent of a college level introductory biology course. The intent of the course is to expose students to higher level biological principles, concepts, and skills and allows the students the opportunity to apply their knowledge to real life applications. Rather than learning from a micro level outward, students learn from a macro level inward. Students are expected to learn through content and concept application via the AP Biology science practices, not by memorization of facts. Core concepts called *enduring understandings* and their application via the science practices are the basis of the AP Biology curriculum. These concepts are organized around biological principles called *big ideas* that permeate the entire course and focus on the following topics:

- Evolution
- Biological systems using energy to maintain homeostasis for survival
- Passing heritable information to provide continuity of life
- Interaction of biological systems with biotic and abiotic factors

AP Chemistry	Course Code:	7404
Prerequisites: • Honors Chemistry • Be in compliance with the SSD Honors and AP Criteria Policy	Course Credits:	1

AP Chemistry is offered in grades 11 or 12 for students who have successfully completed Chemistry Honors in grade 10. Students selecting AP Chemistry should have a strong interest in the sciences and must possess excellent math ability. AP Chemistry is the second part of a two year course designed to prepare students for the AP exam in Chemistry. The AP Chemistry curriculum was written to include a brief review of concepts covered in Honors Chemistry and then quickly progress to cover material presented in the second semester of a college course in Chemistry. Topics include but are not limited to chemical equations and reactions, aqueous solutions and colligative properties, advanced bonding concepts, thermochemistry, rate of reaction, gaseous equilibria, acid-base equilibria, and precipitation equilibria, spontaneity of a reaction, electrochemistry, nuclear reactions, and organic chemistry. The class meets seven periods each week. Students are required to complete weekly experiments and lab reports. The AP Chemistry course is designed around the six **"Big Ideas"** and seven **"Science Practices"** identified by the College Board in the AP Chemistry Curriculum Framework.

AP Environmental Science	Course Code:	7804
Prerequisites: • Successful completion of Algebra and Biology, Honors Biology, or AP Biology • Be in compliance with the SSD Honors and AP Criteria Policy	Course Credits:	1

AP Environmental Science is an advanced interdisciplinary course that prepares students for the Advanced Placement Exam. The students will understand the interrelationships of the natural world, identify and analyze environmental problems, and evaluate the relative risks of and possible solutions for these problems. It is a full year course designed to fulfill the requirements of a one semester introductory college course in environmental science and frequently draws from a wide variety of fields including geology, biology, environmental studies, chemistry, geography and environmental science. This course is designed to be rigorous and the laboratory/fieldwork is a fundamental part of our studies. The recurring themes that we will investigate throughout the course are how science is a process that constantly changes the way we understand the world and that energy conversions are intrinsic to all ecological processes. Students are encouraged throughout the course to consider scientific principles and disciplines when completing activities, and laboratory and/or fieldwork. All laboratory/fieldwork includes an analysis and interpretation component.
The goal of this course is to provide students with the skills needed to methodically identify and analyze environmental issues both natural and anthropogenic, evaluate the risks correlated to these issues, examine alternative solutions to resolve or prevent them, and objectively and adequately evaluate research to develop their own informed views on these issues.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

AP Physics	Course Code:	7304
Prerequisites: • Algebra II/Trig • Be in compliance with the SSD Honors and AP Criteria Policy	Course Credits:	1

AP Physics 1 is a full year, algebra-based physics course, equivalent to the first semester of a typical introductory, algebra-based college physics course. It meets for 46 minute periods each day for the entire school year with additional weekly laboratory periods. The students will participate in inquiry-based explorations to gain a more conceptual understanding of physics concepts. Students will spend less of their time in traditional formula-based learning and more of their effort will be directed to developing critical thinking and reasoning skills. The AP Physics course is designed around the six **"Big Ideas"** and seven **"Science Practices"** identified by the College Board in the AP Physics Curriculum Framework that bring together the fundamental science principles and theories of general physics. These big ideas are intended to encourage students to think about physics concepts as interconnected pieces of a puzzle. The solution to the puzzle is how the real world around them actually works. The seven **"Science Practices"** combine with **"Essential Knowledge"** to create **"Learning Objectives"** which provide clear and detailed articulation of what students should know and be able to do.

Earth and Space Science	Course Code:	7550
Prerequisites: • Successful completion of General Science and Biology I.	Course Credits:	1

The tenth, eleventh or twelfth grade elective Earth and Space Science course is designed to provide students with an understanding of the matter, the energy, and the processes involved in the origin, formation, location, structures, and functions of the Earth's major spheres. General topics of study include the Earth as a system, models of the Earth, Earth chemistry, rocks and minerals, resources and energy, geological processes, weather, climate, the solar system, and the universe. Earth and Space Science is a full year course.

Environmental Science	Course Code:	7800
Prerequisites: • General Science and Biology	Course Credits:	1

Environmental science is a one credit course designed to further develop students' knowledge and skills that apply to major environmental science concepts. Upon successful completion of

the course, students will have a working knowledge of the course content and be able to apply this knowledge and skill set to demonstrate an understanding of a variety of environmental concepts. In particular, a major focus of this course is the interrelationships of humans and the natural world. In addition, students should be able to analyze environmental issues, their proposed solutions, and the importance of studying these issues.

Human Physiology	Course Code:	7700
Prerequisites: • 10th Grade Biology K or 9th or 10th Grade Honors Biology K	Course Credits:	1
This course seeks to prepare young men and women for careers in the Health Fields. It is an intense curriculum which exposes the student to detailed anatomy and the intricacies of the physiological mechanisms that occur within the framework of the human body. This course will concentrate on the body at a microscopic level moving on to individual systems including the skeletal, muscular, nervous, endocrine, reproductive, digestive, respiratory, Integumentary, cardiovascular, lymphatic, immune systems and urinary systems. The laboratory experience may include microscope work, simulated blood work and urinalysis, and dissections such as the fetal pig. There is also a research component to allow further depth into the diseases and disorders of each system.		

NAF Human Physiology	Course Code:	7700NAF
Prerequisites: • 10th Grade Biology K or 9th or 10th Grade Honors Biology K	Course Credits:	1
This course seeks to prepare young men and women for careers in the health fields. The focus of this course is to expose students to detailed anatomy and the intricacies of the physiological mechanisms that occur within the framework of the human body. This course will concentrate on the body at a microscopic level moving on to individual systems including the skeletal, muscular, nervous, endocrine, reproductive, digestive, respiratory, Integumentary, cardiovascular, lymphatic, immune systems and urinary systems. Students will complete two projects and two final exams administered through NAF, which leads to placement in a healthcare field internship.		

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Human Physiology Honors	Course Code:	7703
Prerequisites: • 10th Grade Biology 1 K or 9th or 10th Grade Honors Biology K • Be in compliance with the SSD Honors and AP Criteria Policy	Course Credits:	1
This course seeks to prepare young men and women for careers in the Health Fields. It is an intense curriculum which exposes the student to detailed anatomy and the intricacies of the physiological mechanisms that occur within the framework of the human body. This course will concentrate on the body at a microscopic level moving on to individual systems including the skeletal, muscular, nervous, endocrine, reproductive, digestive, respiratory, Integumentary, cardiovascular, lymphatic, immune systems and urinary systems. The laboratory experience may include microscope work, simulated blood work and urinalysis, and dissections such as the fetal pig. There is also a research component to allow further depth into the diseases and disorders of each system. The Honors level class provides a more in-depth analysis at an accelerated pace.		

Physical Science	Course Code:	7500
Prerequisites: • Successful completion of general science and biology courses. • Students should also possess solid math skills.	Course Credits:	1
Physical Science provides a basic understanding of physics and chemistry related concepts. Students learn to develop problem solving skills and strategies that are related to students' interests and that address everyday problems. Topics include, but are not limited to: introductory science skills and concepts, properties of matter, atoms and molecules, chemical elements, chemical reactions, Newton's Laws, motion and force, work, energy and momentum, and thermodynamics. These areas require a limited amount of mathematics. Although Physical Science is not a laboratory course, some exploratory activities are used.		

Physics	Course Code:	7300
Prerequisites: • Students who enroll in Physics should have successfully completed Geometry and should be currently taking at least Algebra II/Trigonometry or an equivalent mathematics course. • Students who select Physics should possess strong mathematical abilities and problem solving skills along with mature study skills.	Course Credits:	1

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

The course is designed to prepare students for a first year college physics class. The topics of the course include but are not limited to Newtonian Mechanics, Waves and Optics, Electricity and Magnetism and/or Fluid Mechanics. The class meets six periods a week, which includes one two period lab session. The students are required to complete lab experiments and to submit laboratory reports.

HEALTH/SAFETY AND PHYSICAL EDUCATION

HEALTH, PHYSICAL EDUCATION, & SAFETY (DRIVERS' EDUCATION THEORY)

REGULAR COURSES

All courses offered in the Health, Physical Education, and Safety curriculum are regular courses.

ABOVE AVERAGE COURSES

Health Education I-II NAF Health Careers Exploration Grade 9
Health Education III-IV NAF Global Health Grade 10

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

HONORS/ADVANCED PLACEMENT COURSES-NA

SEQUENCE OF SUBJECT AREA OFFERINGS BY GRADES (9-12)

Grade 9	Grade 10	Grade 11	Grade 12
Physical Education I Health I-II Health I-II NAF – Health Careers Exploration Swim (part of PE I)	Safety – Drivers' Education Theory Health Education III-IV Health III-IV NAF – Global Health Physical Education II	Physical Education III	Physical Education IV

Individual Course Descriptions

Safety – Drivers' Education Theory Grade 10	Course Code:	01220
Prerequisites: None	Course Credits:	.1
	• Meets once a week	
Course description: Students will develop an understanding of the process of applying for and earning a learner's permit and driver's license. Further, students will learn the rules of the road and the theory behind safe driving practices. No behind-the-wheel instruction is offered.		

Health Education I-II Grade 9	Course Code: 0111	01110
Prerequisites: None	Course Credits:	.3
	• Meets three times a week	
Course description: Students develop an appreciation for a number of topics including but not limited to: aspects of health, decision-making, refusal skills & assertiveness, exercise and nutrition, mental and emotional health, sexual health and healthy relationships, and drug & alcohol use and abuse.		

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Health Education III-IV Grade 10	Course Code:	01210
Prerequisites: Health Education I-II	Course Credits:	.2
	• Meets twice a week	
Course description: Aspects of health and quality decision-making are reinforced. New topics include but are not limited to: Sexually Transmitted Diseases/Infections and HIV/AIDS, preventing the spread of communicable diseases, adolescent relationships and responsibilities, preventing abuse & violence, and preparing for adulthood, marriage, & parenthood.		

Health I-II NAF – Health Careers Exploration Grade 9	Course Code:	01110-NAF
Prerequisites:	Course Credits:	.3
	• Meets three times a week	
Course description: Health Careers Exploration is a survey course designed to introduce students to a broad spectrum of health careers. This course covers careers in the 5 pathways: diagnostic services, therapeutic services, health informatics, support services, and biotechnology research and development. Students learn about the educational requirements and the employment and salary outlook for each career. Where possible, students complete hands-on work.		

Health III-IV NAF – Global Health Grade 10	Course Code:	01210-NAF
Prerequisites: Health I-II NAF – Health Careers Exploration	Course Credits:	.2
	• Meets twice a week	
Course description: This course introduces students to public health on a global scale. Students learn what disease is and investigate how it impacts world populations. The relationship between health and socio-economic development is also explored. Strategies include cooperative global efforts among communities and governments regarding intervention strategies to eradicate disease.		

Physical Education I Grade 9 **Physical Education I Grade 9 NAF**	Course Code:	01100 01100NAF
Prerequisites: None	Course Credits:	.2 Note: .15 @SHS

	• Meets twice a week	
Course Description: The program is designed to promote physical fitness and a sense of well-being through a wide variety of both competitive and fitness-related activities. Psycho-Social aspects of competitive sports, teamwork, fair play, and sportsmanship are among the areas of focus. Emphasis is also placed on developing a lifelong appreciation for physical activity and its cognitive and health-related benefits.		

Physical Education II Grade 10 **Physical Education II Grade 10 NAF**	Course Code:	01200 01200NAF
Prerequisites: Physical Education I	Course Credits:	.2
	• Meets twice a week	
Course Description: Course Description: The program is designed to promote physical fitness and a sense of well-being through a wide variety of both competitive and fitness-related activities. Psycho-Social aspects of competitive sports, teamwork, fair play, and sportsmanship are among the areas of focus. Emphasis is also placed on developing a lifelong appreciation for physical activity and its cognitive and health-related benefits		

Physical Education III Grade 11	Course Code:	01301
Prerequisites: Physical Education I, Physical Education II	Course Credits:	1.0
	• Meets five times a week	
Course Description: Course Description: The program is designed to promote physical fitness and a sense of well-being through a wide variety of both competitive and fitness-related activities. Psycho-Social aspects of competitive sports, teamwork, fair play, and sportsmanship are among the areas of focus. Emphasis is also placed on developing a lifelong appreciation for physical activity and its cognitive and health-related benefits		

Physical Education IV Grade 12	Course Code:	01401
Prerequisites: Physical Education I, Physical Education II, Physical Education III	Course Credits:	1.0
	• Meets five times a week	
Course Description: Course Description: The program is designed to promote physical fitness and a sense of well-being through a wide variety of both competitive and fitness-related activities. Psycho-Social aspects of competitive sports, teamwork, fair play, and sportsmanship		

are among the areas of focus. Emphasis is also placed on developing a lifelong appreciation for physical activity and its cognitive and health-related benefits

Swim(SHS only) **Swim NAF(SHS only)**	Course Code:	01230 01230NAF
Prerequisites: Completed as part of PE I	Course Credits:	.05
	• Meets twice a week for 1 quarter	
Course Description: Students learn basic water safety and simple stroke technique. Instruction is adjusted to accommodate beginning swimmers.		

COMPUTER ELECTIVES

BUSINESS DEPARTMENT ELECTIVES

REGULAR COURSES
All courses offered in the Business Department are regular courses.

HONORS COURSES
N/A

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

SEQUENCE OF SUBJECT AREA OFFERINGS BY GRADES (9-12)

Grade 9	Grade 10	Grade 11	Grade 12
0600- Intro to Business 0510-Computer Skills	1410-Business Academic Computers 1411- Accounting I	1414-Graphic Design/Advertising 1300-Principles of Business Management 1412- Accounting II	0810-Small Business Management Plan 1010- Co-op Office Technology 1030- Co-op Office Education

Individual Course Descriptions

Computer Skills	Course Code:	0510
Prerequisites: None	Course Credits:	1

Computer Skills is a course designed for students to expand their prior knowledge of computer applications in either the Google Suite or Microsoft 365. Students will complete more complex problems and activities in word processing, spreadsheets, presentation software, and desktop publishing through drawing. Once software is presented, students will apply their learned skills to real world business applications.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

While working through the curriculum, students will acquire the needed skills and concepts to rigorously gather and prepare a year end project incorporating mastery of all material presented throughout the course.

Introduction to Business	Course Code:	0600
Prerequisites: None	Course Credits:	1

Course description: Introduction to Business provides students with an opportunity to learn the concepts and skills required for success in today's marketplace. The class provides an overview of practical applications that connect students to the business world and allows them to explore the foundations of business operations. The class addresses issues such as the nature of business, types of business, the business environment (legal, social, ethical, and governmental) and factors to consider when starting or choosing a business.

Small Business Management Plan	Course Code:	0810
Prerequisites: None	Course Credits:	1

Course description: The Small Business Management Plan/Developing a Business Plan course is a business elective designed to provide students with an understanding of the role of entrepreneurs in our economy and to let them develop their own business plan in order to start and operate a teen-based business. Guest speakers will address the class periodically and will include successful entrepreneurs, as well as representatives from the Small Business Development Center and the local Chamber of Commerce. Through the use of textbook and integrated hands-on computer projects, the student will learn concepts needed to: start and operate a teen-based business—create a business plan using computer application software—apply the vast array of entrepreneurial skills and knowledge needed to start a real teen-based business—learn the entrepreneurial skills and techniques necessary to allow the start-up business to grow and succeed as a viable business—learn how creativity and marketing enhance the entrepreneur's ability to develop an effective business plan—develop the organizational skills needed in running a business—learn the value of self-discipline, time management skills, and financial skills needed to operate a business successfully. The goals of this course are: to instruct student and to provide them with the skills and knowledge required to start and operate his or her own business, to encourage students to come up with an idea for a start-up business for themselves, and to develop/write a business plan using a prescribed method to accomplish this task, to encourage students to develop the entrepreneurial skills necessary to

own and operate one's own business, and to prepare the student for future study of Business at the college and university level and/or for business ownership.

Co-op Office Technology	Course Code:	1010
Prerequisites: None	Course Credits:	1

Course description: Cooperative Education related class/ Cooperative Education (total four credits-one related class credit and three work experience credits). The Cooperative Education related class is held for Senior Cooperative Education students as the classroom part of the work experience. The Senior year Cooperative Education program has as its primary objective the provision of opportunities for qualified students to select, enter, and progress in a vocation of their choice through on-the-job training which is correlated to classroom instruction relevant to the job experience and to the student's career objective. The topics covered in the classroom include the 37 Capstone Modules designed by the Professional Personnel Development Center, Penn State University. The modules address areas of workplace safety, job interview preparation, interpersonal co-worker skills, tax preparation, and labor law knowledge. The work-related experience is obtained at area offices, as well as food service, retail, and other general business areas. Cooperative Education and the related class are offered and designed for the following important reasons:1. To provide a working laboratory in which students practice their business skills in a realistic business environment. 2. To foster good work habits and attitudes that will help them develop as competent employees. 3. To provide a smooth transition between school and full-time employment or entry into post-secondary education or military. 4. To foster a meaningful working partnership with the components of Cooperative Education: the student, the school, the employer.

Co-op Office Education	Course Code:	1030
Prerequisites: None	Course Credits:	3

Course description: Cooperative Education related class/ Cooperative Education (total four credits-one related class credit and three work experience credits). The Cooperative Education related class is held for Senior Cooperative Education students as the classroom part of the work experience. The Senior year Cooperative Education program has as its primary objective the provision of opportunities for qualified students to select, enter, and progress in a vocation of their choice through on-the-job training which is correlated to classroom instruction relevant to the job experience and to the student's career objective. The topics covered in the classroom

include the 37 Capstone Modules designed by the Professional Personnel Development Center, Penn State University. The modules address areas of workplace safety, job interview preparation, interpersonal co-worker skills, tax preparation, and labor law knowledge. The work-related experience is obtained at area offices, as well as food service, retail, and other general business areas. Cooperative Education and the related class are offered and designed for the following important reasons:1. To provide a working laboratory in which students practice their business skills in a realistic business environment. 2. To foster good work habits and attitudes that will help them develop as competent employees. 3. To provide a smooth transition between school and full-time employment or entry into post-secondary education or military. 4. To foster a meaningful working partnership with the components of Cooperative Education: the student, the school, the employer.

Principles of Business Management	Course Code:	1300
Prerequisites: None	Course Credits:	1

Course description: Principles of Business Management provides students with an opportunity to learn Business Management concepts and principles in a realistic, investigative, and enriching manner. Business operations are approached from the entrepreneurial and management perspective. The class examines key factors of organizations, and the management environment (organizational structure, roles of managers, managing technology and change, global management, and types of organizations). Emphasis is also placed on the interconnectedness of entrepreneurs, consumers, and the government. The class addresses issues such as communication, diversity, motivation, leadership, individual effectiveness, and interpersonal relations. Students learn through hands-on projects and discussion.

Business Academic Computers	Course Code:	1410
Prerequisites: None	Course Credits:	1

Course description: This course, Business Academic Computers, is designed to allow students to become familiar with personal computers. The program is designed to teach through visual input and hands-on experience. The course assumes no previous experience with computers. It is designed with continuity, simplicity, and practicality in mind. A variety of software such as Word, Excel, PowerPoint, and Access are covered. It also includes a history of computers and a study of computer hardware and software.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Accounting I	Course Code:	1411
Prerequisites: None	Course Credits:	1
Course description: Accounting I provides students with a strong foundation in Generally Accepted Accounting Principles (GAAP). Students will learn how to analyze, classify, and record business transactions using a double- entry system (debits and credits). Students will complete an accounting cycle for a service business organized as a sole proprietorship and an accounting cycle for a merchandising business organized as a corporation. Coverage also includes preparation as well as interpretation of financial statements, trial balances, worksheets, special journals, subsidiary ledgers, and adjusting and closing entries.		

Accounting II	Course Code:	1412
Prerequisites: Accounting I	Course Credits:	1
Course description: Accounting II is designed to give students vocational competency beyond that obtained from the study of Accounting I. It includes specialized types of records, more comprehensive treatment for other forms of business ownerships, partnerships, and corporations, and specialized areas of Accounting, departmental, and Cost Accounting. This course is offered and designed for five important reasons: 1. To prepare students for the real Business world by giving them insight into the operation, formation, and internal workings of a Business enterprise. 2. To help students develop habits of accuracy, independent thinking, legibility, neatness, and thoroughness. 3. To help students enhance their knowledge of the subject and reinforce salable skills. 4. To enable the students to analyze financial information and then to complete the Accounting procedures and processes in an accurate and efficient manner. 5. To prepare students to use financial information to evaluate current business operations and to plan for future operation, financial decision making, and growth of a business.		

Graphic Design/Advertising	Course Code:	1414
Prerequisites: Introduction to Business and Accounting I or Business Academic Computers	Course Credits:	1
Graphic Design/Advertising is designed to introduce students to the diverse field of Graphic arts, design principles and advertising in a software based environment. Students will develop skills in design principles, creating digital media, & editing images as part of the creativity process. Students will also learn basic photography skills, such as color scheme and mood, photo		

manipulation, vector based drawing techniques and digital print media using the Adobe creative suite. As a project based course, students will develop and apply skills as they are used in the real world. This course is essential for students interested in commercial or fine art, graphic design, advertising, print media and a wide variety of professional careers that require computer based art creation skills.

FINE ARTS ELECTIVES

VISUAL ARTS AND PHOTOGRAPHY

The Visual Arts and Photography program of the Scranton School District at the high school level is designed for all students who have an interest in investigating and experiencing different techniques based on the principles of art and design. The Arts are an integral part of each student's education. Students are presented with a series of challenges requiring observation, reflection, and experimentation. From these challenges, students develop their own responses to problems and learn to express themselves visually through the art studio process.

AVERAGE COURSES

Art I
Art II
Art III
Art IV
Photography I
Photography II

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

ABOVE AVERAGE COURSES

HONORS/ADVANCED PLACEMENT COURSES

Art Major I
Art Major II
Art Major III
Art Major I

SEQUENCE OF SUBJECT AREA OFFERINGS BY GRADES (9-12)

Individual Course Descriptions

Grade 9	Grade 10	Grade 11	Grade 12
Art I Art Major I	Art II Art Major II	Art III Art Major III Photography I	Art IV Art Major IV Photography II

Art I	Course Code:	6210
Prerequisites: N/A	Course Credits:	1.0
This course is a basic introduction to art materials, techniques and color theory. Students will be able to experiment with various mediums, for example, paint, sculpture and charcoal. The emphasis is placed on developing basic drawing skills and building knowledge of fundamental art principles.		

Art II	Course Code:	6220
Prerequisites: Successful Completion of Art I	Course Credits:	1.0
This course emphasizes and builds upon several different drawing and painting techniques. The student will be introduced to a broader range of art materials and their application. An appreciation and influence of art history will also be included.		

Art III	Course Code:	6230
Prerequisites: Successful completion of Art I, II	Course Credits:	1.0

This course is a continuation of exploration of the principles and elements of design through independent, self motivated projects. This course will include, but will not be limited to, painting, drawing, and 3 dimensional works of art. Quality and craftsmanship of work will be focused on with an emphasis on the students' personal and individual development.

Art IV	Course Code:	6240
Prerequisites: Successful completion of Art I, Art II, Art III	Course Credits:	1.0
This course is directed towards meeting the needs and developing the interest and skills of the individual student. Emphasis is on critical thought and critical inquiry. The student will continue with advanced 2-dimensional and 3-dimensional works of art. Projects will be longer in breadth and scope, with an emphasis on independence.		

Art Major I	Course Code:	6216
Prerequisites: Recommendation of middle school art teacher, open to students earning a grade of 90% or above.	Course Credits:	1.0
This course is designed for students who are able to identify and use basic art materials and techniques. Students will be expected to develop skills in drawing such as rendering techniques, perspective, and color theory. Students will be allowed to experiment with different mediums and are expected to master drawing skills.		

Art Major II	Course Code:	6226
Prerequisites: Successful completion of Art I or Art Major I, grade of 90% and above, and Art Teacher Recommendation	Course Credits:	1.0
This course is designed for students who wish to explore personal expression through art and design. Students will focus on the principles of art and the fundamentals of design while experimenting with different media. This media will include, but is not limited to, drawing, painting, 2d design, and color theory. Throughout this course there will be references to the history of art.		

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Art Major III	Course Code:	6236
Prerequisites: Successful completion of Art II or Art Major II, grade of 90% and above, and Art Teacher Recommendation	Course Credits:	1.0
This course is designed for students who have previous successful completion of Art II or Art Major II. The art major student will focus on building a strong portfolio through teacher guided projects. Art Major III is a student driven, self critiqued course designed to make the student more aware of their art. Projects will focus on elements and principles of design.		

Art Major IV	Course Code:	6246
Prerequisites: Successful completion of Art III or Art Major III, grade of 90% and above, and Art Teacher Recommendation	Course Credits:	1.0
This course is designed for art major students who will be expected to create works of art based on their individual talents. The students will be able to further develop their portfolio and an advanced understanding and appreciation for the arts. Emphasis will be on Art History, teacher prompts and student choice of media.		

Photography I	Course Code:	6250
Prerequisites: Successful completion of Art I or Art Major I	Course Credits:	1.0
This course is intended to introduce the art student to the basics of black and white photography. Students will be exposed to SLR cameras and black and white film. During this course the student will use chemicals to process images and manually print photographs for various projects. Darkroom techniques will be explored and students will be expected to adhere to the procedures, rules and regulations of safe practices while working with chemicals.		

Photography II	Course Code:	6252
Prerequisites: Successful completion of Photography I	Course Credits:	1.0
This course is a continuation of Photography I and is designed for the student who wishes to continue to make photos in the darkroom setting. During this course, the student will be able to create a portfolio demonstrating different photographic techniques. Projects will include, but not		

limited to, night photography, double exposures, portrait, drawing with light, and other advanced techniques of photography with an emphasis on Art History .

MUSIC

MUSIC

Music courses in Band, Strings, Chorus or Music Theory are planned to meet the needs and interests of the student through participation in classroom activities and 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. Therefore, performance participation is to be extremely limited at Level 1 and progress more extensively as the student attains higher levels of standing. In short, participation in public performances must not dictate the program of study but should naturally evolve as a result of the program of study.

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 the achievement in other areas of study.

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.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

In each of the four areas, a multi-level of studies is offered which will provide a firm foundation in a proceeding, progressive sequence of music learning activities.

AVERAGE MUSIC COURSES

Average music courses act as a basic introduction to the chosen discipline. At this level students are taught the fundamentals and basic skills of the chosen area of study. The secondary purpose is to assist students looking to reinforce or relearn basic skills not mastered in the Elementary and/or Intermediate school music programs. This level of study also serves those students that enjoy the study of music but do not wish to pursue music at an advanced level. Average music courses include: Chorus Concert 6510, Beginning Band 6610 and Beginning Strings 6710.

ABOVE AVERAGE MUSIC COURSES

Above Average music courses are designed to give the non-music major in depth and meaningful experiences in the chosen music discipline. In addition, students are expected to further develop their musical knowledge, discipline proficiency and ensemble skills. Above Average music courses offered are as follows: Chorus Chamber 6515, Intermediate Band 6615 and Intermediate Strings 6715.

ADVANCED MUSIC PLACEMENT COURSES

Advanced music courses are designed for students that have a great desire to perform and are proficient in their respective disciplines. These courses further refine musicianship, performance skills and provide potential music majors with sufficient musical understanding for enrollment in college music courses. Advanced music courses offered are: Chorus Show 6520, Advanced Band 6620, Advanced Strings 6720, Music Theory I and Music Theory II.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

SEQUENCE OF MUSIC OFFERINGS BY GRADES (9-12)

Grade 9	Grade 10	Grade 11	Grade 12
Chorus Concert	Chorus Concert	Chorus Concert	Chorus Concert
Chorus Chamber*	Chorus Chamber*	Chorus Chamber*	Chorus Chamber*
Chorus Show*	Chorus Show*	Chorus Show*	Chorus Show*
Beginning Band	Beginning Band	Beginning Band	Beginning Band
Intermediate Band*	Intermediate Band*	Intermediate Band*	Intermediate Band*
Advanced Band*	Advanced Band*	Advanced Band*	Advanced Band*
Beginning Strings	Beginning Strings	Beginning Strings	Beginning Strings
Intermediate Strings*	Intermediate Strings*	Intermediate Strings*	Intermediate Strings*
Advanced Strings*	Advanced Strings*	Advanced Strings*	Advanced Strings*
		Music Theory I**	Music Theory I**
			Music Theory II**

**These courses require teacher recommendation/selection and/or an audition.*
***These courses are specific to the potential college music major. It is highly recommended that students follow the intended 2 year course of study to achieve college preparedness.*

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Individual Course Descriptions

CHORUS CONCERT	Course Code:	6510
Prerequisites: NA	Course Credits:	1.0
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 harmony. Students are required to sing every day. Students learn basic music notation and basic music theory needed to read choral music. Student participation in public performance is not mandated and inclusion in said performance is at the sole discretion of the instructor. Students are graded on participation in class and completion of written music theory assignments.		

CHORUS CHAMBER	Course Code:	6515
Prerequisites: This course requires an audition and/or teacher recommendation.	Course Credits:	1.0
This course continues to develop the singing voice and the ability to sing in three and/or four part harmony. At this level, students are taught to sing choral music encompassing various periods, genres, styles and levels of difficulty. Students continue to learn varying and more advanced elements of music notation and music theory. Students are required to sing in two major public performances (concerts) during the school year. Students are graded on participation in class, public performances and the successful completion of written theory assignments.		

CHORUS SHOW	Course Code:	6520
Prerequisites: This course requires an audition and/or teacher recommendation.	Course Credits:	1.0
Chorus Show is an intense study of both music and dance. Students are taught contemporary choral selections arranged specifically for the ensemble and to be partnered with dance routines taught by the ensemble choreographer. The Chorus Show represents the school performing not only locally, but in competition. In addition, the group continues to develop their traditional stage Chorus technique performing music of varying periods, genres and styles. This course, like all honors courses, requires an immense commitment both during and outside of school. As the final objective of the course is performance, students are required to attend class, all rehearsals and scheduled performances. Students are then graded on classroom participation, attendance at rehearsals and shows/competitions.		

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

BEGINNING BAND	Course Code:	6610
Prerequisites: NA	Course Credits:	1.0

The Beginning Band course is designed to introduce and afford our students the opportunity to play a band instrument. Its secondary purpose is to assist those students looking to reinforce or relearn basic skills not mastered in the Elementary and/or Intermediate school band programs. At this level, students learn basic technique and fundamentals of their chosen instrument as well as basic notation and music theory. Student participation in public performance is not mandated and inclusion in said performance is at the sole discretion of the instructor. Students are graded on participation in class and completion of written music theory assignments.

INTERMEDIATE BAND	Course Code:	6615
Prerequisites: This course requires an audition and/or teacher recommendation.	Course Credits:	1.0

At this level of study, students further develop their playing skills and learn to become a member of the concert band. Students are taught to play concert music encompassing various periods, genres, styles and levels of difficulty. Students continue to learn varying and more advanced elements of music notation and music theory. Students are required to perform in two major public performances (concerts) during the school year. Students are graded on participation in class, public performances and the successful completion of written theory assignments. At this level, students are given the opportunity to become a member of the co-curricular marching band which includes summer band camp, football games and various other functions throughout the year.

ADVANCED BAND	Course Code:	6620
Prerequisites: This course requires an audition and/or teacher recommendation.	Course Credits:	1.0

At this level of study, students must be proficient on their instruments. This course is designed to further refine musicianship and performance skills. Students are taught to play concert music encompassing various periods, genres, styles and levels of difficulty. Students continue to learn varying and more advanced elements of music notation and music theory. Students are required to perform in all scheduled band concerts and rehearsals and may be given the opportunity to perform in smaller ensembles. Students are graded on participation in class, public performances

and the successful completion of written theory assignments. At this level, students are given the opportunity to become a member of the co-curricular marching band which includes summer band camp, football games and various other functions throughout the year.

BEGINNING STRINGS	Course Code:	6710
Prerequisites: NA	Course Credits:	1.0
The Beginning Strings course is designed to introduce and afford our students the opportunity to play a string instrument, namely violin, viola, cello or string bass. Its secondary purpose is to assist those students looking to reinforce or relearn basic skills not mastered in the Elementary and/or Intermediate school string programs. At this level, students learn basic technique and fundamentals of their chosen instrument as well as basic notation and music theory. Student participation in public performance is not mandated and inclusion in said performance is at the sole discretion of the instructor. Students are graded on participation in class and completion of written music theory assignments.		

INTERMEDIATE STRINGS	Course Code:	6715
Prerequisites: This course requires an audition and/or teacher recommendation.	Course Credits:	1.0
At this level of study, students further develop their playing skills and learn to become a member of the string orchestra. Students are taught to play concert music encompassing various periods, genres, styles and levels of difficulty. Students continue to learn varying and more advanced elements of music notation and music theory. Students are required to perform in two major public performances (concerts) during the school year. Students are graded on participation in class performances, public performances and the successful completion of written theory assignments.		

ADVANCED STRINGS	Course Code:	6720
Prerequisites: This course requires an audition and/or teacher recommendation.	Course Credits:	1.0

At this level of study, students must be proficient on their instruments. This course is designed to further refine musicianship and performance skills. Students are taught to play concert music encompassing various periods, genres, styles and levels of difficulty. Students continue to learn varying and more advanced elements of music notation and music theory. Students are required to perform in all scheduled string concerts and rehearsals and may be given the opportunity to perform in smaller ensembles. Students are graded on participation in class, public performances and the successful completion of written theory assignments.

MUSIC THEORY I	Course Code:	6640
Prerequisites: Participation in a performing ensemble.	Course Credits:	1.0

Music Theory I is an introduction to the basic mechanics of music. It is highly recommended for students that plan to continue their musical studies at the university level. Students will be exposed in detail to notation, scales, rhythms and the primary chord progressions. Ear training, sight singing and music history will be introduced as well. In addition, students will be introduced to basic piano keyboard skills that will assist with future study.

MUSIC THEORY II	Course Code:	6640.1
Prerequisites: Students must have successfully completed Music Theory I.	Course Credits:	1.0

Music Theory II is an advanced course in the mechanics of music and a detailed expansion of the material taught in Music Theory I. It is highly recommended for students that plan to continue their musical studies at the university level. The knowledge of notation, scales and chords will be expanded and traditional, choral, four-part composition will be taught. Extensive ear training and sight singing will be presented along with a continuation of functional piano skills. After completion of this class, students may elect to sit for the AP Music Theory Exam.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

WORLD LANGUAGE

FRENCH

The French courses offered by the Scranton School District are designed to help students develop proficiency skills in reading, writing, listening, and speaking of the French language, spoken by more than 300 million people worldwide. The courses are also designed to encourage students to develop an appreciation for French and francophone culture. Knowledge of the French language can lead to careers in teaching, translation, interpretation, travel, tourism, foreign service, international business, and other international careers.

AVERAGE COURSES

French 1
French 2
French 3
French 4

ABOVE AVERAGE COURSES

N/A

HONORS/ADVANCED PLACEMENT COURSES

N/A

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

SEQUENCE OF SUBJECT AREA OFFERINGS BY GRADES (9-12)

Grade 9	Grade 10	Grade 11	Grade 12
French 1	French 1	French 1	French 1
	French 2	French 2	French 2
		French 3	French 3 French 4

French 1 can be taken by students in any grade. In order to take French 2, 3, and 4 students must complete the required prerequisites as listed below.

Individual Course Descriptions

French I	Course Code:	2410
Prerequisites: None	Course Credits:	1
French I is designed to offer the basics of the French language and the French and 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. French and francophone culture is intertwined with lesson content. Students will be able to communicate and interact in simple, social interactions.		

French II	Course Code:	2420
Prerequisites: French 1	Course Credits:	1
French II is designed to expand upon the communicative tasks and skills practiced in French I and to heighten awareness of French and 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. Students will become acquainted with notable cultural and historical French and francophone figures.		

French III	Course Code:	2430
Prerequisites: French 2	Course Credits:	1

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 will expand their critical thinking skills through writing, reading authentic materials, such as newspaper articles or short stories, and expressing opinions.

French IV	Course Code:	2440
Prerequisites: French 3	Course Credits:	1
French IV is designed to offer further study of the French language, literature, and the French and francophone culture. Students of French IV will continue to expand their proficiency in listening, speaking, reading, and writing. 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.		

GERMAN

The German program in the Scranton School District aims to provide students with the foundation for fluency in the German language. Courses address the four disciplines of language: reading, writing, speaking, and listening. Students learn a range of vocabulary in many thematic areas and the 570-430-8944 or skelly@timesshamrock.com.grammar rules needed to express themselves in German. Cultural and historical topics are addressed throughout all levels.

AVERAGE COURSES

AVERAGE COURSES DESCRIPTION

ABOVE AVERAGE COURSES

Not currently available

HONORS/ADVANCED PLACEMENT COURSES

Not currently available

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

SEQUENCE OF SUBJECT AREA OFFERINGS BY GRADES (9-12)

Grade 9	Grade 10	Grade 11	Grade 12
German I	German I German II	German I German II German III	German I German II German III German IV

Students in any grade level can begin German I. The other courses may be taken with the proper prerequisites listed below.

Individual Course Descriptions

GERMAN I	Course Code:	2310
Prerequisites: none	Course Credits:	1
The primary aim of German I is to begin developing the skills of listening, speaking, reading, and writing German, so that students will be able to comprehend and communicate in German at the beginner level. The course will cover the basic features of the sound and writing system, and will present the students with a functional vocabulary of about 800 words. Beyond this initial vocabulary, students will be able to recognize additional words in speech and written texts. The course will introduce the basic grammatical and linguistic structures of everyday German, including present tense, future tense, and all four grammatical cases. These skills will be practiced throughout the course both in written and spoken forms. Beyond language acquisition, the course also educates students about the culture and history of the German-speaking countries – Austria, Switzerland, and Germany. Topics of discussion in this area include holidays, the education system, as well as current events and other historical and contemporary topics.		

GERMAN II	Course Code:	2320
Prerequisites: German I	Course Credits:	1
The primary aim of German II is to continue the development of students' skills of listening, speaking, reading, and writing in German. The goal of the course is for students to be able to comprehend and communicate at the low-intermediate level. The course will build upon the		

grammatical basics acquired in German I, adding past tenses, command structures, and adjective constructions. By the end of the course, students should be able to draw from a vocabulary of around 1,500 words, as well as recognize additional words in speech or written texts. All of these skills will be put to use in spoken and written conversation, creative writing, and reading comprehension. As in German I, the second aim of the German II course is to expand students' knowledge of contemporary life and culture in German-speaking countries. Cultural notes and readings, as well as units about historical and current events will highlight topics of interest in Austria, Germany, Switzerland, and the European Union. Historical topics will include discussion of the World Wars, the Holocaust, the Cold War, the Berlin Wall, and other contemporary issues.

GERMAN III	Course Code:	2330
Prerequisites: German I and II	Course Credits:	1

The aim of the German III course is two-fold. First, students will learn most of the advanced grammatical principles of German. They will improve their knowledge and usage of all past tense constructions and passive voice. Conjunctions will also be introduced with coordinate and subordinate word order. Second, students will improve their communicative skills, learning to initiate conversations and respond in both scripted and unscripted situations. In this process, they will demonstrate increased cultural awareness, 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 through longer and more complicated texts. Through discussion of readings, 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. As with the lower levels, this course seeks to present German cultural contributions and enable the students to engage with the topics in the target language.

GERMAN IV	Course Code:	2340
Prerequisites: German I, II, and III	Course Credits:	1

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 introduce the subjunctive mood, refine the use of adjectives, expand modal verb usage, and strengthen existing grammatical skills. Students will have the opportunity to improve their 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, songs, and portions of longer texts. As their reading skills improve, they will demonstrate increased comprehension and ability to interpret different types of texts. Discussion of cultural and current events topics will continue in this course, introducing related vocabulary as needed.

LATIN

These courses cover Classical Latin circa the 1st century BCE. Latin emphasizes vocabulary development, the study of English words derived from Latin, and analysis of grammatical structure. Other topics covered include Roman history and culture. Course progression provides the opportunity for reading ancient texts by the end of Latin IV.

AVERAGE COURSES

These courses cover Classical Latin circa the 1st century BCE. Latin emphasizes vocabulary development, the study of English words derived from Latin, and analysis of grammatical structure. Other topics covered include Roman history and culture. Course progression provides the opportunity for reading ancient texts by the end of Latin IV.

ABOVE AVERAGE COURSES

ABOVE AVERAGE COURSES DES

SEQUENCE OF SUBJECT AREA OFFERINGS BY GRADES (9-12)

Grade 9	Grade 10	Grade 11	Grade 12
Latin 1	Latin 1 Latin 2	Latin 1 Latin 2 Latin 3	Latin 1 Latin 2 Latin 3 Latin 4

Individual Course Descriptions

Latin I	Course Code:	2110
Prerequisites: None	Course Credits:	1
This class is an entry level course, which provides a sound foundation for the study of classical Latin. Grammar and vocabulary development is the core of instruction. Students will learn the		

conjugation of verbs, active and passive voice, three of the five noun declensions, adjectives, cases, and the present system of verb tenses. Latin derivatives in English are also used to build a better understanding of our modern language, and lessons concerning ancient history will be presented to give the language context.

Latin II	Course Code:	2120
Prerequisites: Latin I	Course Credits:	1

The next level of Latin expands upon the structures and vocabulary development in Latin I by adding on two more noun declensions, participles, and the perfect system of verb tenses. Smaller aspects of grammar, such as irregular words and idioms, will receive greater focus. Students are taught to apply these skills in more advanced readings and translations, which will prepare them to read classic Latin literature in Latin III and IV. Students will also receive further lessons dealing with an appreciation of Roman culture.

Latin III	Course Code:	2130
Prerequisites: Latin II	Course Credits:	1

Latin III emphasizes the advanced grammar, including uses of the subjunctive mood, found in Latin prose. Authentic Latin literature is analyzed through chosen works of Cicero. Other Latin authors of note or interest, such as Seneca and Caesar, will be read as time allows.

Latin IV	Course Code:	2140
Prerequisites: Latin III	Course Credits:	1

Latin IV focuses on the classical epic. Students will read Vergil's *Aeneid* in both original Latin passages and a modern English translation. Other Latin poets, such as Ovid and Horace, will be read as time permits.

SPANISH

The primary aim of Spanish is to develop students' competence in the skills of listening, speaking, reading, and writing Spanish, so that they will be able to communicate successfully in the target language and appreciate cultural differences.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

REGULAR COURSES

Spanish I
Spanish II
Spanish III
Spanish IV

HONORS COURSES

ADVANCED PLACEMENT COURSES

Spanish AP

SEQUENCE OF SUBJECT AREA OFFERINGS BY GRADES (9-12)

Grade 9	Grade 10	Grade 11	Grade 12
Spanish I Spanish II	Spanish I Spanish II Spanish III	Spanish I Spanish II Spanish III	Spanish I Spanish II Spanish III Spanish IV Spanish AP

Students may enter a Spanish I Class at any grade level.

Individual Course Descriptions

Spanish 1	Course Code:	2210
Prerequisites: None	Course Credits:	1.0
Course description: 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 1 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.		

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Spanish II		2220
Prerequisites: Spanish 1	Course Credits:	1.0
Course description: 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. Students who complete Spanish II are prepared to take more complete Spanish courses.		

Spanish III	Course Code:	2230
Prerequisites: Spanish II	Course Credits:	1.0
Course description 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. The teacher's instruction is primarily in Spanish and students are required to speak Spanish as well.		

Spanish IV/AP	Course Code:	2240/2260
Prerequisites: Spanish III	Course Credits:	1.0
Course description 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. Spanish IV students further enhance and develop these skills through the study of advanced grammatical structures, enhanced vocabulary acquisition, the reading and analysis of literature in Spanish, and cultural awareness of current events.		

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

FAMILY AND CONSUMER SCIENCE

FAMILY AND CONSUMER SCIENCE

REGULAR COURSES

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
PARENTING
FAMILY LIVING

HONORS COURSES
N/A

ADVANCED PLACEMENT COURSES
N/A

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

SEQUENCE OF SUBJECT AREA OFFERINGS BY GRADES (9-12)

Grade 9	Grade 10	Grade 11	Grade 12
Family and Consumer Science Rotation	Family and Consumer Science Rotation		
	Foods II	Foods II Foods III	Foods II Foods III Foods IV
	Clothing Design and Construction II	Clothing Design and Construction II Clothing Design and Construction III	Clothing Design and Construction II Clothing Design and Construction III Clothing Design and Construction IV
		Parenting	Parenting
		Interior Decorating Family Living	Interior Decorating Family Living

Individual Course Descriptions

Family and Consumer Science Rotation	Course Code:	4001
Prerequisites: None	Course Credits:	1.0

This is an introductory and foundational course which allows students the opportunity to explore each of the above topics by rotating every marking period during the year. Students will be able to meet our different faculty members as they rotate each marking period to a different topic and teacher.

Foods I prepare students with basic nutrition of the six major nutrients, the establishment of good eating habits from early childhood, food knowledge and preparation techniques, food and kitchen safety and teamwork.

Teen Development focuses on self awareness, communication skills, personal values, peer pressure, types of families and child care.

Clothing I allows students to learn basic hand sewing methods, button replacement and hemming skills. Personal care and laundry care are also covered in the clothing class.
Consumer Education introduces students to checking and savings accounts, budgeting, credit card knowledge, comparison shopping, warranties, advertising techniques, stocks and bonds.

Foods II	Course Code:	4320
Prerequisites: Family and Consumer Science Rotation	Course Credits:	1.0

Foods II students meet daily for the full year with one teacher. This course concentrates on the importance of nutrition and wellness plus the six major nutrients and My Pyramid. They will learn various preparation skills and techniques. An academic classroom environment supplements the hands-on food lab setting. Students learn home food preparation techniques, savvy supermarkets shopping techniques and proper meal planning ideas. Seasonal recipes are featured throughout the year.

Foods III	Course Code:	4330
Prerequisites: Foods II	Course Credits:	1.0

Foods III students meet daily for the full year with one teacher in both the academic classroom and the foods lab. Students will learn higher level food preparation skills and techniques which are built upon from Foods II. Foods customs, cultures, and U.S. regional cuisine is explored. Students will work with food combinations and will be challenged to prepare healthy meals. These students will be introduced to food related health issues. Students will learn about various foods related careers. They will study environmental conservation method and how food preparation impacts our environment.

Foods IV	Course Code:	4340
Prerequisites: Foods III	Course Credits:	1.0

This course is the culmination of a four year study of foods, nutrition, and wellness. Students will learn various culinary skills and techniques necessary to successfully complete high end, complicated recipes. They will also learn about commercial food preparation and the necessary laws, regulations and equipment found in restaurants, hospitals, and other commercial food

settings. Topics include knife skills, garnishes, home and restaurant, utensils and equipment. Nutrition and wellness for the family is reviewed.

Clothing Design and Construction II	Course Code:	4420
Prerequisites: Family and Consumer Science Rotation	Course Credits:	1.0

Clothing Design and Construction is a basic course in clothing, selection, care and construction of a pattern. The major areas covered in this course include clothing selection, clothing care according to fabric content, choosing a garment, pattern selection, pattern terms, pattern symbols, determine fabric needed for a pattern, choosing a pattern layout, transferring pattern markings, methods of pattern construction and pattern alteration. This course is designed to give students a broad, basic background in the importance of clothing wardrobe assessment, color choices, fibers, fabric finishes and caring for clothes. Craft skills are introduced with all of the notions and equipment needed.

Clothing Design and Construction III	Course Code:	4430
Prerequisites: Clothing Design and Construction II	Course Credits:	1.0

Clothing Design and Construction is an elective course offered to provide a more in depth study of fabric, clothing, and craft construction. It is intended for students who have prior experience in sewing. Topics covered in this course include, but not limited to fiber identification and comparison, careers, credit, principles of design in clothing, color analysis, clothing designers, fashion styles, evolution of fashion, clothing and self expression, and careers in the garment industry.

Clothing Design and Construction IV	Course Code:	4440
Prerequisites: Clothing, Design and Construction III	Course Credits:	1.0

Clothing, Design and Construction IV course is designed to develop a student's individual talent and interest in sewing. Along with the psychology of clothing, the course reviews and reinforces clothing construction techniques and skills already covered in previous FACS course. It also encourages the development of skills such as embroidery, quilting and knitting, and crafts which can be used throughout life for relaxation and enjoyment.

Students will work at their individual pace for complete projects. Careers, money management, and shopping for the family will also be a major part of the course.

Interior Decorating	Course Code:	4100
Prerequisites: None	Course Credits:	
The course Interior Decorating covers three major areas: the home as a living environment, home decoration, and home maintenance. The course addresses topics related to all of these aspects of the home and its furnishings. This course is offered and designed to develop both an understanding of the principles of interior design and a mastery of basic practical skills used in home decoration. Upon completing this course the students acquire skills to determine the best type of housing based on individual needs, decorating their living space, and be able to maintain their home and living spaces.		

Parenting	Course Code:	4050
Prerequisites: None	Course Credits:	1.0
The course in Parenting is offered to better prepare high school students for family life and being parents. The course focuses on the development of a child from conception, to prenatal care, to labor and delivery and care of newborns. There is also a continuous focus on the physical, mental, emotional, and social development of a child centered activities. Current events in Parenting are an important part of the course, with an emphasis on real life skills and use of creative ways to help children learn.		

Family Living	Course Code:	4200
Prerequisites: None	Course Credits:	1.0
Family Living is offered to upperclassmen in order to better prepare students for life away from their traditional home. The course begins with the role of the teenager in society and proceeds through the family life cycle. Course units include: Establishing a Personal Identity, Forming Interpersonal Relationships, Exploring Human Development, Money Management, Foods and Nutrition, and Establishing a Place to Live.		

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

INDUSTRIAL ARTS

INDUSTRIAL TECHNOLOGY

Industrial Technology has an important role to play as part of general education in our modern society. Each day our world welcomes more mechanized and technical with the invention and production of more labor saving devices. Many tradesmen and technicians are needed to install, operate, and service these modern pieces of equipment. Industrial Technology offers the student an opportunity to acquire some insight into various technical and trade areas. Lab or shop classes are not designed to turn out tradesmen or technicians but are for the purpose of acquainting the student with various occupations requiring some type of mental manual skill. Industrial Art class experiences will have carry-over value in later life, in job situations, in consumer knowledge, or possibly in home maintenance.

AVERAGE COURSES

Wood Technology
Drafting
Graphic Arts
Electric

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Technology
Metal

ABOVE AVERAGE COURSES
N/A

SEQUENCE OF SUBJECT AREA OFFERINGS BY GRADES (9-12)

Grade 9	Grade 10	Grade 11	Grade 12
Shop 1 Rotation	Wood 2	Wood 3	Wood 4
	Drafting 2	Drafting 3	Drafting 4
	Electric 2	Electric 3	Electric 4
	Metal 2	Metal 3	Metal 4
	Technology 2	Technology 3	Technology 4
	Graphic Arts 2	Graphic Arts 3	Graphic Arts 4

Individual Course Descriptions

Shop I Rotation	Course Code:	5000
Prerequisites: none	Course Credits:	1.0

Course description
Shop 1 is offered to students who are enrolled in Industrial Technology for the first time. The course covers Woodshop, Metal Shop, Electricity, Drafting, Technology and Graphic Arts and serves as an introduction to all advanced programs in each of the specialties.
The course provides the students with an opportunity to work with stationary machinery, and power hand tools, and hand tools. The students also obtain the necessary knowledge needed to perform and exercise safe and constructive work habits.
Shop 1 as an introductory course, also prepares students with the skills needed to obtain various project levels that are more complex.

Wood II	Course Code:	5520
Prerequisites: Students must complete Shop I	Course Credits:	1.0

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Course description
Wood 2 is offered to students who have an interest in advanced woodworking. The course covers project selection, basic wood joints, machine safety 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 woodworking 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.

Wood III	Course Code:	5530
Prerequisites: Students must complete Wood 2	Course Credits:	C1.0

Course description
The Wood III course in industrial technology has been designed to develop and advance each student's talents and interest in woodworking. Wood 3 is a more advanced study of general woodworking and a continuation of Wood 2. 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 III course places strong emphasis on individual creativity and the development of original design. Wood III is progressive; it recognizes more advanced students must be allowed to strive toward higher skill levels, while those students of lesser ability move at a more moderate pace.

Wood IV	Course Code:	5540
Prerequisites: Students must complete Wood III	Course Credits:	1.0

Course Description
Wood IV is a continuation of Wood 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 Pattern making. Students are also made aware of various technical, trade and vocational schools that are available to them. Woodworking IV focuses on individual design, development, construction, and completion of a major woodworking project. The course also emphasizes basic skills and knowledge in the improvement and maintenance of the home.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Drafting II	Course Code:	5620
Prerequisites: Students must complete Shop I	Course Credits:	1.0
Course description Drafting 2 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.		

Drafting III	Course Code:	5630
Prerequisites: Students must complete Drafting II	Course Credits:	C1.0
Drafting III introduces students to architectural drawing. Students review the principles learned in Drafting II including dimensioning rules and practice problems.		

Drafting IV	Course Code:	5640
Prerequisites: Students must complete Drafting III	Course Credits:	1.0
Drafting 4 begins with a review of Drafting 3. 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 rules, detailed views, section views of the house, and special views of any elaborate features including window and door placement, house rendering and landscaping.		

Electric II	Course Code:	5420
Prerequisites: Students must complete Shop I	Course Credits:	C1.0
Electric II is designed for students who have had very limited experiences in power technology or electricity. It teaches basic electricity through the use of electrical components to construct basic circuits and class projects. Students complete typical projects and solve problems which are encountered in working with electricity. Course content is derived primarily from the fields of electricity, electronics and power mechanics. It gives the student a basic understanding of man's search to extend his physical		

capabilities and his attempts to harness energy found in nature. The basic fundamentals of safe working habits with machinery and electricity will be reviewed during the course.

Electric III	Course Code:	5430
Prerequisites: Students must complete Electric II	Course Credits:	1.0
Electric III is a continuation of Electric II. Students receive in-depth training and problem solving on various electrical circuits and power mechanics. As the student progresses through this program he/she will learn more about operating electrical devices and power technology in the industrial work field.		

Electric IV	Course Code:	5440
Prerequisites: Students must complete Electric III	Course Credits:	1.0
Electric IV is a continuation of Electric III. It is a course for students who wish to enter the power technology and electronic trades after graduation. Successful completion of projects requires a working knowledge of small engine repair and maintenance and an understanding of the use of electrical components to construct electrical circuits.		

Metal II	Course Code:	5820
Prerequisites: Students must complete Shop I	Course Credits:	1.0
The Metal II course provides an exploratory experience using metal. It is designed to provide experiences in metal with the use of hand tools and machines. Those students are required to develop safe work habits, efficient work procedures, and a full understanding of the use of metal tools and machinery. Each metal unit progresses from the use of simple hand tools and tool identification to the more basic machine and engine operations, enabling the student to obtain the necessary information and skills needed to move on to more advanced metalworking. A number of projects such as building a lawnmower engine, are presented to help create interest and contribute to the student's knowledge and skill.		

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Metal III	Course Code:	5830
Prerequisites: Students must complete Metal II	Course Credits:	1.0
Metal III is a continuation of Metal II. The student is given further in-depth training on the various machines he/she has used in Metal II. The student is also introduced to heat treatment and metal finishing and is given the opportunity to explore more complex aspects of metal and small engines.		

Metal IV	Course Code:	5840
Prerequisites: Students must complete Metal III	Course Credits:	1.0
Metal IV is a continuation of Metal III. It is the most advanced metal shop course offered in high school. It is designed for the student who wishes to enter one of the many fields in the metal trades. Successful completion of class projects requires an understanding of complex drafting blueprints and the mastery of all the various hand and stationary power tools used in the metal area and small engines.		

Technology II	Course Code:	5920
Prerequisites: Students must complete Shop I and Algebra I.	Course Credits:	1.0
Technology II, also referred to as Engineering and Design is a very basic introduction to basic industrial technology such as construction, manufacturing, communication and energy power and transportation. Students are introduced to the design build concept through the use of the design process and three hands on design build projects. Students are then introduced to modular technology education study such as CNC, robotics, fluid power, electricity, mechanisms, construction and CAD.		

Technology III	Course Code:	5930
Prerequisites: Students must complete Technology II	Course Credits:	1.0
Technology III follows upon the concepts taught in Technology II emphasizing and reinforcing the design process. This is done through four or five hands on design build projects such as balsa wood bridges and towers. Also, some energy power transportation projects such as Lego		

mechanical engineering as well as some introduction to production technology. Modular technology education work includes all those mentioned in technology, such as CNC, robotics, CAD, fluid power and electricity. The modular work is progressively more serious and demanding. Students do more of an array of assignments that the previous work completed in technology II.

Technology IV	Course Code:	5940
Prerequisites: Students must complete Technology III	Course Credits:	1.0

Technology IV is a follow up course to Technology III. The students will do similar hands-on projects that will be based on the same concepts as the hands-on projects in Technology III. Such concepts include manufacturing, communication, construction, energy power and transportation. The modular work will follow up on those concepts but will focus on more complex knowledge. The modules at this level offer thirty hours of instruction each as compared to ten hours each that is handled in Technology III. The hands-on project work will be correspondingly more demanding. Engineering and design will also be explored with a bit more diligence.

Graphic Arts II	Course Code:	5720
Prerequisites: Students must complete Shop I	Course Credits:	1.0

The Graphic Arts II course is designed to give the student a basic insight and working knowledge in the silk screen and offset printing process as well as an introduction to the basic fundamentals of black & white and digital photography.

Graphic Arts III	Course Code:	5730
Prerequisites: Students must complete Graphic Arts II	Course Credits:	1.0

The Graphic Arts III course is designed to give the student a more intense study of the silk screen, offset printing processes, black & white and digital photography. Basic computer skills for generating photocopy are introduced along with the art of letterpress, flexographic and post printing techniques.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Graphic Arts IV	Course Code:	5740
Prerequisites: Students must complete Graphic Arts III	Course Credits:	1.0
Graphic Arts IV is designed to allow the student to demonstrate competency and a depth of knowledge in the printing processes studied in the previous courses. At this time, students are introduced to the vocational aspects of the graphic arts industry through a series of field trips to local print shops, binderies, and photo studies.		

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Scranton School District
STEMM Academy
at Scranton High School

Pathway Choices
(Selected After 8th Grade)

Engineering
Health Science (Medical)
Computer Science

STEMM ACADEMY

STEM ELA 7	Course Code:	
Prerequisites:	Course Credits:	

This course will target students' growth in the areas of reading, writing, editing, listening, speaking, discussion, and reflection. Reading strategies, critical thinking skills, and vocabulary building comprise the main elements of reading instructions. Through fiction, nonfiction, and poetry reading, students will practice reading strategies and comprehension skills. The focus of writing will be on narrative, informational, argumentative, and research writing. The overall goal of the class is to increase literacy, grade level appropriate vocabulary, and the writing ability of students. This course is aligned with the Pennsylvania Core Content Standards for English Language Arts (CC).

STEM ELA 8	Course Code:	
Prerequisites:	Course Credits:	

This course will target students' growth in the areas of reading, writing, editing, listening, speaking, discussion, and reflection. Reading strategies, critical thinking skills, and vocabulary building comprise the main elements of reading instructions. Through fiction, nonfiction, and poetry reading, students will practice reading strategies and comprehension skills. The focus of writing will be on narrative, informational, argumentative, and research writing. The overall goal of the class is to increase literacy, grade level appropriate vocabulary, and the writing ability of students. This course is aligned with the Pennsylvania Core Content Standards for English Language Arts (CC).

Pre-Algebra 7		

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Prerequisites:	Course Code:	
	Course Credits:	

This course differs from the Common Core Math 7 course in that it contains some content from 8th grade. While coherence is retained, in that it logically builds from the 6th Grade, the additional content when compared to the non-accelerated course demands a faster pace for instruction and learning. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. The critical areas are as follows:

- Students develop a unified understanding of numbers, recognizing fractions, decimals, and percents as different representations of rational numbers.
- Students extend addition, subtraction, multiplication and division to all rational numbers, and view negative numbers in terms of everyday contexts. Students explain and interpret the rules for adding, subtracting, multiplying and dividing with negative numbers. They extend their mastery of the properties of operations to develop an understanding of integer exponents.
- Students use linear equations to represent, analyze, and solve a variety of problems. Students strategically choose and efficiently implement procedures to solve linear equations in one variable.
- Students learn to identify triangles by sides and angles and identify angles formed when parallel lines are cut by a transversal.
- Students will solve problems involving area and circumference of a circle and surface area of three-dimensional objects. They solve real-world and mathematical problems involving area, surface area, and volumes of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms. Students show that the sum of the angles in a triangle is the angle formed by a straight line.
- Students calculate probability of simple and compound events. Students analyze the measures of central tendency to make predictions of a population.
- Students are introduced to the slope intercept form of an equation and use it to graph lines and interpret the equation. After successfully completing the course, students

will be allowed to enroll in Algebra I Accelerated K/CC or Common Core 8P Concepts of Algebra.

Algebra I Accelerated 8	Course Code:	
Prerequisites:	Course Credits:	

The 8th grade Algebra I Accelerated K/CC establishes strong algebraic thinking and problem solving skills necessary for further work in mathematics. This course involves working with abstract expressions, using mathematical models to represent real-world problems, and solving open sentences. Topics presented in this course include but are not necessarily limited to:

- structure and properties of the real number system
- algebraic notation including radicals, exponents, absolute value
- varied means for analyzing and expressing patterns, relations and functions including words, tables, graphs, sequences,
- linear equations
- quadratic equations
- systems of equations and inequalities
- polynomials and operations with polynomials including factoring
- data analysis
- probability
- problem solving strategies

At the culmination of this course, the students will sit for the Keystone Algebra I Exam, a Pennsylvania graduation requirement. Successfully completing Algebra I Accelerated K/CC in eighth grade affords the students the opportunity to study Calculus in their senior year of high school. After successfully
completing this course, students who meet the proper prerequisites will be enrolled in Honors Geometry or Geometry 9 in ninth grad

Concepts of Algebra 8	Course Code:	
Prerequisites:	Course Credits:	

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Students will demonstrate an understanding of the connections between the various branches of mathematics by applying computational skills, mathematical reasoning, and introductory algebraic and geometric principles to model and solve real life problems.

- Students will understand the relationship between lines & linear equations & be able to represent such.
- Students will be able to define, recognize, and evaluate functions.
- Students will demonstrate a proficient understanding of rational and irrational numbers.
- Students will be able to use and understand the Pythagorean Theorem.
- Students will describe the dilations, translations, reflections, and rotations on two-dimensional figures.
- Use statistics and probability to investigate patterns in bivariate data.
- After successfully completing this course, students will be allowed to enroll in Algebra 1 K/CC

World Cultures & Geography II 7	Course Code:	
Prerequisites:	Course Credits:	

Seventh Grade Social Studies is designed to introduce the geography, cultures, governments, history and economics of the East with an emphasis on Africa, Asia and Europe. The curriculum serves as a foundation that students will build upon as they progress through their academic career.

US History (1607-1790)/Civics 8	Course Code:	
Prerequisites:	Course Credits:	

In order to understand our country's origin and evolution, students will study the development of the American Colonies and their fight for independence from England. We will analyze the writings of philosophers such as John Locke and Thomas Hobbes, the contributions of the first representative governments in America such as Jamestown's House of Burgesses, and the impact our struggle for independence from England had on the creation of the Constitution. We will continue with an analysis of the Constitution, our rights and responsibilities as U.S. citizens, and the origins of our political parties. The year will conclude with a unit on local history from 1879 through the 1900s.

Science 7	Course Code:	
Prerequisites:	Course Credits:	

Life Science establishes the study of living things and how they interact with the nonliving world. This course readies students for further, more in-depth studies in the sciences through the establishment of underlying knowledge of living things and their environments. Topics presented in this course include, but are not necessarily limited to, cells, cell parts, cell processes, classification, cell reproduction, genetics, heredity, evolution, and ecology.		

Integrated STEM 7	Course Code:	
Prerequisites:	Course Credits:	
The 7th grade Integrated STEM course encourages students to use inquiry based and problem solving approaches to understand science and engineering principles. By combining traditional science concepts (life science, biology, and environmental sciences) with the application of these concepts through engineering and technology, students will gain a greater understanding of the world around them. Collaborative, student-centered lessons and cooperative learning is essential throughout this course. Students will use evidence as a basis for analysis of data and arguments. Emphasis is on the integration of knowledge from a variety of resources and effective communication of an understanding of this knowledge to meet the performance expectations. This course is aligned with the Pennsylvania Science Technology and Engineering (STEE) Standards.		

Science 8	Course Code:	
Prerequisites:	Course Credits:	
Physical Science is the study of matter, energy, and changes they undergo. The course includes both Chemistry and Physics topics.		

Integrated STEM 8	Course Code:	
Prerequisites:	Course Credits:	
The 8th grade Integrated STEM course encourages students to use inquiry based and problem solving approaches to understand science and engineering principles. By combining traditional science concepts		

(physical science, chemistry, and environmental sciences) with the application of these concepts through engineering and technology, students will gain a greater understanding of the world around them. Collaborative, student-centered lessons and cooperative learning is essential throughout this course. Students will use evidence as a basis for analysis of data and arguments. Emphasis is on the integration of knowledge from a variety of resources and effective communication of an understanding of this knowledge to meet the performance expectations. This course is aligned with the Pennsylvania Science Technology and Engineering (STEE) Standards.

Physical Education / Health 7	Course Code:	
Prerequisites:	Course Credits:	
Provide a comprehensive, and sequential plan that motivates and assists students to develop, maintain, and improve physical health, prevent disease, and reduce health related risk behaviors.		

Physical Education / Health 8	Course Code:	
Prerequisites:	Course Credits:	
Provide a comprehensive, and sequential plan that motivates and assists students to develop, maintain, and improve physical health, prevent disease, and reduce health related risk behaviors.		

Sports Medicine 7	Course Code:	
Prerequisites:	Course Credits:	
This physical education course is designed for students who are interested in health related fields. Students in this course will explore topics related to sports medicine, such as nutrition, anatomy, biomechanics, and exercise physiology in this interactive and hands-on course. Students will also learn about human body systems and how they work to better understand injuries that may occur as well as ways to prevent injury. This course is aligned with Pennsylvania's Health, Safety, and Physical Education standards.		

PLTW Medical Detectives 7	Course Code:	

Prerequisites:	Course Credits:	
In this hands-on course students play the role of real-life medical professionals as they collect and analyze medical data to diagnose diseases. Students will solve medical mysteries through hands-on projects and labs, measure and interpret vital signs, complete a dissection, investigate disease outbreaks, and explore the basics of forensic science, while also learning about various careers within these fields. This course is aligned with the Pennsylvania Science Technology and Engineering (STEE) Standards.		

Video Game Devs 7	Course Code:	
Prerequisites:	Course Credits:	
This computer science course is designed for students who want to learn about computer science through the creative process of how video games are designed and developed, from the moment they are conceived to after they are published. Students will be introduced to the game design process, elements of game play, game documentation, and coding. Students will design and code their own games using block coding programs in this interactive and hands-on course. This course is aligned with the Pennsylvania Science Technology and Engineering Education standards as well as the CSTA standards for Computer Science Education.		

Video Game Devs 7	Course Code:	
Prerequisites:	Course Credits:	
Through the development of mobile applications, students will continue to explore the field of computer science and computational thinking while building on their javascript block coding skills. Students will work collaboratively to design and develop creative and innovative mobile applications, analyze real-time sensor data, and build physical prototypes for hardware based programming. This course is aligned with the CSTA standards for Computer Science Education.		

3D Artists 7	Course Code:	
Prerequisites:	Course Credits:	

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

This course is designed for students who are interested in 3D design. Students will learn the basics of 3D modeling and the geometry of shapes. This includes how to sculpt, texture, arrange, and render 3D models in preparation for 3D printing as well as the basics of drawing and reading schematics. In this interactive and hands-on course, students will work on collaborative projects in a 3D environment following the engineering design process in programs such as TinkerCAD and OnShape. This course is aligned with the Pennsylvania Science Technology and Engineering (STEE) Standards and International Society for Technology in Education (ISTE) standards.

PLTW Green Architecture 8	Course Code:	
Prerequisites:	Course Credits:	
Students learn how to apply green concepts to the fields of architecture and construction. They explore dimensioning, measuring, and architectural sustainability and apply what they have learned to design affordable housing units using Autodesk's® 3D architectural design software.		

SCRANTON CYBER ACADEMY

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

9th Grade Required Courses	10th Grade Required Courses	11th Grade Required Courses	12 Grade Required Courses
English English 1 Core **Social Studies** U.S. to the Civil War **Math** Algebra 1 Part A Algebra 1 Core Geometry Core **Science** Environ. Science Core **Mixed Period** Prin. of Health Sci. **Elective Courses** **Business** Intro to Bus. & Tech. Prin. of Info Tech Prin. Bus/Mktg/Fin **English** Creative Writing Media Literacy **Fine Arts** Art Appreciation **Foreign Languages** Spanish 1	**English** English 2 Core **Social Studies** U.S. Since the Civil War **Math** Algebra 1 Part B Algebra II Core Geometry Core **Science** Biology Core **Mixed Period** HOPE (Health Opportunities through Physical Education **Elective Courses** **Business** Intro to Bus. & Tech. Prin. of Info Tech Prin. Bus/Mktg/Fin Human Resources Principles **English** Creative Writing Media Literacy **Fine Arts** Art Appreciation **Foreign Languages** Spanish 1 Spanish 2	**English** English 3 Core **Social Studies** Geography U.S. Since the Civil War Geography and World Cultures US Govt, Politics and Global Econ Core Psychology/Sociology Modern World History from 1600 Modern World History from 1450 **Math** Consumer Math Statistics & Probability Business Math Algebra II Core Geometry Core Liberal Arts Math 1 Core **Science** Chemistry Core Physical Science Earth Science Core **Mixed Period** Physical Ed. 11th **Elective Courses** **Business** Intro to Bus. & Tech. Prin. of Info Tech Prin. Bus/Mktg/Fin College & Career Prep Legal Environment of Bus. Human Resources Prin. **English** Creative Writing Media Literacy **Fine Arts** Art Appreciation	**English** English 4 Core **Social Studies** Geography Geography and World Cultures US Govt, Politics and Global Econ Core Psychology/Sociology Modern World History from 1600 Modern World History from 1450 **Math** Consumer Math Statistics & Probability Business Math Algebra II Core Liberal Arts Math 1 Core Precalculus Core **Science** Chemistry Core Physical Science Earth Science Core **Mixed Period** Physical Ed. 12th **Elective Courses** **Business** Intro to Bus. & Tech. Prin. of Info Tech Prin. Bus/Mktg/Fin College & Career Prep Legal Environment of Bus. Human Resources Prin. **English** Creative Writing Media Literacy **Fine Arts** Art Appreciation **Foreign Languages**

		Foreign Languages Spanish 1 Spanish 2	Spanish 1 Spanish 2

CAREER TECHNOLOGY/BUSINESS(CYBER)

Individual Course Descriptions

Introduction to Business and Technology	Course Code:	C1410
Prerequisites:	Course Credits:	1.0

Introduction to Business and Technology provides the foundational knowledge and skills students need for careers in business and technology. Throughout the course, students gain a knowledge of business principles and communication skills, an understanding of the impact of financial and marketing decisions, and proficiency in the technologies required by business. Students will also learn the essentials of working in a business environment, managing a business, and owning a business.

This course allows students to explore careers in business and information technology while learning skills applicable to any professional setting. Through a variety of hands-on activities, students will engage with word processing, presentation, and spreadsheet software and explore operating systems, networking, and the Internet. Regular engagement in active learning ensures students can continually refine the skills necessary to prepare them for work. In addition, students will evaluate the qualifications required for specific careers so they can identify opportunities of interest to them.

Introduction to Business and Technology is a full-year introductory Career and Technical Education course applicable to programs of study in the Business, Management and Administration and Information Technology career clusters, as well as other career clusters. This course is built to state and national standards. Students who successfully complete the course will be prepared to pursue certifications such as Microsoft® Office Specialist certifications in Microsoft Word, Microsoft Excel and Microsoft Access, as well as IC3 certification.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Principles of Information Technology	Course Code:	C4810
Prerequisites:	Course Credits:	1.0

Principles of Information Technology prepares students to succeed in the workplace. Students begin by establishing an awareness of the roles essential to an organization's success, and then work to develop an understanding of professional communications and leadership skills. In doing so, students gain proficiency with word processing, email, and presentation management software. Students will also be able to demonstrate digital literacy through basic study of computer hardware, operating systems, networking, the Internet, web publishing, spreadsheets and database software.

This course allows students to explore careers in information technology and business while learning skills applicable to any professional setting. Through a series of hands-on activities, students will create, analyze, and critique reports, letters, project plans, presentations, and other professional communications. Students will learn what to expect in the field of Information Technology and begin exploring career options in the field. Regular engagement in active learning ensures students can continually refine the skills necessary to prepare them for work. In addition, students will evaluate the qualifications required for specific careers so they can identify opportunities that are of interest to them.

Principles of Information Technology is a full-year introductory Career and Technical Education course applicable to programs of study in business, management, and administration; information technology; and other career clusters. This course is built to state and national standards. Students who successfully complete the course will be prepared to pursue the Microsoft® Office Specialist certifications in Microsoft Word, Microsoft Excel and Microsoft Access*, as well as IC3 certification.

*Microsoft is a registered trademark of Microsoft Corporation in the United States and/or other countries.

Principles of Business, Marketing & Finance	Course Code:	C01276
Prerequisites:	Course Credits:	1.0

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Principles of Business, Marketing, and Finance provides the knowledge and skills students need for careers in business and marketing. Students begin exploring roles and functions that business and marketing play in a global society, develop an understanding of the marketplace, as well as understanding product placement and promotion.

Students analyze the impact of government, legal systems, and organized labor on business; develop an understanding of business communications and management; and explore legal, ethical, and financial issues in business and marketing. Furthermore, students delve into basic economic concepts including personal finance, economic systems, cost-profit relationships, and economic indicators and trends.

Using hands-on activities, students reinforce, apply and transfer academic knowledge and skills to a variety of interesting and relevant real-world inspired scenarios. This course focuses on developing knowledge and skills around marketing, pricing, distribution and management, while also focusing on economics and interpersonal skills. This course also addresses exploring career options in business and marketing as well as securing and keeping a job.
Principles of Business, Marketing, and Finance is a full-year Career and Technical course for programs of study in Business Administration and Management. This course is built to state and national standards.

Legal Environment of Business	Course Code:	C9409
Prerequisites: C01276 or C1410	Course Credits:	1.0

Legal Environment of Business examines the role of the law on all aspects of business ownership and management. Throughout the course, students focus on legal ethics, court procedures, torts, contracts, consumer law, property law, employment law, environmental law, and international law. Students also explore the impact of laws, regulations, and judicial decisions on society at large.

This course allows students to explore careers in business while learning skills applicable to any professional setting. Through a series of hands-on activities, students will prepare legal documents, create a compliance plan, and research consumer protection issues. Regular engagement in active learning ensures students can continually refine the skills necessary to prepare them for work. In addition, students will evaluate the qualifications required for specific careers so they can identify opportunities of interest to them.

Legal Environment of Business is a full-year intermediate or capstone Career and Technical Education course applicable to programs of study in the Business, Management and Administration career cluster. This course is built to state and national standards. Students who successfully complete the course will be prepared to pursue certifications such as Accredited Legal Professional, Certified Administrative Manager, or Certified Associate in Project Management®.

Human Resources Principles	Course Code:	C9602
Prerequisites: C01276 or C1410	Course Credits:	1.0

Human Resources Principles examines the main functions of human resources management, including planning, recruitment, selection, training, development, compensation, and evaluation. In doing so, the course provides students with the tools to hire, manage, and fire employees. Students will also explore the unique role of human resources in the larger organization.

This course allows students to explore careers in business while learning skills applicable to any professional setting. Through a series of hands-on activities, students will create a recruiting plan, develop a strategy to promote a positive organizational culture, and analyze the impact of globalization on human resources. Regular engagement in active learning ensures students can continually refine the skills necessary to prepare them for work. In addition, students will evaluate the qualifications required for specific careers so they can identify opportunities of interest to them.

Human Resources Principles is a full-year intermediate or capstone Career and Technical Education course applicable to programs of study in the Business, Management and Administration career cluster. This course is built to state and national standards. Students who successfully complete the course will be prepared to pursue certifications such as Associate Professional in Human ResourcesTM, Certified Administrative Manager, or Certified Associate in Project Management (CAPM)®

ELECTIVES (CYBER)

Individual Course Descriptions

College and Career Preparations I	Course Code:	C08520
Prerequisites:	Course Credits:	1.0

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

High school students have many questions about the college application process, what it takes to be a successful college student, and how to begin thinking about their careers.

In College and Career Preparation I, students obtain a deeper understanding of what it means to be ready for college. Students are informed about the importance of high school performance in college admissions and how to prepare for college testing. They know the types of schools and degrees they may choose to pursue after high school and gain wide exposure to the financial resources available that make college attainable.

Career readiness is also a focus. Students connect the link between interests, college majors, and future careers by analyzing career clusters. Students come away from this course understanding how smart preparation and skill development in high school can lead to expansive career opportunities after they have completed their education and are ready for the working world.

Students who complete College and Career Preparation I have the basic skills and foundation of knowledge to progress into College and Career Preparation II, the capstone course that provides hands-on information about the transition from high school to college and career.

This course is built to the American School Counselors Association National Standards for school counseling programs.

Physical Education	Course Code:	C01301
Prerequisites: For 11th graders	Course Credits:	1.0

Physical Education combines the best of online instruction with actual student participation in weekly cardiovascular, aerobic, and muscle toning activities. The course promotes a keen understanding of the value of physical fitness and aims to motivate students to participate in physical activities throughout their lives.

Specific areas of study include: Cardiovascular exercise and care, safe exercising, building muscle strength and endurance, injury prevention, fitness skills and FITT benchmarks, goal setting, nutrition and diet (vitamins and minerals, food labels, evaluation product claims), and stress management. The course requires routine participation in adult-supervised physical activities. Successful completion of this course will require parent/legal guardian sign-off on student-selected physical activities and on weekly participation reports to verify the student is meeting his or her requirements and responsibilities.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Physical Education is aligned to national and state standards and the Presidential Council on Physical Fitness and Sports.

Physical Education	Course Code:	C01401
Prerequisites: For 12th graders	Course Credits:	1.0

Physical Education combines the best of online instruction with actual student participation in weekly cardiovascular, aerobic, and muscle toning activities. The course promotes a keen understanding of the value of physical fitness and aims to motivate students to participate in physical activities throughout their lives.

Specific areas of study include: Cardiovascular exercise and care, safe exercising, building muscle strength and endurance, injury prevention, fitness skills and FITT benchmarks, goal setting, nutrition and diet (vitamins and minerals, food labels, evaluation product claims), and stress management. The course requires routine participation in adult-supervised physical activities. Successful completion of this course will require parent/legal guardian sign-off on student-selected physical activities and on weekly participation reports to verify the student is meeting his or her requirements and responsibilities.

Physical Education is aligned to national and state standards and the Presidential Council on Physical Fitness and Sports.

Physical Education - Contracted	Course Code:	C0102
Prerequisites:	Course Credits:	1.0

Physical Education combines the best of online instruction with actual student participation in weekly cardiovascular, aerobic, and muscle toning activities. The course promotes a keen understanding of the value of physical fitness and aims to motivate students to participate in physical activities throughout their lives.

Specific areas of study include: Cardiovascular exercise and care, safe exercising, building muscle strength and endurance, injury prevention, fitness skills and FITT benchmarks, goal setting, nutrition and diet (vitamins and minerals, food labels, evaluation product claims), and stress management. The course requires routine participation in adult-supervised physical activities. Successful completion of this course will require parent/legal guardian sign-off on

student-selected physical activities and on weekly participation reports to verify the student is meeting his or her requirements and responsibilities.

Physical Education is aligned to national and state standards and the Presidential Council on Physical Fitness and Sports.

Principles of Health Sciences	Course Code:	C0044
Prerequisites:	Course Credits:	1.0

Health is a valuable, skills-based health education course designed for general education in grades 9 through 12. Health helps students develop knowledge, attitudes, and essential skills in a variety of health-related subjects, including mental and emotional health, social health, nutrition, physical fitness, substance use and abuse, disease prevention and treatment, and injury prevention and safety.

Through the use of accessible information, realistic interactivities, and project-based learning, students apply the skills they need to stay healthy. These skills include identifying and accessing valid health information, practicing self-management, identifying internal and external influences, communicating effectively, making healthy decisions, setting goals, and advocating. Students who complete Health build the skills they need to protect, enhance, and promote their own health and the health of others.

This course is built to the National Health Standards (SHAPE) and is aligned to state standards.

Health Opportunities through Physical Education (HOPE)	Course Code:	C0111
Prerequisites:	Course Credits:	1.0

Health Opportunities through Physical Education (HOPE) combines instruction in health and physical education in a full-year, integrated course. It focuses on developing skills, habits and attitudes to maintain a healthy lifestyle and applying lessons learned to physical fitness. Through active participation and real-world simulations, the course aims to demonstrate firsthand the value of conscientious lifestyle management.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

HOPE lays a foundation for making healthy decisions by building seven skills: accessing valid health information; analyzing internal and external influences; self-management; interpersonal communication; decision-making; goal setting; and advocacy. Students apply these skills to a variety of topics throughout the course, including mental and emotional health, social health, nutrition, physical fitness, substance use and abuse, disease prevention and treatment, and injury prevention and safety. Successful completion of this course will require parent/legal guardian sign-off on student-selected physical activities on weekly participation reports to verify the student is meeting his or her requirements and responsibilities.

Art Appreciation	Course Code:	C06215
Prerequisites:	Course Credits:	1.0

Art Appreciation is a survey of the history of Western visual arts, with a primary focus on painting. Students begin with an introduction to the basic principles of painting and learn how to critique and compare works of art. Students then explore prehistoric and early Greek and Roman art before they move on to the Middle Ages. Emphasis is placed on the Renaissance and the principles and masters that emerged in Italy and northern Europe. Students continue their art tour with the United States during the 20th century, a time of great innovation as abstract art took center stage. While Western art is the course's primary focus, students will finish the course by studying artistic traditions from Africa, Asia, Oceania, and the Americas.

Coverage of each artistic movement highlights historical context and introduces students to key artists that represent a variety of geographic locations. Throughout the course, students apply what they have learned about art critique to analyze and evaluate both individual artists and individual works of art.

This course is built to national standards developed by the Consortium of National Arts Education Associations, as well as key state standards. It encompasses a variety of skills to enable students to critique, compare, and perhaps influence their own works of art.

ENGLISH (CYBER)

SEQUENCE OF SUBJECT AREA OFFERINGS BY GRADES (9-12)

Grade 9	Grade 10	Grade 11	Grade 12
Required Course	Required Course	Required Course	Required Course

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

English 1 Core	English 2 Core	English 3 Core	English 4 Core
Elective Courses Creative Writing Media Literacy	Elective Courses Creative Writing Media Literacy	Elective Courses Creative Writing Media Literacy	Elective Courses Creative Writing Media Literacy

Individual Course Descriptions

English 1 Core **English 1 Prescriptives**	Course Code:	C8110 C8111
Prerequisites:	Course Credits:	1.0

The English 9 course is an overview of exemplar selections of literature in fiction and nonfiction genres. Students read short stories, poems, a full-length novel, and a full-length Shakespeare play, analyzing the use of elements of literature in developing character, plot, and theme. For example, in selected stories, students compare the effect of setting on tone and character development. Likewise, in the poetry unit, students analyze how artists and writers draw from and interpret source material.

Each unit includes informational texts inviting students to consider the historical, social, and literary context of the main texts they study. For example, in the first semester, a Nikolai Gogol story that is offered as an exemplar of magical realism is accompanied by instruction on that genre. Together, the lesson content and reading prompt students to demonstrate their understanding of magical realism by analyzing its qualities in a literary text.

Throughout the course, students respond to others' claims and support their own claims in essays, discussions, and presentations, consistently using thorough textual evidence. The range of texts includes canonical authors such as William Shakespeare, Franz Kafka, and Elie Wiesel, as well as writers from diverse backgrounds, such as Alice Walker, Li-Young Lee, and Robert Lake-Thom (Medicine Grizzlybear).

English 2 Core	Course Code:	C8120

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

English 2 Prescriptives		C8122
Prerequisites: English 1 Core	Course Credits:	1.0

The focus of the English 10 course is the writing process. Three writing applications guide the curriculum: persuasive, expository, and narrative writing. Each lesson culminates in a written assignment that lets students demonstrate their developing skill in one of these applications.

English 10 follows the model of English 9 by including at least one anchor text per lesson, but the essays, articles, stories, poems, and speeches are often presented as models for students to emulate as they practice their own writing. So that these readings may serve as proper examples for students, a high proportion of texts for this course are original pieces.

English 10 also continues to develop students' reading, listening, and speaking skills. Readings include poems, stories, speeches, plays, and a graphic novel, as well as a variety of informational texts. The readings represent a wide variety of purposes and cultural perspectives, ranging from the Indian epic The Ramayana to accounts of Hurricane Katrina told through different media. Audio and video presentations enhance students' awareness and command of rhetorical techniques and increase their understanding of writing for different audiences.

English 3 Core **English 3 Prescriptive**	Course Code:	C8130 C8132
Prerequisites: English 1 and 2	Course Credits:	1.0

In the English 11 course, students examine the belief systems, events, and literature that have shaped the United States. They begin by studying the language of independence and the system of government developed by Thomas Jefferson and other enlightened thinkers. Next, they explore how the Romantics and Transcendentalists emphasized the power and responsibility of the individual in both supporting and questioning the government. Students consider whether the American Dream is still achievable and examine the Modernists' disillusionment with the idea that America is a "land of opportunity."

Reading the words of Frederick Douglass and the text of the Civil Rights Act, students look carefully at the experience of African Americans and their struggle to achieve equal rights. Students explore how individuals cope with the influence of war and cultural tensions while trying to build and secure their own personal identity. Finally, students examine how technology

is affecting our contemporary experience of freedom: Will we eventually change our beliefs about what it means to be an independent human being?

In this course, students analyze a wide range of literature, both fiction and nonfiction. They build writing skills by composing analytical essays, persuasive essays, personal narratives, and research papers. In order to develop speaking and listening skills, students participate in discussions and prepare speeches. Overall, students gain an understanding of the way American literature represents the array of voices contributing to our multicultural identity.

English 4 Core **English 4 Prescriptive**	Course Code:	C8140 C8142
Prerequisites: English 1, 2, 3	Course Credits:	1.0

The English 12 course asks students to closely analyze world literature and consider how we humans define and interact with the unknown, the monstrous, and the heroic. In the epic poems *The Odyssey*, *Beowulf*, and *The Inferno,* in Shakespeare's *Tempest*, in the satire of Swift, and in the rhetoric of World War II, students examine how the ideas of "heroic" and "monstrous" have been defined across cultures and time periods and how the treatment of the "other" can make monsters or heroes of us all.

Reading *Frankenstein* and works from those who experienced the imperialism of the British Empire, students explore the notion of inner monstrosity and consider how the dominant culture can be seen as monstrous in its ostensibly heroic goal of enlightening the world.

Throughout this course, students analyze a wide range of literature, both fiction and nonfiction. They build writing skills by composing analytical essays, persuasive essays, personal narratives, and research papers. In order to develop speaking and listening skills, students participate in discussions and prepare speeches. Overall, students gain an understanding of the way world literature represents the array of voices that contribute to our global identity.

Creative Writing	Course Code:	C8500
Prerequisites:	Course Credits:	1.0

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Creative Writing is an English elective course that focuses on the exploration of short fiction and poetry, culminating in a written portfolio that includes one revised short story and three to five polished poems. Students draft, revise, and polish fiction and poetry through writing exercises, developing familiarity with literary terms and facility with the writing process as they study elements of creative writing.

Elements of fiction writing explored in this course include attention to specific detail, observation, character development, setting, plot, and point of view. In the poetry units, students learn about the use of sensory details and imagery, figurative language, and sound devices including rhyme, rhythm and alliteration. They also explore poetic forms ranging from found poems and slam poetry to traditional sonnets and villanelles.

In addition to applying literary craft elements in guided creative writing exercises, students engage in critical reading activities designed to emphasize the writing craft of a diverse group of authors. Students study short stories by authors such as Bharati Mukherjee and Edgar Allan Poe, learning how to create believable characters and develop setting and plot. Likewise, students read poetry by canonical greats such as W. B. Yeats and Emily Dickinson as well as contemporary writers such as Pablo Neruda, Sherman Alexie, and Alice Notley. Studying the writing technique of a range of authors provides students with models and inspiration as they develop their own voices and refine their understanding of the literary craft.

By taking a Creative Writing course, students find new approaches to reading and writing that can affect them on a personal level, as the skills they gain in each lesson directly benefit their own creative goals. Students who are already actively engaged writers and readers learn additional tools and insight into the craft of writing to help them further hone their skills and encourage their creative as well as academic growth.

This course is built to the National Council of Teachers of English (NCTE) standards.

Media Literacy	Course Code:	C08151
Prerequisites:	Course Credits:	1.0

Media Literacy teaches students how to build the critical thinking, writing, and reading skills required in a media-rich and increasingly techno-centric world. In a world saturated with media messages, digital environments, and social networking, concepts of literacy must expand to

include all forms of media. Today's students need to be able to read, comprehend, analyze, and respond to non-traditional media with the same skill level they engage with traditional print sources.

A major topic in Media Literacy is non-traditional media reading skills, including how to approach, analyze, and respond to advertisements, blogs, websites, social media, news media, and wikis. Students also engage in a variety of writing activities in non-traditional media genres, such as blogging and podcast scripting.

Students consider their own positions as consumers of media and explore ways to use non-traditional media to become more active and thoughtful citizens. Students learn how to ask critical questions about the intended audience and underlying purpose of media messages, and study factors which can contribute to bias and affect credibility.

This course is built to The National Association for Media Literacy Education's Core Principles of Media Literacy Education, as well as aggregate state standards and research into best pedagogical practices.

MATH (CYBER)

SEQUENCE OF SUBJECT AREA OFFERINGS BY GRADES (9-12)

Grade 9	Grade 10	Grade 11	Grade 12
Required Course Algebra 1 Part A Core Algebra 1 Core Geometry Core	Required Course Algebra 1 Part B Core Geometry Core Algebra II Core	Required Course Consumer Math Statistics & Probability Business Math Geometry Core Algebra 2 Core Liberal Arts Math 1 Core	Required Course Consumer Math Statistics & Probability Business Math Algebra 2 Core Liberal Arts Math 1 Core Precalculus Core

Individual Course Descriptions

Business Math	Course Code:	C3663
Prerequisites:	Course Credits:	1.0
This course is dedicated to real world applications of Algebra Concepts. As such, nearly every problem is a word problem. This course is designed to expose students to the facets of running their own business including but not limited to Banking, Payroll, Taxes, Insurance, Managing People, Managing Inventory, Managing Business Costs and Marketing.		

Consumer Math	Course Code:	C3600
	Course Credits:	1.0
This course is dedicated to real world applications of basic math concepts. This course is designed to expose students to facets of running their own household and prepare them for College Accuplacer and ASVAB tests.		

Algebra 1 Core	Course Code:	C3212
Prerequisites:	Course Credits:	1.0
Algebra I build students' command of linear, quadratic, and exponential relationships. Students learn through discovery and application, developing the skills they need to break down complex challenges and demonstrate their knowledge in new situations. Course topics include problem-solving with basic equations and formulas; an introduction to functions and problem solving; linear equations and systems of linear equations; exponents and exponential functions; sequences and functions; descriptive statistics; polynomials and factoring; quadratic equations and functions; and function transformations and inverses. This course supports students as they develop computational fluency, deepen conceptual understanding, and apply Common Core's mathematical practice skills. Students discover new concepts through guided instruction and confirm their understanding in an interactive, feedback-rich environment.		

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

A variety of activities allow for students to think mathematically in a variety of scenarios and tasks. In Discussions, students exchange and explain their mathematical ideas. Modeling activities ask them to analyze real-world scenarios and mathematical concepts. Journaling activities have students reason abstractly and quantitatively, construct arguments, critique reasoning, and communicate precisely. And in Performance Tasks, students synthesize their knowledge in novel, real-world scenarios, make sense of multifaceted problems, and persevere in solving them.

Throughout the course, students are evaluated by a variety of assessments designed to prepare them for the content, form, and depth of the Common Core assessments.

This course is built for the Common Core State Standards for Mathematics.

Geometry Core	Course Code:	C3300
Prerequisites: Algebra 1 or Algebra I Part A & B	Course Credits:	1.0

Geometry builds upon students' command of geometric relationships and formulating mathematical arguments. Students learn through discovery and application, developing the skills they need to break down complex challenges and demonstrate their knowledge in new situations. Course topics include reasoning, proof, and the creation of sound mathematical arguments; points, lines, and angles; triangles and trigonometry; quadrilaterals and other polygons; circles; congruence, similarity, transformations, and constructions; coordinate geometry; three-dimensional solids; and applications of probability.

This course supports all students as they develop computational fluency and deepen conceptual understanding. Students begin each lesson by discovering new concepts through guided instruction, and then confirm their understanding in an interactive, feedback-rich environment. Modeling activities equip students with tools for analyzing a variety of real-world scenarios and mathematical ideas. Journaling activities allow students to reason abstractly and quantitatively, construct arguments, critique reasoning, and communicate precisely. Performance tasks prepare students to synthesize their knowledge in novel, real-world scenarios and require that they make sense of multifaceted problems and persevere in solving them.

Algebra 2 Core	Course Code:	C3220
Prerequisites: Algebra 1 or Algebra 1 Part A & B	Course Credits:	1.0

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Algebra II introduces students to advanced functions, with a focus on developing a strong conceptual grasp of the expressions that define them. Students learn through discovery and application, developing the skills they need to break down complex challenges and demonstrate their knowledge in new situations.

Course topics include quadratic equations; polynomial functions; rational expressions and equations; radical expressions and equations; exponential and logarithmic functions; trigonometric identities and functions; modeling with functions; probability and inferential statistics; probability distributions; and sample distributions and confidence intervals.

This course supports all students as they develop computational fluency and deepen conceptual understanding. Students begin each lesson by discovering new concepts through guided instruction, and then confirm their understanding in an interactive, feedback-rich environment. Modeling activities equip students with tools for analyzing a variety of real-world scenarios and mathematical ideas. Journaling activities allow students to reason abstractly and quantitatively, construct arguments, critique reasoning, and communicate precisely. Performance tasks prepare students to synthesize their knowledge in novel, real-world scenarios and require that they make sense of multifaceted problems and persevere in solving them.

Precalculus Core	Course Code:	C3912
Prerequisites: Algebra 1/Algebra 2 and Geometry	Course Credits:	1.0

Precalculus is a course that combines reviews of algebra, geometry, and functions into a preparatory course for calculus. The course focuses on the mastery of critical skills and exposure to new skills necessary for success in subsequent math courses. The first semester includes linear, quadratic, exponential, logarithmic, radical, polynomial, and rational functions; systems of equations; and conic sections. The second semester covers trigonometric ratios and functions; inverse trigonometric functions; applications of trigonometry, including vectors and laws of cosine and sine; polar functions and notation; and arithmetic of complex numbers.

Within each Precalculus lesson, students are supplied with a post-study Checkup activity that provides them the opportunity to hone their computational skills by working through a low-stakes problem set before moving on to formal assessment. Unit-level Precalculus assessments include a computer-scored test and a scaffolded, teacher-scored test.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

The course is built to the National Council of Teachers of Mathematics (NCTM) standards and is aligned with state standards.

Financial Literacy	Course Code:	C3033
Prerequisites:	Course Credits:	1.0

Financial Literacy helps students recognize and develop vital skills that connect life and career goals with personalized strategies and milestone-based action plans. Students explore concepts and work toward a mastery of personal finance skills, deepening their understanding of key ideas and extending their knowledge through a variety of problem-solving applications.

Course topics include career planning; income, taxation, and budgeting; savings accounts, checking accounts, and electronic banking; interest, investments, and stocks; cash, debit, credit, and credit scores; insurance; and consumer advice on how to buy, rent, or lease a car or house.

These topics are solidly supported by writing and discussion activities. Journal activities provide opportunities for students to both apply concepts on a personal scale and analyze scenarios from a third-party perspective. Discussions help students network with one another by sharing personal strategies and goals and recognizing the diversity of life and career plans within a group.

To assist students for whom language presents a barrier to learning or who are not reading at grade level, Financial Literacy includes audio resources in English.

This course is built to state standards as they apply to Financial Literacy and adheres to the National Council of Teachers of Mathematics' (NCTM) Problem Solving, Communication, Reasoning, and Mathematical Connections Process standards.

Probability and Statistics	Course Code:	C3605
Prerequisites: Algebra 1/Algebra 2 and Geometry	Course Credits:	1.0

Probability and Statistics provides a curriculum focused on understanding key data analysis and probabilistic concepts, calculations, and relevance to real-world applications. Through a "Discovery-Confirmation-Practice"-based exploration of each concept, students are challenged to

work toward a mastery of computational skills, deepen their understanding of key ideas and solution strategies, and extend their knowledge through a variety of problem-solving applications.

Course topics include types of data; common methods used to collect data; and the various representations of data, including histograms, bar graphs, box plots, and scatter plots. Students learn to work with data by analyzing and employing methods of prediction, specifically involving samples and populations, distributions, summary statistics, regression analysis, transformations, simulations, and inference.

Ideas involving probability — including sample space, empirical and theoretical probability, expected value, and independent and compound events — are covered as students explore the relationship between probability and data analysis. The basic connection between geometry and probability is also explored.

To assist students for whom language presents a barrier to learning or who are not reading at grade level, Probability and Statistics includes audio resources in English.

The course is built to the National Council of Teachers of Mathematics (NCTM) standards and is aligned with state standards.

Algebra 1 Part A and Algebra 2 Part B	Course Code:	C3010 & C3020
Prerequisites:	Course Credits:	1.0 each

Algebra I Part A and I Part B provide an expanded, two-year course sequence designed for students who are not prepared for the academic challenges of the traditional one-year Algebra I curriculum.

Focusing on review of pre-algebra skills and introductory algebra content, Algebra I-A allows students to deepen their understanding of real numbers in their various forms and then extend their knowledge to linear equations in one and two variables.

Algebra I-A features ample opportunity for students to hone their computational skills by working through practice problem sets before moving on to formal assessment.

To assist students for whom language presents a barrier to learning or who are not reading at grade level, Algebra I-A includes audio resources in both Spanish and English.

Two versions of the Algebra I-A course are offered: one is built to Florida's Next Generation Sunshine State Standards and Benchmarks, and the other with California's Algebra I Mathematics Content Standards. Detailed correlations to standards for other states are available upon request

Liberal Arts Mathematics 1	Course Code:	C3111
Prerequisites:	Course Credits:	1.0

Liberal Arts Mathematics 1 addresses the need for an elective course that focuses on reinforcing, deepening, and extending a student's mathematical understanding. Liberal Arts Mathematics 1 starts with a review of problem-solving skills before moving on to a variety of key algebraic, geometric, and statistical concepts. Throughout the course, students hone their computational skills and extend their knowledge through problem solving and real-world applications.

Course topics include problem solving; real numbers and operations; functions and graphing; systems of linear equations; polynomials and factoring; geometric concepts such as coordinate geometry and properties of geometric shapes; and descriptive statistics.

Within each Liberal Arts Mathematics 1 lesson, students are supplied with a scaffolded note-taking guide, called a Study Sheet, and are given ample opportunity to practice computations in low-stakes Checkup activities before moving on to formal assessment. Additionally, students will have the opportunity to formulate and justify conclusions as they extend and apply concepts through printable exercises and "in-your-own-words" interactive activities.

To assist students for whom language presents a barrier to learning or who are not reading at grade level, Liberal Arts Mathematics 1 includes audio resources in English.

This course is built to Florida's Next Generation Sunshine State Standards and Benchmarks.

SCIENCE (CYBER)

SEQUENCE OF SUBJECT AREA OFFERINGS BY GRADES (9-12)

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Grade 9	Grade 10	Grade 11	Grade 12
Required Course Environmental Science Core	Required Course Biology Core	Required Course Chemistry Core Physical Science Earth Science Core	Required Course Chemistry Core Physical Science Earth Science Core

Individual Course Descriptions

Earth Science Core	Course Code:	C7011
Prerequisites:	Course Credits:	1.0

Earth Science offers a focused curriculum that explores Earth's composition, structure, processes, and history; its atmosphere, freshwater, and oceans; and its environment in space.

Course topics include an exploration of the major cycles that affect every aspect of life, including weather, climate, air movement, tectonics, volcanic eruptions, rocks, minerals, geologic history, Earth's environment, sustainability, and energy resources. Optional teacher-scored labs encourage students to apply the scientific method.

This course is built to state standards and informed by the National Science Teachers Association (NSTA).

Physical Science Core	Course Code:	C7502
Prerequisites:	Course Credits:	1.0

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Physical Science offers a focused curriculum designed around the understanding of critical physical science concepts, including the nature and structure of matter, the characteristics of energy, and the mastery of critical scientific skills.

Course topics include an introduction to kinematics, including gravity and two-dimensional motion; force; momentum; waves; electricity; atoms; the periodic table of elements; molecular bonding; chemical reactivity; gases; and an introduction to nuclear energy. Teacher-scored labs encourage students to apply the scientific method.

This course is built to state standards and informed by the National Science Teachers Association (NSTA).

Environmental Science Core	Course Code:	C7800
Prerequisites:	Course Credits:	1.0

Environmental Science explores the biological, physical, and sociological principles related to the environment in which organisms live on Earth, the biosphere. Course topics include natural systems on Earth, biogeochemical cycles, the nature of matter and energy, the flow of matter and energy through living systems, populations, communities, ecosystems, ecological pyramids, renewable and non-renewable natural resources, land use, biodiversity, pollution, conservation, sustainability, and human impacts on the environment.

The course provides students with opportunities to learn and practice scientific skills within the context of relevant scientific questions. Scientific inquiry skills are embedded in the direct instruction, wherein students learn to ask scientific questions, deconstruct claims, form and test hypotheses, and use logic and evidence to draw conclusions about the concepts. Case studies of current environmental challenges introduce each content lesson and acquaint students with real-life environmental issues, debates, and solutions. Lab activities reinforce critical thinking, writing, and communication skills and help students develop a deeper understanding of the nature of science. Virtual Lab activities enable students to engage in investigations that require long periods of observation at remote locations and to explore simulations that enable environmental scientists to test predictions. Throughout this course, students are given an opportunity to understand how biology, earth science, and physical science are applied to the study of the environment and how technology and engineering are contributing solutions for studying and creating a sustainable biosphere.

This course is built to state standards and informed by the NGSS standards for life science, earth science, physical science, and engineering, technology, and society.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Biology Core	Course Code:	C7202
Prerequisites: Environmental Science Core	Course Credits:	1.0

Biology focuses on the mastery of basic biological concepts and models while building scientific inquiry skills and exploring the connections between living things and their environment.

The course begins with an introduction to the nature of science and biology, including the major themes of structure and function, matter and energy flow, systems, and the interconnectedness of life. Students then apply those themes to the structure and function of the cell, cellular metabolism, and biogeochemical cycles. Building on this foundation, students explore the connections and interactions between living things by studying genetics, ecosystems and natural selection, and evolution. The course ends with an applied look at human biology.

Scientific inquiry skills are embedded in the direct instruction, wherein students learn to ask scientific questions, form and test hypotheses, and use logic and evidence to draw conclusions about the concepts.

Lab activities reinforce critical thinking, writing, and communication skills and help students develop a deeper understanding of the nature of science.

This course is built to state standards and informed by the National Science Education Standards (NSES).

Chemistry Core	Course Code:	C7400
Prerequisites: Biology Core	Course Credits:	1.0

Chemistry offers a curriculum that emphasizes students' understanding of fundamental chemistry concepts while helping them acquire tools to be conversant in a society highly influenced by science and technology.

The course provides students with opportunities to learn and practice critical scientific skills within the context of relevant scientific questions. Topics include the nature of science, the importance of chemistry to society, atomic structure, bonding in matter, chemical reactions, redox reactions, electrochemistry, phases of matter, equilibrium and kinetics, acids and bases,

thermodynamics, quantum mechanics, nuclear reactions, organic chemistry, and alternative energy.

Scientific inquiry skills are embedded in the direct instruction, wherein students learn to ask scientific questions, form and test hypotheses, and use logic and evidence to draw conclusions about concepts. Lab activities reinforce critical thinking, writing, and communication skills and help students develop a deeper understanding of the nature of science.

Throughout this course, students are given an opportunity to understand how chemistry concepts are applied in technology and engineering. Journal and Practice activities provide additional opportunities for students to apply learned concepts and practice their writing skills.

This course is built to state standards and informed by the American Association for the Advancement of Science (AAAS) Project 2061 benchmarks and the National Science Education Standards.

SOCIAL STUDIES (CYBER)

SEQUENCE OF SUBJECT AREA OFFERINGS BY GRADES (9-12)

Grade 9	Grade 10	Grade 11	Grade 12
Required Course United States to the Civil War	Required Course United States Since the Civil War	Required Course United States Since the Civil War Geography & World Cultures US Govt, Politics & Global Econ. Core Psychology/Sociology Modern World History from 1600 Modern World History from 1450	Required Course Geography & World Cultures US Govt, Politics & Global Econ. Core Psychology/Sociology Modern World History from 1600 Modern World History from 1450

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Individual Course Descriptions

Geography and World Cultures (Core & Honors)	Course Code:	C9700
Prerequisites:	Course Credits:	1.0

Geography and World Cultures offers a tightly focused and scaffolded curriculum that enables students to explore how geographic features, human relationships, political and social structures, economics, science and technology, and the arts have developed and influenced life in countries around the world. Along the way, students are given rigorous instruction on how to read maps, charts, and graphs, and how to create them.
Geography and World Cultures is based on standards from the National Council for History Education (1997), the National Center for History in the Schools (1996), and the National Council for Social Studies (1994) and is aligned to state standards.

Geography and World Cultures is designed as the first course in the social studies sequence. It develops note-taking skills, teaches the basic elements of analytic writing, and introduces students to the close examination of primary documents.

Modern World History from 1450 (Prescriptive & Core)	Course Code:	C9011
Prerequisites:	Course Credits:	1.0

In Modern World History from 1450, students study the major turning points that shaped the modern world including the expansion of Islamic and Asian empires, transoceanic exploration, the Atlantic slave trade, the Enlightenment, industrialization, imperialism, nationalism, political revolutions, the world wars, the Cold War, decolonization, and globalization. By presenting content from multiple perspectives and through diverse primary and secondary source materials, this course not only provides students with a solid foundation in the history of the modern era, but it also prepares students to be active and informed citizens of the world.

Through critical reading activities, feedback-rich instruction, and application-oriented assignments, students develop their capacity to conduct research, analyze sources, make arguments, and take informed action. In written assignments, students address critical questions about the history of the modern era. In discussion activities, students respond to diverse opinions, take positions, and defend their own claims. Formative and summative assessments provide

students — and teachers — with ample opportunities to check in, review, and evaluate students' progress in the course.

This course is built to state standards and the Common Core State Standards for Literacy in Social Studies.

Modern World History from 1600 (Prescriptive & Core)	Course Code:	C9012
Prerequisites: Modern World History from 1450	Course Credits:	1.0

In Modern World History from 1600, students study the major turning points that shaped the modern world including the Enlightenment, industrialization, imperialism, nationalism, political revolutions, the world wars, the Cold War, decolonization, and globalization. By presenting content from multiple perspectives and through diverse primary and secondary source materials, this course provides students with a solid foundation in the history of the modern era and prepares students to be active and informed citizens of the world.

Through critical reading activities, feedback-rich instruction, and application-oriented assignments, students develop their capacity to conduct research, analyze sources, make arguments, and take informed action. In written assignments, students address critical questions about the history of the modern era. In discussion activities, students respond to diverse opinions, take positions, and defend their own claims. Formative and summative assessments provide students — and teachers — with ample opportunities to check in, review, and evaluate students' progress in the course.

This course is built to state standards and the Common Core State Standards for Literacy in Social Studies.

US History to the Civil War	Course Code:	C9300
Prerequisites:	Course Credits:	1.0

This course traces the nation's history from the pre-colonial period to the end of the American Civil War. It emphasizes the colonial period and the creation of a new nation and examines the

beliefs and philosophies that informed the American Revolution and the subsequent formation of the government and political system.

Students first explore the earliest points of contact between individuals from Europe, Africa, and North America. They then probe the economic, cultural, and social motives for the nation's expansion, as well as the conflicting notions of liberty that eventually resulted in the Civil War. Woven throughout this narrative history is a strong focus on the changing conditions of women, African Americans, and other minority groups. The ways in which Americans lived, ate, dressed, and interacted are also highlighted.

The course emphasizes the development of historical analysis skills such as comparing and contrasting, differentiating between facts and interpretations, considering multiple perspectives, and analyzing cause-and-effect relationships. These skills are applied to text interpretation and in written assignments that guide learners step-by-step through problem-solving activities.

This course is built to state standards and standards from the National Council for History Education (1997), the National Center for History in the Schools (1996), and the National Council for Social Studies (1994).

US History since the Civil War	Course Code:	C9200
Prerequisites: US History to the Civil War	Course Credits:	1.0

This course traces the nation's history from the end of the Civil War to the present. It describes the emergence of the United States as an industrial nation, highlighting social policy as well as its role in modern world affairs.

Students evaluate the attempts to bind the nation together during Reconstruction while also exploring the growth of an industrial economy. Moving into the 20th and 21st centuries, students probe the economic and diplomatic interactions between the United States and other world players while investigating how the world wars, the Cold War, and the "information revolution" affected the lives of ordinary Americans. Woven through this chronological sequence is a strong focus on the changing conditions of women, African Americans, and other minority groups.

The course emphasizes the development of historical analysis skills such as comparing and contrasting, differentiating between facts and interpretations, considering multiple perspectives,

and analyzing cause-and-effect relationships. These skills are applied to text interpretation and in written assignments that guide learners step-by-step through problem-solving activities.

This course is built to state standards and standards from the National Council for History Education (1997), the National Center for History in the Schools (1996), and the National Council for Social Studies (1994).

US Government, Politics and Global Econ.	Course Code:	C09431
Prerequisites:	Course Credits:	1.0

In U.S. Government and Politics, students examine the history, principles, and functions of the political system established by the U.S. Constitution. Starting with a basic introduction to the role of government in society and the philosophies at the heart of American democracy, this course provides students with the knowledge needed to be informed and empowered participants in the U.S. political system.
Through critical reading activities, feedback-rich instruction, and application-oriented assignments, students develop their capacity to conduct research, analyze sources, make arguments, and take informed action. In written assignments, students address critical questions about U.S. politics and the role of individual Americans in the politics and political organizations. In discussion activities, students respond to political opinions, take a position, and defend their own claims. Formative and summative assessments provide students — and teachers — with ample opportunities to check in, review, and evaluate students' progress in the course.

This course is built to state standards, the College, Career, and Civil Life (C3) Framework for Social Studies State Standards (2013), the National Standard for Civics and Government (1994), and the Common Core State Standards for Literacy in Social Studies.

Sociology/Psychology	Course Code:	C9600
Prerequisites:	Course Credits:	1.0

Sociology examines why people think and behave as they do in relationships, groups, institutions, and societies.

Major course topics include individual and group identity, social structures and institutions, social change, social stratification, social dynamics in recent and current events, the effects of social change on individuals, and the research methods used by social scientists.

In online discussions and polls, students reflect critically on their own experiences and ideas, as well as on the ideas of sociologists. Interactive multimedia activities include personal and historical accounts to which students can respond, using methods of inquiry from sociology. Written assignments provide opportunities to practice and develop skills in thinking and communicating about human relationships, individual and group identity, and all other major course topics.

Psychology provides a solid overview of the field's major domains: methods, biopsychology, cognitive and developmental psychology, and variations in individual and group behavior.

By focusing on significant scientific research and on the questions that are most important to psychologists, students see psychology as an evolving science. Each topic clusters around challenging questions, such as "What is happiness?" Students answer these questions before, during, and after they interact with direct instruction

This course is built to the National Council for the Social Studies (NCSS) Expectations of Excellence: Curriculum Standards for Social Studies.

WORLD LANGUAGE (CYBER)

Individual Course Descriptions

Spanish I	Course Code:	C2210
Prerequisites:	Course Credits:	1.0

Spanish I teaches students to greet people, describe family and friends, talk about hobbies, and communicate about other topics, such as home life, occupations, travel, and medicine. Each lesson presents vocabulary, grammar, and culture in context, followed by explanations and exercises. Vocabulary includes terms to describe school subjects, parts of the body, and people, as well as idiomatic phrases. Instruction in language structure and grammar includes the structures and uses of present-tense verb forms, imperatives, adjective agreement, impersonal constructions, formal and informal address, and reflexive verbs. Students explore words used in

different Spanish-speaking regions and learn about the cultures of Spanish-speaking countries and regions within and outside Europe.

The material in this course is presented at a moderate pace.

This course is built to the American Council on the Teaching of Foreign Languages (ACTFL) standards.

Spanish II	Course Code:	C2220
Prerequisites: Spanish I	Course Credits:	1.0

Building on Spanish I concepts, Spanish II students learn to communicate more confidently about themselves, as well as about topics beyond their own lives - both in formal and informal situations. Each lesson presents vocabulary, grammar, and culture in context, followed by explanations and exercises. Students expand their vocabulary in topics such as cooking, ecology, geography, and architecture. Instruction in language structure and grammar includes a review of present-tense verb forms, an introduction to the past tense, the conditional mood, imperatives, impersonal constructions, and reported speech. Students deepen their knowledge of Spanish-speaking regions and cultures by learning about history, literature, culture, and contemporary issues.

The material in this course is presented at a moderate pace.

This course is built to the American Council on the Teaching of Foreign Languages (ACTFL) standards.

CAREER TECHNOLOGY EDUCATION

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

CAREER TECHNOLOGY EDUCATION

Career technology education supplements and complements the educational program offered at Scranton and West Scranton High Schools. The Career Technology Center must utilize a broadly organized curriculum to meet current and anticipated needs in our society. Thus, a three tract educational program, namely, a technical level, a skilled level, and an operational level is offered. Each of the three levels offers various options to students. They may find employment upon graduation, pursue post-secondary vocational and technical training, or go on to college depending upon the program and courses they have chosen.

A student must have satisfactorily completed the ninth grade to apply for admission to the Career Technology Center of Lackawanna County.

Students who are admitted to the Career Technology Center programs will spend a half-day at their home school and a half-day at the Career Technology Center with transportation provided by the home school. Academic subjects will be taught in the home school while the Career Technology Center will provide instruction in career technology practice and techniques.

REGULAR COURSES

HONORS COURSES

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

N/A

ADVANCED PLACEMENT COURSES

N/A

Individual Course Descriptions

Automotive 1	Course Code:	
Prerequisites:	Course Credits:	
The Automotive Technology program provides students with an entry level background in the skills and knowledge needed for a career in the automotive repair field. This is a challenging program for students who are preparing to enter the automotive industry. Specialized classroom and shop exercises are designed to provide instruction in the area of engine repair, suspension and steering, brakes, electrical/ electronic systems and engine performance. Training also includes using state of the art diagnostic equipment, technical manuals, online resources and a variety of hand and power tools. This program is evaluated by the National Automotive Technicians Education Foundation (NATEF) and certified by the National Institute of Automotive Service Excellence (ASE). The program is also an affiliate school of AYES (Automotive Youth Education System).		

Automotive 2	Course Code:	
Prerequisites: Automotive 1	Course Credits:	
The Automotive Technology program provides students with an entry level background in the skills and knowledge needed for a career in the automotive repair field. This is a challenging program for students who are preparing to enter the automotive industry. Specialized classroom and shop exercises are designed to provide instruction in the area of engine repair, suspension and steering, brakes, electrical/ electronic systems and engine performance. Training also includes using state of the art diagnostic equipment, technical manuals, online resources and a variety of hand and power tools. This program is evaluated by the National Automotive Technicians Education Foundation (NATEF) and certified by the National Institute of Automotive Service Excellence (ASE). The program is also an affiliate school of AYES (Automotive Youth Education System).		

Building Mechanics	Course Code:	

Prerequisites:	Course Credits:	

The Building Mechanics Trades program is designed to teach entry level, to advanced level skills, primarily in Carpentry, Plumbing & the Electrical trades. Basic Masonry skills are also a part of the curriculum in year three. Students identify, measure, cut, repair and install components relating to residential, commercial and industrial buildings. Students hands-on experience gives them a significant advantage in obtaining employment in today's competitive job market.

The curriculum also includes architectural blueprint reading, job safety, job readiness, and job retention skills. Students gain valuable experience using hand & power tools common in the building construction industry. An important part of instruction includes classroom instruction and the use of related books, videos, manuals and catalogs.

Carpentry	Course Code:	
Prerequisites:	Course Credits:	

The Carpentry program provides students with 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 a transit, blueprints, pneumatic fasteners, and estimation. This instruction combined with practical experience in and out of the shop compliment the main emphasis of the phases of residential construction. Upon completion of the carpentry program, students should have the qualifications to start a career as a carpenter's helper for a contractor, government agency, industrial plant, or cabinet and millwork factory. After meeting the requirements, students may also apply for entrance into an apprenticeship program or at a post-secondary program.

Child Development	Course Code:	
Prerequisites:	Course Credits:	

Child care workers care and nurture children of all ages in a variety of settings. Students in this course learn how to play an important role in a child's development by attending to a child's basic needs, organizing activities and assisting in the development of their emotional, intellectual and social well-being. The physical environment, the ability to work well with all types of children, learning about adaptability, and patience are a few things you will study when you become part of the Child Care and Development program at CTCLC.

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

This program offers students the opportunity to learn skills needed to work in early childhood facilities, Head Start programs, and other child-centered occupations as well as helping to build foundational skills for a career in elementary education. The course is designed to assist students in preparation for the CDA credential assessment. This course includes the study of developmentally appropriate practices and programs, theoretical and historical perspectives, ethical and professional responsibilities, and current issues. Students will study the child, family, community, and schools and the influence these areas have in growth and development.

Collision Repair	Course Code:	
Prerequisites:	Course Credits:	

The Collision Repair Technology program provides students with the 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.

Emphasis will be placed on metal and surface preparation that includes dent repair, filling, grinding and sanding using power and hand tools, priming, block sanding, and feathering. Students will be trained in paint safety, painting, color-matching, mixing and spraying techniques using methods that are currently used in the collision industry. Students will learn the different types of welding, including aluminum welding and cutting methods and the use of cutting tools and machinery. Instruction will include paint reconditioning, buffing, and detailing; removal and replacement of body parts, glass, hardware and trim; suspension and steering parts replacement; and repair and refinish of different types of plastics and composites used in automotive collision repair. Adhesive bonding techniques will be introduced. Training is given on electrical systems, restraint systems, anti-lock brake systems operations, Unibody-frame damage analysis, and measuring and repair procedures using pulling equipment. Students will prepare themselves for industry by learning how to write a resume and create a portfolio.

Cosmetology 1	Course Code:	
Prerequisites:	Course Credits:	

The primary purpose of the CTCLC Cosmetology Program is to train students in the basic manipulative skills, safety judgments, proper work habits, and desirable attitudes necessary to

obtain licensure and for competency in an entry-level position in cosmetology or a related career field.

The 1,250 clock hour education is provided through a sequential set of steps that address specific tasks necessary for state board preparation, graduation, and entry-level job skills. Clinic equipment, implements, and products are comparable to those used in the industry. Each student will receive instruction that relates to the performance of useful, creative, and productive career-oriented activities. The course is presented through comprehensive lesson plans that reflect effective educational methods. Subjects are presented by means of lecture, demonstration and student participation. Audiovisual aids, guest speakers, field trips, projects, activities, and other learning methods are used in the course.

Licensure is granted upon completion of 1,250 documented hours and a minimum grade of 75% on the Pennsylvania State Board of Cosmetology theory and practical exam.

Cosmetology 2	Course Code:	
Prerequisites: Cosmetology 1	Course Credits:	

The primary purpose of the CTCLC Cosmetology Program is to train students in the basic manipulative skills, safety judgments, proper work habits, and desirable attitudes necessary to obtain licensure and for competency in an entry-level position in cosmetology or a related career field.

The 1,250 clock hour education is provided through a sequential set of steps that address specific tasks necessary for state board preparation, graduation, and entry-level job skills. Clinic equipment, implements, and products are comparable to those used in the industry. Each student will receive instruction that relates to the performance of useful, creative, and productive career-oriented activities. The course is presented through comprehensive lesson plans that reflect effective educational methods. Subjects are presented by means of lecture, demonstration and student participation. Audiovisual aids, guest speakers, field trips, projects, activities, and other learning methods are used in the course.

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Creative Communications, Digital Communications	Course Code:	
Prerequisites:	Course Credits:	

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Digital Communications is a program that combines graphic design and technology to create solutions. This program will have a strong concentration on graphic design, digital photography and videography, motion graphics, website design and multimedia design. Students will master the use of color, type, movement, video and images to create visual projects to communicate and entertain. Students will become proficient in Adobe Creative Cloud applications such as Adobe InDesign, Adobe Illustrator, Adobe Photoshop, Adobe After Effects, Adobe Dreamweaver and more.		

Creative Communications, Illustration & Design	Course Code:	
Prerequisites:	Course Credits:	
In the Illustration and Design program you will build upon your skills as an artist and expand your knowledge of both traditional and digital illustration techniques. You will also explore the foundations of graphic design, color theory, composition, typography, art criticism, animation, and video game design. Industry standard design software including the Adobe Creative Suite are utilized throughout the curriculum. Students enrolled in Digital Communications Design and Illustration and Design are eligible to receive AP credit upon completion of their program of study as well as participate in dual enrollment with local universities		

Creative Communications, Print Production Technology	Course Code:	
Prerequisites:	Course Credits:	
Prepares individuals to apply technical knowledge and skills to plan, prepare and execute commercial and industrial visual image and print products using mechanical, electronic and digital graphic and printing equipment. Students learn desktop publishing, layout, composition, presswork and bindery as well as photography, flexography, offset lithography and other graphic arts techniques. Emphasis is on typographical layout and design using computer graphics, offset preparation and operation, paper cutting, ink and color preparation and screen printing production. Also included in the course are cost/inventory control, job planning, troubleshooting, repair of equipment, and estimating.		

THE MAP
SCRANTON SCHOOL DISTRICT
2022-2023 COURSE CATALOG/CURRICULUM GUIDE

Culinary Arts 1	Course Code:	
Prerequisites:	Course Credits:	

The Culinary Arts program at CTC of Lackawanna County consists of a series of planned courses designed to provide students with skills, knowledge, and attitudes necessary for mid-level and middle management employment and post- secondary training in food related careers.

Many young people work as chefs, cooks, and other kitchen/restaurant and front of the house workers - over 20% are between the ages of 16 and 19 years old. Culinary Arts workers handle, prepare, cook, and serve food in a customer-orientated business. Working conditions may vary depending on the establishment and the type and quantity of food prepared. The work is time managed, the environment is often hot and working under pressure is the norm. Working hours vary, dictated by the type of establishment, with long irregular hours including holidays and weekends. Again, emphasis is placed upon an environment where the work is often fast paced and time managed since the product is perishable.

All courses integrate safety, leadership, employability skills, mathematics, and science instruction wherever applicable. The instruction and on-the-job training will be conducted in a fully equipped cafeteria and restaurant at the school. Students will learn how to order, receive, store, prepare, manage and serve food and beverages along with measuring, mixing, and proportioning using various utensils, tools, and equipment. Courses employ guidelines for safety and sanitation according to HACCP, ServSafe and OSHA standards as set forth by the state of Pennsylvania and as adopted from accredited culinary schools such as the Culinary Institute of America, Johnson and Wales, Penn College and the American Culinary Federation. Students are assessed by teacher-made rubrics, projects, tests, quizzes, and participation in school and out of school activities.

Upon completion of the culinary arts program, students have the qualifications to start a career in a culinary arts establishment. Students are also actively recruited for further culinary education in two or four year post-secondary programs. For the student that is willing to learn and work, there are countless opportunities for employment and advancement in the culinary arts industry.

Culinary Arts 2	Course Code:	
Prerequisites: Culinary Arts 1	Course Credits:	

The Culinary Arts program at CTC of Lackawanna County consists of a series of planned courses designed to provide students with skills, knowledge, and attitudes necessary for mid-level and middle management employment and post- secondary training in food related careers.

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Electrical Construction and Maintenance	Course Code:	
Prerequisites:	Course Credits:	

The Electrical Construction Technology Program prepares individuals to apply technical knowledge and skills necessary to install, operate, maintain and repair residential, commercial and industrial electrical systems. Students will work with DC and AC motors, controls, electrical distribution panels, circuit diagrams and use of electrical codes, blueprint reading, safety and first aid practices. Telecommunication, wind and solar trainers are also utilized. Mathematics, science and reading are essential for employment in the electrical trade. Employers often hire students

who complete this program and usually start them at a more advanced level than those without this training. The use of books, catalogs and electronic resources are an important component of instruction.

Health Occupations 1	Course Code:	
Prerequisites:	Course Credits:	

The Health Occupations Technology program is designed to prepare students for a variety of health career occupations (Nursing Assistant and Medical Assistant) and prepare students for post-secondary education (Registered Nurse, Licensed Practical Nurse, Occupational and Physical Therapy Assistant, Physician Assistant). The Health Occupations Technology program is planned and delivered in a three-tier approach, each level builds upon the previous year learning experiences.

Topics of Study:

Level I: Students learn basic human anatomy and physiology, medical terminology, and growth and development across the lifespan. This year is the foundation for their chosen health care occupation.

Level II: Students will enter the Pennsylvania State Nurse Aide Training Program upon fulfilling state requirements. Within this program, students are to complete mandatory theory, laboratory, and clinical hours. With the successful completion of required components, students are able to take the certification examination to become a Certified Nurse Aide.

Level III: Students learn various aspects of Medical Assisting. Students will learn administrative components to medical assisting such as scheduling, medical records, billing and coding. Students will learn clinical aspects such as medical asepsis, OSHA standards, and cardiopulmonary procedures. With the successful completion of required components, students are able to take the certification examination to become a Certified Medical Administrative Assistant and Certified EKG Technician.

Health Occupations 2	Course Code:	
Prerequisites: Health Occupations 1	Course Credits:	

The Health Occupations Technology program is designed to prepare students for a variety of health career occupations (Nursing Assistant and Medical Assistant) and prepare students for post-secondary education (Registered Nurse, Licensed Practical Nurse, Occupational and

Physical Therapy Assistant, Physician Assistant). The Health Occupations Technology program is planned and delivered in a three-tier approach, each level builds upon the previous year learning experiences.

Topics of Study:

Level I: Students learn basic human anatomy and physiology, medical terminology, and growth and development across the lifespan. This year is the foundation for their chosen health care occupation.

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Heating, Ventilation and Air Conditioning (HVAC)	Course Code:	
Prerequisites:	Course Credits:	

The Heating, Ventilation, and Air Conditioning program prepares individuals to apply technical knowledge and skills to install, repair, and maintain commercial and domestic heating, air conditioning, and refrigeration systems. Instruction includes theory and application of basic principles involved in conditioning of air (cooling and heating); filtering and controlling humidity; operating characteristics of various units and parts; blueprint reading; use of technical reference manuals; the diagnosis of malfunctions; overhaul, repair and adjustment of units and parts such as pumps, compressors, valves, springs and connections; and repair of electric, electronic and pneumatic control systems. The use of books, catalogs and electronic resources are an important component of instruction.

Topics of Study:

Level I:

- Introduction to HVAC

- Basic Safety
- Tools for HVAC/R
- Blueprint Reading
- Piping Practices
- Basic Electricity
- Computer Fundamentals

Level II:

- Introduction to HVAC
- Basic Safety
- Blueprint Reading
- Basic Electricity
- Introduction to Cooling
- Leak Detection, Evacuation, Recovery, and

Level III:

- Introduction to HVAC
- Basic Safety
- Blueprint Reading
- Basic Electricity
- Introduction to Heating
- Air Distribution Systems
- Introduction to Hydronic Systems
- Troubleshoot Heating
- Troubleshoot Cooling
- Heat Pumps

Information Systems Technology-Computer Networking Infrastructure	Course Code:	
Prerequisites:	Course Credits:	
Install, repair, configure, secure and manage computer hardware, operating systems and software		

in home and corporate environments.
Learn the management of hardware and software networking components. Tasks include IP configuration, setting up wireless and wired networks, managing networks, network security and hardening.
Perform real world tasks using command line interface on Cisco Routing and Switching devices. Using network fundamentals, LAN switching Technologies, IPv4 and IPv6 routing technologies and WAN technologies.

Information Systems Technology-Cyber Security	Course Code:	
Prerequisites:	Course Credits:	

The CST class at the Career Technology Center of Lackawanna County is designed to train students in the latest computer hardware & software. Students will learn about the various hardware components used in today's computer systems. Software will include Microsoft Windows 7/8, various versions of Linux, & Microsoft Server 2012. Students will also become familiar with Microsoft Office components including Word, Excel, & Outlook. The Computer Systems Technology course is designed so that students obtain the knowledge, skills, and customer service techniques essential in becoming a successful computer support technician. Accurate record-keeping and problem-solving skills are also stressed. Students will be prepared to take industry certification exams for the CompTIA and Microsoft certifications. It is designed for those who seek entry-level positions in the labor market directly and for those who want advanced training in a post-secondary educational setting. The CST program is a CompTIA Authorized Academy. The CompTIA Academy Partner Program is designed to provide a pathway for students toward a rewarding, high-growth IT career.

Masonry	Course Code:	
Prerequisites:	Course Credits:	

The Masonry program utilizes a specialized lab and classroom for practical learning. The program includes mixing cement and concrete materials; setting and laying block, brick, chimney block, ornamental brickwork. Practice includes laying masonry units to the line; erecting walls, chimneys, brick and block piers, brick arches, plastering, stone veneer work; and

an actual working fireplace.

Students will learn how to square and build foundations, as well as forming and pouring concrete. Basic skill development in the use of trowels, brick rule, levels, transits and blueprint reading will be emphasized.

Mathematics 1	Course Code:	
Prerequisites:	Course Credits:	

The CTCLC Math Course Offerings reflect the needs of our sending districts as well as the preferences of our students. Math courses are full credit and meet daily.

The CTCLC mathematics department has two math teachers – Mrs. Lipko and Mrs. Smith. Both make a concerted effort to connect math topics in the courses with the curriculum of the labs in which the students are enrolled. Each day that a student is in the lab, that student is expected to attend math class unless prior permission has been given.

Tutoring is available to ALL students regardless of whether or not they are taking math at CTCLC. Students who are taking a placement test such as the Accu-Placer or the ASVAB test for the military are highly encouraged to attend tutoring. This tutoring is voluntary. When a student is persistently absent or is struggling with a concept, tutoring may be required.

CTCLC is willing to collaborate with districts in delivering the necessary remediation for students that need to retake the Keystone Algebra 1 exam.

Research shows that students who take four years of mathematics in high school and pass Algebra 2 have a much greater likelihood of attending and graduating from college. It also supports the fact that these students are more likely to obtain a management level position in their chosen career. Any student that plans to pursue post-secondary education is highly encouraged to take math during his/her senior year.

Mathematics 2	Course Code:	
Prerequisites: Mathematics 1	Course Credits:	

The CTCLC Math Course Offerings reflect the needs of our sending districts as well as the preferences of our students. Math courses are full credit and meet daily.

The CTCLC mathematics department has two math teachers – Mrs. Lipko and Mrs. Smith. Both make a concerted effort to connect math topics in the courses with the curriculum of the labs in which the students are enrolled. Each day that a student is in the lab, that student is expected to attend math class unless prior permission has been given.

Tutoring is available to ALL students regardless of whether or not they are taking math at CTCLC. Students who are taking a placement test such as the Accu-Placer or the ASVAB test for the military are highly encouraged to attend tutoring. This tutoring is voluntary. When a student is persistently absent or is struggling with a concept, tutoring may be required.

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Plumbing and Heating	Course Code:	
Prerequisites:	Course Credits:	

The Plumbing and Heating 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.

The Curriculum also includes the design and installation of steam, hydronic, and warm air heating systems. Efficiency testing, adjustment of oil and gas fired boilers, furnaces and operating controls are covered extensively. The use of manuals, books and catalogs is also an important segment of instruction.

Protective Services	Course Code:	
Prerequisites:	Course Credits:	

The Protective Services Occupations program provides students with training required to perform entry-level duties as a police officer, firefighter, 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. The instruction covers communication skills, social and psychological skills, equipment operations, the judicial system, pre-hospital emergency care, appropriate emergency assessment, treatment, and communication. Special emphasis is placed on safety, physical development, and self-confidence skills, due to the nature of the specific occupation(s). The majority of activities and exercises are hands-on and protective

clothing is provided when necessary. Although many of the activities are hands-on, the student will also be required to complete the related theory and reading that is critical for successful completion of this course.

The program has a specialized lab area for practical learning experiences including a smoke house used for searches and venting, laddering windows and roofs, hoseline advancement, safe fireground scenarios, and forcible entry. The other sections of the facility are used for handcuffing procedures, crime scene investigation, evidence collections, photographic evidence, documentation skills and report writing, safety checks of the facility, and PowerPoint presentations. During EMS, the students have equipment to properly obtain a patient's vitals and scenarios on how to provide care for a patient. The students also complete a physical fitness test that is constructed by the students. The test is built from several area standards from the State Police, County Police, Military, and Firefighting PT standards.

Service Occupations	Course Code:	
Prerequisites:	Course Credits:	

The Service Occupations Education program provides students with the opportunity to explore different career pathways in the personal service cluster and gain competitive employability skills needed for job seeking. This program provides instruction in the fields of custodial services, commercial laundry, distribution of goods, housekeeping, and office skills/clerical procedures. Students learn hands-on skills in a lab setting and participate in related activities within a school setting. The program stresses workplace skills, the development of good work habits, and the ability to work cooperatively.

Welding	Course Code:	
Prerequisites:	Course Credits:	

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

Students start with planning and layout work, then progress to setting up and operating welding and cutting (Oxy-Fuel, and Plasma) equipment. The students learn Shielded metal arc as well as Mig solid wire, Flux core, and Tig welding in all positions. Some of the metals we weld with are Carbon Steel, Aluminum, Stainless Steel, and Cast Iron, to name a few. Emphasis is placed on safety as well as blueprint reading, properties of metal, metal identification, type and use of

electrodes, welding rods, electrical principles, and welding symbols.

The use of manuals, specification charts, and understanding the welding standards established by the American Welding Society and the American Society of Mechanical Engineers are also stressed. Training in the planning, layout, forming, joining, and fabrication of various shapes in light and heavy gauge metal and pipe is provided. Students are exposed to the use of specialized hand tools, shears, forming and shaping machines, drill presses, and metal cutting saws. Inspection and testing processes as well as procedures are also demonstrated and explained.

The students will work on various projects throughout the time they are enrolled in the Welding program. We work on projects for the school, other teachers, students, outside customers, etc.