

Lake-Lehman

Senior High School



2025-2026

Curriculum Guide

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Science Department

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Mr. William Evans
Mrs. April Eckert
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Mr. Shane Kupsky

Music Department

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Mr. Matthew Shaul

Family/Consumer Science Department

Mrs. Sandra Gromniak

Technology Department

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Physical Education Department

Mr. Robert Carr
Mr. Paul Venetz

Special Education Department

Ms. Jill Little	Dr. Tracie Davis
Mrs. Christina Goble	Mrs. Savannah Harrison
Mr. Joseph Nice	Mrs. Sarah Pryor
Mr. Matthew Matusick	Mrs. Caroline Perillo
Mrs. Cecelia Jennings	

LAKE-LEHMAN SCHOOL DISTRICT MISSION

The Mission of the Lake-Lehman School District is to inspire students to achieve personal fulfillment through the context of community, mastery, independence and generosity within a safe learning environment.

LAKE-LEHMAN SCHOOL DISTRICT CIVIL RIGHTS POLICY

The policy of the Lake-Lehman School District is to guarantee to all persons equal access to all categories of employment in this district, regardless of race, color, age, creed, religion, gender, sexual orientation, ancestry, national origin or handicap/disability.

In order to achieve the aforementioned goal, the Board directs the Superintendent to assume the responsibility of coordinating all implementing activities as Compliance Officer.

The Compliance Office shall publish and disseminate this policy at least annually to students, parents, and employees. The publication shall include the name, office address and telephone number of the Compliance Officer.

LAKE-LEHMAN SCHOOL DISTRICT EDUCATIONAL GOALS

- Utilize our community resources to enhance academic programming
- Provide professional learning opportunities that support teachers in implementing instruction
- Design a rigorous curriculum aligned with state and national content and teaching standards
- Expand and enhance learning experience and opportunities to challenge all students, including LEP (Limited English Proficiency) students.

LAKE-LEHMAN SCHOOL DISTRICT ORGANIZATIONAL GOALS

- Increase active parental and community participation in our schools
- Increase the number and fiscal resources for the school district
- Provide a healthy and safe environment for students, parents and faculty
- Identify and meet the educational needs of all students, including LEP students

Course Selection and Student Scheduling Reminders

- Students are encouraged to make selections based on careful deliberation as to which courses will best enable them to achieve their future goals.
- The master schedule and the assignment of faculty are based on students' course selections. This is why we cannot allow schedule changes after the Master Schedule is complete, unless the following applies:
 - Should a student attend summer school, she/he will be permitted to change courses to accommodate those completed in summer school. **SUMMER SCHOOL COURSES MUST BE COMPLETED PRIOR TO THE START OF THE SCHOOL YEAR.**
 - Student schedules found to be in conflict or in error will be adjusted in order to complete a student's schedule.
- **PLEASE NOTE:** Many colleges, universities and career and technical programs have established minimum requirements for acceptance that exceed our school district requirements; for example, many schools require 2 years of a foreign language. Students are responsible, with the assistance of their parents and school counselor, to determine the requirements of their specific colleges and their career programs of interest.

PLEASE NOTE THAT THE COURSES LISTED IN THIS CURRICULUM GUIDE ARE TENTATIVE AND SUBJECT TO SUFFICIENT ENROLLMENT AND THE AVAILABILITY OF FACILITIES AND FACULTY.

Course Progressions Guide

COLLEGE PREP

The academic program will prepare students to demonstrate mastery of all graduation standards through both theoretical and hands-on applications. This program will stress the discovery of scientific principles, the development of mathematical proofs, the rationale of literary criticism, and the understanding of principles of the social sciences. The academic program is designed to prepare students to enter a post-secondary education.

Grade	English Language Arts (ELA)	Mathematics	Science	Social Studies
9	ELA 9	Intro to Algebra Algebra I Algebra II	Biology	World History
10	ELA 10	Algebra I Algebra II Geometry	Earth & Space Chemistry	Civics & Geography
11	ELA 11	Geometry/Basic Geometry Pre-Calculus Statistics	Applied Chemistry Chemistry Physics Anatomy & Physiology Zoology Environmental Science	20th Cent American Cultures
12	ELA 12	Pre-Calculus Calculus Statistics Personal Finance	Physics Anatomy & Physiology Zoology Environmental Science	Civics & Government

Course Progressions Guide

HONORS

The Lake-Lehman School District provides Honors and Advanced Placement courses for students with high academic potential. Due to the demands of these courses, weighted grades are used to acknowledge student achievement. The AP programs follow the College Examination Board standards. The content of these courses is predetermined and students are encouraged to take the AP test that most colleges recognize and use to determine placement in their programs.

Grade	English Language Arts (ELA)	Mathematics	Science	Social Studies
9	Honors ELA 9	Honors Algebra II	Honors Biology	Honors World History
10	Honors ELA 10	Honors Geometry	Honors Earth & Space Honors Chemistry	Honors Civics & Geography
11	Honors ELA 11	Honors Pre-Calculus	Honors Chemistry Honors Anatomy & Physiology Honors Physics Honors Environmental AP Chemistry AP Environmental Science	Honors 20th Cent American Cultures AP US History AP Government
12	Honors ELA 12 AP Literature	Calculus AP Calculus	Honors Anatomy & Physiology Honors Physics Honors Physics II Honors Environmental AP Chemistry AP Environmental Science AP Biology	AP US History AP Government

All Lake-Lehman High School students must meet both the required number of credits per year cumulatively and pass all required courses. Listed below are the required classes each student must take and pass in order to graduate from Lake-Lehman Junior-Senior High School. The curriculum and credit values may be adjusted pending Administrative, State Requirements and/or School Board approval. In addition, information next to asterisks is a graduation requirement. Please note that any student who has taken Personal Finance will not take Financial Literacy, therefore, meeting the **23.89** required credits for graduation. If you have not taken Personal Finance, you must take Financial Literacy, therefore, meeting the **24.39** required credits for graduation.

Class of 2026-	IS Freshman Careers	.130 Credits	
	IS Sophomore Careers	.130 Credits	
	IS Junior Careers	.130 Credits	
	Child Development	.250 Credits	*Financial Literacy (.50) unless taking Personal Finance
	Character Development	.250 Credits	
	Wellness 10	.250 Credits	
	Wellness 12	.250 Credits	*Senior Project Completion
	Language Arts	4.000 Credits	
	Mathematics	4.000 Credits	*Meet Act 158 Graduation Pathways
	Science	4.000 Credits	
	Social Studies	3.500 Credits	
	Electives	6.000 Credits	
Physical Education	1.000 Credits		
		Total Credits Required	23.89 or 24.39
Class of 2027-	IS Freshman Careers	.130 Credits	
	IS Sophomore Careers	.130 Credits	
	IS Junior Careers	.130 Credits	
	Child Development	.250 Credits	*Financial Literacy (.50) unless taking Personal Finance
	Character Development	.250 Credits	
	Wellness 10	.250 Credits	
	Wellness 12	.250 Credits	*Senior Project Completion
	Language Arts	4.000 Credits	
	Mathematics	4.000 Credits	*Meet Act 158 Graduation Pathways
	Science	4.000 Credits	
	Social Studies	3.500 Credits	
	Electives	6.000 Credits	
Physical Education	1.000 Credits		
		Total Credits Required	23.89 or 24.39
Class of 2028-	IS Freshman Careers	.130 Credits	
	IS Sophomore Careers	.130 Credits	
	IS Junior Careers	.130 Credits	
	Child Development	.250 Credits	*Financial Literacy (.50) unless taking Personal Finance
	Character Development	.250 Credits	
	Wellness 10	.250 Credits	
	Wellness 12	.250 Credits	*Senior Project Completion
	Language Arts	4.000 Credits	
	Mathematics	4.000 Credits	*Meet Act 158 Graduation Pathways
	Science	4.000 Credits	
	Social Studies	3.500 Credits	
	Electives	6.000 Credits	
Physical Education	1.000 Credits		
		Total Credits Required	23.89 or 24.39
Class of 2029-	IS Freshman Careers	.130 Credits	
	IS Sophomore Careers	.130 Credits	
	IS Junior Careers	.130 Credits	
	Child Development	.250 Credits	*Financial Literacy (.50) unless taking Personal Finance
	Character Development	.250 Credits	
	Wellness 10	.250 Credits	
	Wellness 12	.250 Credits	*Senior Project Completion
	Language Arts	4.000 Credits	
	Mathematics	4.000 Credits	*Meet Act 158 Graduation Pathways
	Science	4.000 Credits	
	Social Studies	3.500 Credits	
	Electives	6.000 Credits	
Physical Education	1.000 Credits		
		Total Credits Required	23.89 or 24.39

College and Post-Secondary Program Timetables

Listed below are timetables and activities for students considering college and other post-secondary programs:

Ninth Grade

- Take a world language.
- Take challenging courses.
- Get involved with school activities that sharpen your critical thinking skills and leadership ability.
- Take advantage of teacher support by staying after school and getting extra help.
- Begin to discuss career goals with your parents and counselor.
- Begin to organize personal activities/ accomplishments for résumé.

Tenth Grade

- Continue to take a world language and challenging courses.
- Take the PSAT in October as practice for the SAT and/or ACT.
- Potential Division I, IAA, and II college bound athletes must register with the NCAA Eligibility Center.
- Begin to build a résumé that includes in-school as well as out of school activities and work/volunteer experience.

Eleventh Grade

- Take the PSAT in October.
- Take the SAT and/or the ACT in the spring.
- Explore college possibilities-develop a list of options.
- Begin to narrow down your choices.
- Attend college fairs.
- Obtain information on college costs and financial aid.
- Attend seminars and workshops on financial aid.
- Investigate all scholarship possibilities.
- Participate in college visits and tours.

Twelfth Grade

- Take the SAT and/or ACT.
- Apply to Colleges, Universities and/or programs of choice.
- Request letters of recommendations a month prior to due date.
- Tour your final college selections over the winter break.
- Student athletes need to complete their NCAA Eligibility Center forms to determine eligibility.
- Submit a Free Application for Federal Student Aid (FAFSA) and a Financial Aid Form (FAF) and make copies of all tax forms.
- Submit all scholarship applications and be sure to meet all deadlines.
- Check with colleges to determine if all necessary application materials have been submitted.
- Inform counselor of your final college choice.
- Request that the final high school transcript be sent to the college of your choice.
- Obtain information regarding summer orientation activities of your chosen college.

Senior Project

Each school district, including charter schools, shall specify requirements for graduation in their strategic plan.

- Requirements shall include: **course completion and grades, completion of a culminating project, and results of assessments aligned with the academic standards.**
- A student may select from the following project types for his or her senior project: **community-service based, project based, or research based.**
- A student shall complete a project in one or more areas of concentrated study under the guidance and direction of the high school faculty.
- Projects may be undertaken by individual students or groups of students.
- The purpose of the project will include research, writing, and applying technology.
- Each student will present his or her project to a group of faculty members.
- The purpose of the culminating project is to assure that the student is able to apply, analyze, synthesize and evaluate information and communicate significant knowledge and understanding.
- These outlined conditions are explained in detail in the senior project booklet.

Graduation from Lake-Lehman Junior-Senior High School is contingent upon the satisfactory completion of the senior project. Students will receive a pass/fail grade. There is no credit value attached to the Senior Project.

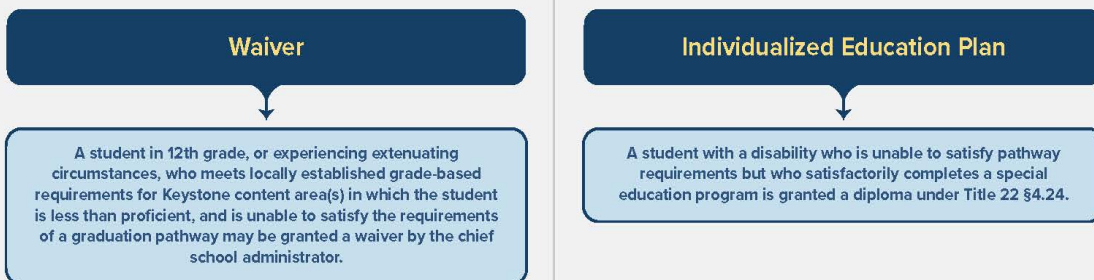
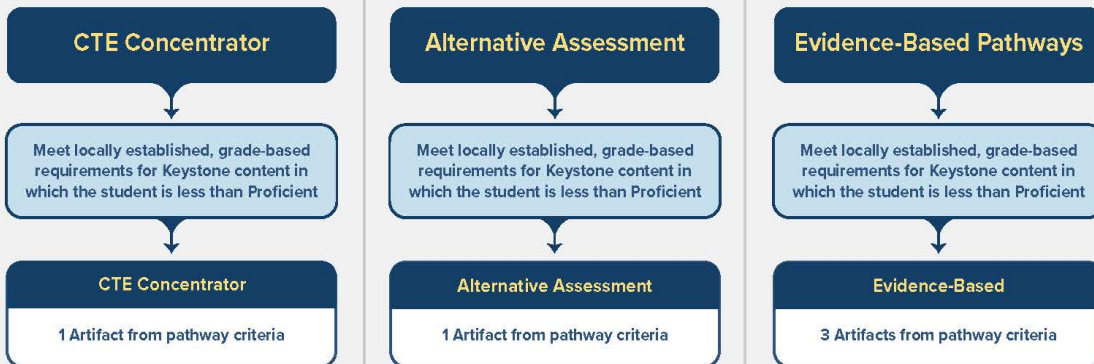
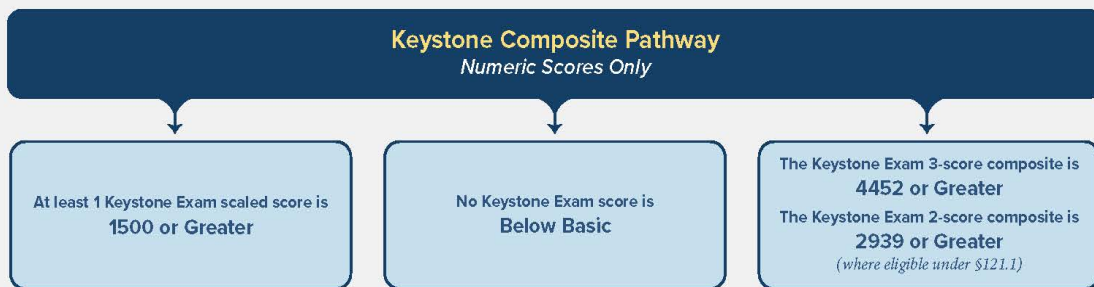
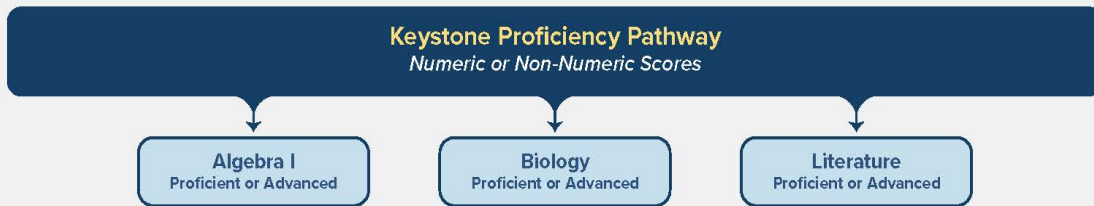
*** Although the Pennsylvania Department of Education has eliminated the requirement of a graduation project beginning with the class of 2017, the Lake-Lehman School District continues to require a senior project as part of graduation requirements.**

Pennsylvania's Guide to Meeting Act 158 Graduation Pathways

*** All PA public school students are required to meet 1 of the 5 Pathway options for graduation eligibility.



Pennsylvania Pathways to Graduation



NOTE: Although this infographic displays a sequential progression, students may fulfill criteria under the CTE Concentrator, Alternative Assessment, or Evidence-Based Pathways prior to demonstrating proficiency in Keystone academic content through Keystone Exam scores or locally established grade-based requirements.



Pathway Criteria

CTE Concentrator	Alternative Assessment	Evidence-Based
<p style="text-align: center;">1 Artifact</p>	<p style="text-align: center;">1 Artifact</p>	<p style="text-align: center;">3 Artifacts consistent w/student goals ONE or more from Section One No more than TWO from Section Two</p>
<p>Industry-based competency certification</p> <hr/> <p>Likelihood of industry-based competency assessment success</p> <hr/> <p>Readiness for continued engagement in CTE Concentrator program of study</p>	<p>Attainment of one alternative assessment score or better: ACT (21), ASVAB AFQT (31), PSAT/NMSQT (970), or SAT (1010)</p> <hr/> <p>Attainment of Gold Level or better on ACT WorkKeys</p> <hr/> <p>Attainment of 3 or better on AP Exam(s) related to each Keystone content area in which less than Proficient</p> <hr/> <p>Attainment of 4 or better on IB Exam(s) related to each Keystone content area in which less than Proficient</p> <hr/> <p>Successful completion of concurrent enrollment course(s) related to each Keystone content area in which less than Proficient</p> <hr/> <p>Successful completion of a pre-apprenticeship program</p> <hr/> <p>Acceptance into accredited, non-profit Institution of Higher Education (IHE) 4yr program for college-level coursework</p>	<p style="text-align: center;">Section 1</p> <hr/> <p>Attainment of 630 or better on any SAT Subject Test</p> <hr/> <p>Attainment of Silver Level or better on ACT WorkKeys</p> <hr/> <p>Attainment of 3 or better on any AP Exam</p> <hr/> <p>Attainment of 3 or better on any IB Exam</p> <hr/> <p>Successful completion of any concurrent enrollment or postsecondary course</p> <hr/> <p>Industry-recognized credentialization</p> <hr/> <p>Acceptance into accredited, non-profit Institution of Higher Education (IHE) for college-level coursework in an other-than-4yr program</p> <hr/> <p style="text-align: center;">Section 2</p> <hr/> <p>Attainment of Proficient or Advanced on any Keystone Exam</p> <hr/> <p>Successful completion of a service-learning project</p> <hr/> <p>Letter guaranteeing full-time employment or military enlistment</p> <hr/> <p>Completion of an internship, externship, or cooperative education program</p> <hr/> <p>Compliance with NCAA Division II academic requirements</p>

High School Yearly Promotion

A student graduates from high school through the accumulation of credits and the fulfillment of required courses. A student's grade level is determined by the year of attendance upon entering high school. Students who do not meet the total number of required credits in their senior year will remain a senior until the requirements are fulfilled. Below is the minimum credit requirements to stay on schedule for graduation within 4 years:

- Freshman 6.63 credits
- Sophomore 6.63 credits
- Junior 6.63 credits
- Senior 5.00 credits

Grading Scale

A	93%	to	100%	(Advanced)
B	84%	to	92%	(Proficient)
C	76%	to	83%	(Basic)
D	70%	to	75%	(Below Basic)
F	0%	to	69%	(Failure)
P	Pass			
F	Fail			
I	Incomplete			
WA	Withdraw Attendance			
WF	Withdraw Failure			
WP	Withdraw Pass			
M	Medical			

Grade Point Average (GPA)

Your GPA is calculated by adding the total number of quality points earned and dividing them by the credit value of the courses taken. No pass fail courses are included in the GPA calculation. For a more detailed example of GPA calculation information, please refer to the Lake-Lehman Student Handbook.

HONOR ROLL

Principals Honor Roll	98%-100%
High Honors	93%-97%
Honors	86%-92%

Students who receive a 'D', 'F', 'I' in any subject are not eligible for the honor roll.

NCAA Eligibility

If you are planning to enroll in college as a freshman and wish to participate in Division I, IAA, or II athletics, you must be certified by the [NCAA Eligibility Center](#).

- To register, complete the online form at www.eligibilitycenter.org.
- Be sure to download the "Request for Transcript" section and submit it to the High School Guidance office along with your profile number. **The NCAA will not process your application without your transcript.**

Grading System

Quality points are based on a Modified 4.0 scale.

Full Credit 1.00 Class

Start	Regular	Honors	AP
100	4	4.5	5
99	3.95	4.45	4.95
98	3.9	4.4	4.9
97	3.8	4.3	4.8
96	3.75	4.25	4.75
95	3.7	4.2	4.7
94	3.65	4.15	4.65
93	3.6	4.1	4.6
92	3.5	4	4.5
91	3.4	3.9	4.4
90	3.3	3.8	4.3
89	3.25	3.75	4.25
88	3.2	3.7	4.2
87	3.1	3.6	4.1
86	3	3.5	4
85	2.9	3.4	3.9
84	2.8	3.3	3.8
83	2.7	3.2	3.7
82	2.6	3.1	3.6
81	2.5	3	3.5
80	2.4	2.9	3.4
79	2.3	2.8	3.3
78	2.2	2.7	3.2
77	2.1	2.6	3.1
76	2	2.5	3
75	1.9	2.4	2.9
74	1.8	2.3	2.8
73	1.7	2.2	2.7
72	1.5	2	2.5
71	1.3	1.8	2.3
70	1	1.5	2
64	0.9	1.4	1.9
57	0.8	1.3	1.8
50	0.7	1.2	1.7
43	0.6	1.1	1.6
36	0.5	1	1.5
29	0.4	0.9	1.4
21	0.3	0.8	1.3
14	0.2	0.7	1.2
7	0.1	0.6	1.1
0	0	0.5	1

Half Credit .50 Class

Regular	Honors	AP
2	2.25	2.5
1.975	2.225	2.475
1.95	2.2	2.45
1.9	2.15	2.4
1.875	2.125	2.375
1.85	2.1	2.35
1.825	2.075	2.325
1.8	2.05	2.3
1.75	2	2.25
1.7	1.95	2.2
1.65	1.9	2.15
1.625	1.875	2.125
1.6	1.85	2.1
1.55	1.8	2.05
1.5	1.75	2
1.45	1.7	1.95
1.4	1.65	1.9
1.35	1.6	1.85
1.3	1.55	1.8
1.25	1.5	1.75
1.2	1.45	1.7
1.15	1.4	1.65
1.1	1.35	1.6
1.05	1.3	1.55
1	1.25	1.5
0.95	1.2	1.45
0.9	1.15	1.4
0.85	1.1	1.35
0.75	1	1.25
0.65	0.9	1.15
0.5	0.75	1
0.45	0.7	0.95
0.4	0.65	0.9
0.35	0.6	0.85
0.3	0.55	0.8
0.25	0.5	0.75
0.2	0.45	0.7
0.15	0.4	0.65
0.1	0.35	0.6
0.05	0.3	0.55
0	0.25	0.5

Qtr Credit .25 Class

Regular	Honors	AP
1	1.125	1.25
0.9875	1.1125	1.2375
0.975	1.1	1.225
0.95	1.075	1.2
0.9375	1.0625	1.1875
0.925	1.05	1.175
0.9125	1.0375	1.1625
0.9	1.025	1.15
0.875	1	1.125
0.85	0.975	1.1
0.825	0.95	1.075
0.8125	0.9375	1.0625
0.8	0.925	1.05
0.775	0.9	1.025
0.75	0.875	1
0.725	0.85	0.975
0.7	0.825	0.95
0.675	0.8	0.925
0.65	0.775	0.9
0.625	0.75	0.875
0.6	0.725	0.85
0.575	0.7	0.825
0.55	0.675	0.8
0.525	0.65	0.775
0.5	0.625	0.75
0.475	0.6	0.725
0.45	0.575	0.7
0.425	0.55	0.675
0.375	0.5	0.625
0.325	0.45	0.575
0.25	0.375	0.5
0.225	0.35	0.475
0.2	0.325	0.45
0.175	0.3	0.425
0.15	0.275	0.4
0.125	0.25	0.375
0.1	0.225	0.35
0.075	0.2	0.325
0.05	0.175	0.3
0.025	0.15	0.275
0	0.125	0.25

Grade Point Average (GPA) Calculation

- GPA is calculated by totaling the quality points earned and dividing that sum by the total credits earned excluding Pass/Fail courses. See **Table B** for example, $74.12625/18.5=4.008$ rounds up to 4.01.
- The quality point values for each course can be found on the **Quality Point Acceleration Table, page 13**. Keep in mind that the quality point values adjust based on the credit value of the course. If this were a half year course you would multiply 3.75 by .5=1.875 and by .25=.9375 for a quarter year course.

Table A- Official Transcript

Course	Final Grade	Crdt Ernd	Crdt Atmpt
Lake-Lehman Senior High School - 2014 - 2015			
ALGEBRA II	99	1.00	1.00
ART I	100	1.00	1.00
FRESH EXPER	P	0.13	0.13
HON BIOLOGY	96	1.00	1.00
HONORS ENG 9	93	1.00	1.00
PE- 09/10	P	0.50	0.50
SPANISH I	98	1.00	1.00
WLD HIST 9	98	1.00	1.00
Weighted GPA	4.0167	6.63	6.63
Cumulative Weighted GPA	4.0167		
2015 - 2016			
Child Dev 10	100	0.25	0.25
HON CHEM	96	1.00	1.00
HON CIV&GEO	99	1.00	1.00
HON E/S SCI	94	1.00	1.00
HON GEOMETRY	91	1.00	1.00
HONORS ENGLISH 10	98	1.00	1.00
PE- 09/10	P	0.50	0.50
SPANISH II	98	1.00	1.00
Well 10	99	0.25	0.25
Weighted GPA	4.1596	7.00	7.00
Cumulative Weighted GPA	4.0910		
2016 - 2017 (Current Year)			
AP CHEMISTRY	88	1.00	1.00
AP US HISTOR	86	1.00	1.00

Table B- Course Information Chart

Course Name	Grade	Course Level	Credits Attempted	Credits Earned
Previous School Year				
ALGEBRA II	99	REGULAR	1	
ART I	100	REGULAR	1	
HONORS BIOLOGY	96	HONORS	1	
HONORS ENGLISH 9	93	HONORS	1	
SPANISH I	98	REGULAR	1	
WORLD HISTORY 9	98	REGULAR	1	
Previous School Year				
CHILD DEVELOPMENT	100	REGULAR	0.25	C
HONORS CHEMISTRY	96	HONORS	1	
HONORS CIVICS & GEOGRAPHY	99	HONORS	1	
HONORS EARTH&SPACE SCIENCE	94	HONORS	1	
HONORS ENGLISH 10	98	HONORS	1	
HONORS GEOMETRY	91	HONORS	1	
SPANISH II	98	REGULAR	1	
WELLNESS 10	99	REGULAR	0.25	C
Current School Year				
AP CHEMISTRY	88	AP	1	
AP UNITED STATES HISTORY	86	AP	1	
HONORS AMERICAN LITERATURE 11	95	HONORS	0.5	
HONORS PHYSICS	87	HONORS	1	

Programs and Services

Lake-Lehman Junior-Senior High School offers multiple programs of study in order to meet the diverse needs of our student population.

Gifted Program

*Identified students** will meet at least one period per six day cycle. A minimum of .25 credits will be received and credit value will increase based on hours of instruction for each year of participation. Higher level thinking skills will be stressed along with relevant topics selected each year through the student's GIEP. In addition, students are encouraged to participate in competitive community opportunities and to investigate specific topics through individual projects. They are given ample opportunity to provide service to their community and are exposed to cultural and enrichment activities by means of seminars and field trips. Mentorships may also be arranged through their department.

Learning Support and Resource Services

*Identified students** engage in one-on-one lessons with specially trained teachers. Students are involved in the following programs of study: English, Science, Social Studies, Health, Mathematics and Vocations/Careers. All programs are geared toward practical application and the acquisition of life skills. Students are also given resource periods where they receive additional support.

Emotional Support Resource Program

The Emotional Support Program has been developed for the *identified student ** who, because of social or emotional problems, has difficulty attaining his/her highest level of academic or social performance. Students are instructed with materials appropriate for their academic levels, interest levels, and learning styles. Curricular resources are made available so that the teacher has maximum flexibility in developing an appropriate program for each student. In each of the academic areas, and at each instructional level, the base of instruction is the regular program of study adapted to the individual needs of the student.

** Students who have met state-mandated criteria in three areas: achievement test scores, IQ scores, and classroom performance.*

Life Skills Support Program

This program focuses on developing independent skills for everyday life. Students will engage in an academic curriculum with a special emphasis utilizing the local community. Each student will achieve their personal best through supports and resources to prepare for post secondary life.

Inclusion Classes

This program allows special education students to be included in regular education classes. Support for these students will be provided through accommodations, adaptations, and modifications to curriculum, teaching strategies and testing.

Remedial Reading

Remedial Reading is a course designed to strengthen the fundamentals of language and reading. This course implements The Wilson Reading System (WRS). WRS explicitly and systematically teaches students how to fluently and accurately decode and spell. WRS directly addresses irregular or sight word instruction, fluency, vocabulary, oral expressive language development and comprehension. The teaching methods used are interactive and multi-sensory.

English as a Second Language (ESL) Support Program

The ESL Program is part of the core curriculum; it replaces the English planned instruction requirement under Chapter 4. The student shall receive sufficient instructional time from a certified teacher with appropriate resource materials. The teacher shall use an assessment system that monitors student progress in learning English. The ESL Program shall be evaluated annually to determine if the ESL student is achieving success in learning English. If they are not, the program will be adapted to meet their needs.

Independent Study

The Independent Study program is intended for students who desire something more advanced than, or different from, courses currently offered in our program of studies. Independent Study courses cannot substitute for an existing course or serve as a way to resolve schedule conflicts. Students must meet the requirements in their independent study contract to earn a passing grade. Independent Study grades and credits will count toward GPA and class rank but are *NOT NCAA approved*. You must have administrative approval to take an Independent Study course.

COOPERATIVE EDUCATION

Diversified Occupations

Cooperative Education is a structured method of instruction for qualified seniors combining school-based classroom learning with productive work-based learning at a training site in business and industry in an occupation matching the student learner's academic and career objective.

Cooperative Education is a partnership among students, parents/guardians, educational institutions, and employers, with specified responsibilities for each party. These include, but are not limited to:

- A written training agreement detailing responsibilities and a written training plan including work based competencies relevant to the student's career choice
- Specified minimum work periods equivalent in length to an academic term (quarter, semester, etc.)
- Recognition of an employer/employee relationship which enforces all state and federal laws- Particular attention given to the Child Labor Laws regarding work permits, working hours, insurance, worker's compensation, safety and hazardous occupations, and mandated clearances
- Work experiences monitored by the instructor and supervised by employers
- Formal recognition of the experience by the school (e.g. grade, credit hours, etc.)
- Evaluations and assessments completed by the instructor and the employer
- Remuneration for the work performed

*** Any student course selecting Diversified Occupations must have approval from their counselor. This program is run through WSCTC.

West Side Career and Technology Center



The West Side Career and Technology Center is a full-time comprehensive career and technology school. A complete academic curriculum compliments the fifteen career-technical programs. The career and technology programs at West Side CTC are available to all students in grades 9 through 12 of the member sending districts with the exception of Cosmetology which starts in 10th grade. Students must have successfully met the requirements for promotion into the ninth grade as mandated by the home district's promotion policy for admission into the programs at West Side CTC. Graduation requirements leading to the awarding of a high school diploma are as mandated by the Department of Education for all high schools in the Commonwealth of Pennsylvania. Credits earned at West Side CTC are transferable to other high schools and may be used for college admission. Graduates from West Side CTC receive both a high school diploma and a certificate indicating the hours of training that have been successfully completed in their individual CTE program.

As part of the admission process, we invite students to tour the facility with their eighth grade class during tour dates scheduled through the sending district at which they are encouraged to schedule a Shadow Day to meet our students and participate in daily shop activities. This allows students to experience one or more programs to determine first-hand if a program is a good fit for their future.

Parents/guardians may visit the website at www.wsctc.net to download and application or see their student's guidance office to obtain an application. Completed applications are due to your student's guidance office by April 15th, but consideration will be given to late applications. In order to be considered, students must complete sufficient credits to be promoted to ninth grade. Students are not guaranteed their first choice. The acceptance and placement process will be determined by, but not limited to, program availability, credit requirements, attendance, academic involvement, grades, and behavioral infractions.

Part-Time Program

Students may be eligible for part-time enrollment at West Side CTC. Students attend their sending school for their academic classes and report to West Side CTC for career and technical training. Admission to this program is limited and a consultation with both schools is necessary to review academic standards and credits.

Students Occupationally and Academically Ready (SOAR)

The Pennsylvania Department of Education (PDE) supports career and technical education students aligning their CTE courses to a college program in order to complete a degree, diploma or certificate. High School students who maintain a 2.5 GPA and pass an end of program assessment (NOCTI) with a score of competent or better can earn college credits for coursework taken at West Side CTC. Information about earning advanced credits can be viewed at www.collegetransfer.net.

Diversified Occupations

Cooperative Education is a structured method of instruction for qualified seniors combining school-based classroom learning with productive work-based learning at a training site in business and industry in an occupation matching the student learner's academic and career objective. Cooperative Education is a partnership among students, parents/guardians, educational institutions, and employers with specified responsibilities for each part.

Career and Technical Programs offered at West Side CTC

Auto Body Collision Repair Technology
 Automotive Technology
 Business Marketing
 Carpentry
 Computer Information Systems/Programming
 Computer Networking and Maintenance
 Cosmetology (10th through 12th)
 Culinary Arts
 Early Childhood Education
 Electrical Technology
 Health Related Technology

Course Descriptions

ELA 9 (11111)

COLLEGE PREPARATORY

Credit: 1

Grade 9

NCAA Approved 1 Credit**Prerequisite: None**

ELA 9 focuses on the Pennsylvania Core Standards, specifically composition standards, encompassing proper grammar, mechanics, and usage in various types of writing, including informative/ explanatory, persuasive and research-based writing. Vocabulary development, oral communication, and critical thinking skills will be enhanced throughout the course as students are exposed to all genres of literature, including fiction and nonfiction, short stories, poetry, and drama. Course average is predominantly composed of quiz, test, and essay grades.

HONORS ELA 9 (11112)

HONORS

Credit: 1

Grade 9

NCAA Approved 1 Credit**Prerequisite: Successful completion of Honors English 8 and/or Departmental Recommendation**

Honors ELA 9 encompasses the same learning outcomes as English 9, but students enrolled in Honors ELA 9 are expected to have a higher level of motivation, participation, and overall achievement, as this course is much more in-depth than English 9 and requires a greater level of independence. Students enrolled in Honors ELA 9 will write a minimum of twelve full-length essays throughout the year, as well as a full-length research paper. Greek and Latin Word Study is incorporated on a bi-weekly basis. Course average is predominantly composed of quiz, test, and essay grades.

ELA 10 (11211)

COLLEGE PREPARATORY

Credit: 1

Grade 10

NCAA Approved 1 Credit**Prerequisite: Successful completion of ELA 9**

ELA10 focuses on the Pennsylvania Core Standards for all 10th graders. This course continues the study of literature, writing, critical thinking, vocabulary, grammar, speaking, research and technology. This integrated whole language approach to literature is taught from a variety of genres, focusing on world literature from the Renaissance to modern times. Successful completion of the Keystone Literature Assessment is expected at the culmination of the course. Additional resources utilized in the course include Study Island and Pearson Online.

HONORS ELA 10 (11212)

HONORS

Credit: 1

Grade 10

NCAA Approved 1 Credit**Prerequisite: Successful completion of Honors ELA 9, and/or Departmental Recommendation**

ELA 10 focuses on the Pennsylvania Core Standards for all 10th graders. This course continues the study of literature, writing, critical thinking, vocabulary, grammar, speaking, research and technology. This integrated whole language approach to literature is taught from a variety of genres, focusing on world literature from the Renaissance to modern times. Honors students are expected to have a higher level of motivation, participation, and overall achievement, as this course is much more in-depth than English 10. Successful completion of the Keystone Literature Assessment is expected at the culmination of the course. Additional resources utilized in the course include Study Island and Pearson Online.

ELA 11 (11311)

COLLEGE PREPARATORY

Credit: 1

Grade 11

NCAA Approved 1.00 Credit**Prerequisite: ELA 10 or Honors ELA 10**

This course focuses on the Pennsylvania Core Standards for all 11th graders. This integrated whole-language approach encompasses grammar, composition, literature, critical thinking skills, vocabulary development, and oral communication. English Language Arts 11 will emphasize the study of classic novels, drama and poetry, preparation for college entrance exams like the SAT and ACT, writing of essays, including MLA and APA formatted research papers, creation of projects, and development of presentation skills.

HONORS ELA 11 (11312)

HONORS

Credit: 1

Grade 11

NCAA Approved 1.00 Credit**Prerequisite: Successful completion of Honors ELA 11 and/or Departmental Recommendation**

Honors ELA 11 is designed for the highly-motivated college-bound students seeking a reading and writing intensive curriculum and focuses on the PA Core Standards for all 11th graders. This integrated whole-language approach encompasses grammar, composition, literature, critical thinking skills, vocabulary development, and oral communication. Honors ELA 11 will emphasize the study of classic novels, drama and poetry, preparation for college entrance exams like the SAT and ACT, writing of essays, including MLA and APA formatted research papers, creation of projects, and development of presentation skills. Students enrolled in Honors ELA 11 are expected to have a higher level of motivation, participation, and overall achievement, as this course is much more in-depth than ELA 11 and requires a greater level of independence.

ELA 12 (11411)

COLLEGE PREPARATORY

Credit: 1

Grade 12

NCAA Approved 1.00 Credit**Prerequisite: ELA 11 or Honors ELA 11**

This course reflects the Pennsylvania Core Standards and features an intensive study of literature from multiple genres. With a focus on reading independently, students will learn to critically analyze text and showcase their understanding through various projects, presentations and writing assignments in both MLA and APA style. The goal of this course is to prepare the students for the college or career setting, with an emphasis placed on reading, writing, research, critical thinking skills, and communication.

HONORS ELA 12 (11412)

HONORS

Credit: 1

Grade 12

NCAA Approved 1.00 Credit**Prerequisite: Successful completion of Honors ELA 11 and/or Departmental Recommendation**

Honors ELA 12 is a course designed for the highly-motivated, college bound student who is willing to work at an intensive pace and produce a substantial amount of work both in and out of the classroom. Reflecting the Pennsylvania Core Standards and featuring a rigorous study of literature from multiple genres, students will become familiar with many famous works of literature. Students will critically analyze the text through independent reading assignments and share their thoughts through various writing activities in both MLA and APA style, aimed at preparing them for the types of writing they will be expected to showcase at the college level. Acceptance into this course is contingent upon faculty recommendation.

AP ENGLISH LITERATURE AND COMPOSITION (11423)

ADVANCED PLACEMENT

Credit: 1

Grade 12

NCAA Approved 1 Credit**Prerequisite: Completion of summer reading and writing assignment.**

This course has received official authorization by the College Board as an AP Course. This course enables high school students to complete a college-level class and permits colleges to evaluate and acknowledge that accomplishment by granting appropriate credit and/or placement. It is designed for the serious student who has the ability and desire to pursue rigorous study. AP English prepares students to read literature in order to experience, interpret, and evaluate it, and to write and speak about literature in order to understand, explain, analyze, and appraise it. Emphasis is placed on representative works of literary merit, reflecting varied genres, time periods, and nationalities. An interactive classroom and alternative assessments are utilized to employ higher ordered thinking.

WORLD HISTORY (12111)

COLLEGE PREPARATORY

Credit: 1

Grade 9

NCAA Approved 1 Credit

Prerequisite: None

This course is designed to offer an economic, political, geographic, and social history of western civilization beginning with antiquities and highlighting key historical points in Ancient Greece, Rome, the Renaissance, the Reformation, Religious Wars, Age of Absolutism, the Enlightenment, French Revolution, and the Napoleonic Wars. Students will explore history through primary source documents, map analysis, and key historical writings .

HONORS WORLD HISTORY (12112)

HONORS

Credit: 1

Grade 9

NCAA Approved 1 Credit

Prerequisite: Successful completion of Honors 8th Grade History and/or Departmental Recommendation

This course is a challenging alternative to the traditional World History 9 course with an appeal to the motivated and independent learner. Students will explore all of the topics covered during World History 9 in greater depth and focus. Students will be required to demonstrate their knowledge of economic, political, and social developments throughout history with a direct emphasis on reading, writing, and the research process. Critical thinking skills and self-directed learning will be mastered through activities involving advanced geographical studies and examination of the relationship between historical and current events.

CIVICS & GEOGRAPHY (12211)

COLLEGE PREPARATORY

Credit: 1

Grade 10

NCAA Approved 1 Credit

Prerequisite: Successful completion of World History

This course is divided into two one semester courses. The purpose of Geography is to introduce the student to the major geo-political and socio-geographic implications and developments in North and South America. The purpose of Civics is to engender an intelligent and critical understanding of the political and legal system. This course focuses on many aspects of citizenship and government. Specifically, the course will address the foundations of the American political system.

HONORS CIVICS & GEOGRAPHY (12212)

HONORS

Credit: 1

Grade 10

NCAA Approved 1 Credit

Prerequisite: Successful completion of Honors World History, and/or Departmental Recommendation

This intellectually intensive course is designed to instill in the student an awareness of the complexities of the cultural and physical geography in North and South America and to engender an intelligent and critical understanding of the interdependent relationship between the physical features and the human element. The highly motivated student will research, analyze, interpret, and assess the five themes of geography, including location and place. Special emphasis is placed on the human-environment interaction.

20th CENTURY AMERICAN CULTURES (12311)

COLLEGE PREPARATORY

Credit: 1

Grade 11

NCAA Approved 1 Credit

Prerequisite: Civics and Geography

This course is a concentrated examination of how the 20th century became the "American Century". The course begins with a study of the Imperialism that pushed America onto the world stage with the Spanish American War. While focusing on political and economic history, this course will include a study of American culture and its diversity. Students will develop a better understanding of what it means to be an American.

INTRODUCTION TO ALGEBRA I (13114)

COLLEGE PREPARATORY

Credit: 1

Grade 9

NCAA APPROVED .5 Credit

Prerequisite: Teacher Recommendation

Core Introduction to Algebra I is designed to provide the student with the basic concepts of Algebra. The course will progress at a more deliberate pace than Algebra I and Honors Algebra I. The course will begin with reinforcement of basic math skills and will provide a smooth transition from arithmetic to algebra. Topics will include simplifying & evaluating expressions, solving, graphing & writing linear equations and inequalities and systems of equations and inequalities.

ALGEBRA I (13131)

COLLEGE PREPARATORY

Credit: 1

Grades 9, 10

NCAA Approved 1 Credit

Prerequisite: Math 8

Algebra I is an in-depth discussion of the fundamentals of algebra with an emphasis on preparation for the Keystone Exam. This course builds the foundation for all future mathematics courses by applying the fundamental operations of arithmetic to algebraic techniques. Emphasis is placed on simplifying & evaluating expressions, solving, graphing & writing linear equations and inequalities and systems of equations and inequalities, polynomial operations, factoring, data analysis and probability. Successful completion of the Keystone Algebra I Assessment is expected at the culmination of the course.

ALGEBRA II (13211)

COLLEGE PREPARATORY

Credit: 1

Grades 9, 10, 11,12

NCAA Approved 1 Credit

Prerequisite: Algebra I or Honors Algebra I

This course is an extension of the concepts developed in the Algebra I course. The course introduces the graphing of linear functions and the solutions to systems of linear equations and inequalities.

Emphasis is placed on methods of factoring polynomial expressions, solving polynomial equations, irrational and complex numbers, and quadratic functions.

HONORS ALGEBRA II (13212)

HONORS

Credit: 1

Grade 9

NCAA Approved 1 Credit

Prerequisite: Successful completion of Honors Algebra I or Dept. Chair Recommendation

This course is an extension of the concepts covered in the Algebra I Honors course. This course introduces the graphing of linear functions and inequalities. Topics explored include factorization of polynomial and rational expressions, solving polynomial equations, and irrational and complex numbers. Algebra II Honors will address topics in triangle trigonometry, exponential and logarithmic functions, and sequences and series of numbers.

Geometry/Basic (13311)

COLLEGE PREPARATORY

Credit: 1

Grades 10,11

NCAA Approved 1 Credit

Prerequisite: Teacher Recommendation

This course is designed to provide the student with basic concepts of geometry. The course progresses from the undefined terms of point, line and plane, through perpendicular and parallel lines, triangles, circles, and various polygons. Some basic proofs are presented.

GEOMETRY (13321)

COLLEGE PREPARATORY

Credit: 1 Grades 10, 11

NCAA Approved 1 Credit

Prerequisite: Algebra II or Algebra I with Teacher Recommendation

This course is designed to emphasize the study of the properties and applications of common geometric figures in two and three dimensions. Topics proceed from the undefined terms point, line, and plane, through deductive and inductive methods of reasoning, perpendicular and parallel lines, triangles, circles and various polygons. Emphasis is placed on showing congruence or similarity by formal proofs. Relationships involving similar triangles and similar polygons are also discussed.

HONORS GEOMETRY (13332)

HONORS

Credit: 1 Grades 10

NCAA Approved 1 Credit

Prerequisite: Successful completion of Honors Algebra II or Dept. Chair Recommendation

This course is designed for the advanced math student. Topics to include points, lines, lines planes angles parallel and perpendicular lines, and inductive and deductive reasoning. Further topics emphasized are congruent triangles, similar triangles, and triangles, and quadrilaterals. Honors Geometry students will study in depth right triangle relationships, proofs, circles and the area and volume of assorted figures.

PRE-CALCULUS (13411)

COLLEGE PREPARATORY

Credit: 1 Grades 11, 12

NCAA Approved 1 Credit

Prerequisite : Successful completion of Algebra II and Geometry (Can be taken concurrently with teacher approval)

This course is a must for any college bound student. Pre-Calculus combines the topics of trigonometry, analytic geometry, and elementary functions to lay a broad base upon which to build calculus. Emphasis is placed on trigonometric functions and their properties, linear relations and functions, matrices, conics, and polynomial, rational, exponential and logarithmic functions. Students entering Pre-Calculus are encouraged to have a TI-84 Plus graphing calculator.

HONORS PRE-CALCULUS (13412)

HONORS

Credit: 1 Grades 11

NCAA Approved 1 Credit

Prerequisite: Successful completion of Honors Algebra I, Honors Algebra II, Honors Geometry or current Math Teacher recommendation

This course is a must for any college bound student. Honors Pre-Calculus will rigorously cover the topics of trigonometry, analytic geometry, and elementary functions. Emphasis is placed on trigonometric functions and their properties, linear relations and functions, matrices, conics, and polynomial, rational, exponential and logarithmic functions. This course will include the extensive use of a graphing calculator. Students entering Pre-Calculus are encouraged to have a TI-84 Plus graphing calculator.

CALCULUS (13421)

COLLEGE PREPARATORY

Credit: 1 Grades 12

NCAA Approved 1 Credit

Prerequisite: Pre-Calculus or Honors Pre-Calculus

This course provides a great foundation for the student who will take calculus upon entering college. Emphasis is placed on the concept of a limit, the meaning and application of the derivative, related rate problems, graphing techniques and some basic techniques of integration. Also introduced are the Fundamental Theorem of Calculus, Rolle's Theorem and the Mean Value Theorem. This course will include the extensive use of a graphing calculator.

AP CALCULUS AB (13423)

ADVANCED PLACEMENT

Credit: 1

Grades 12

NCAA Approved 1 Credit

Prerequisite: Pre-Calculus

This course has received official authorization by the College Board as an AP Course.

This course is designed for the highly motivated student who is interested in an intensified study of calculus. This course is equivalent to a first semester college level calculus course. The student may receive college credit upon attaining a successful score on the College Board AB Calculus Exam. This is the calculus of functions of one variable. Topics include functions, limits and continuity, derivatives and their applications, and integrals and their applications. TI-84 Plus Calculator recommended/Graphic Calculator required.

STATISTICS (13431)

COLLEGE PREPATORY

Credit: 1

Grades 11 (with permission from department chair), 12

NCAA Approved 1 Credit

This course is designed as an introductory Statistics class. Students will analyze and categorize types of data, identify and describe sources of bias and its effect, and draw conclusions from data. Students will also evaluate data-based reports and graphs by considering experimental design, appropriateness of the data analysis, and the soundness of the conclusions. Other topics explored will be the Basic Counting Principle, Combinations, and Permutations.

PERSONAL FINANCE (13441)

Credit: 1

Grade 12

NOT NCAA APPROVED

This course will inform students how individual choices directly influence occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing. Students will design personal and household budgets utilizing checking and savings accounts, gain knowledge in finance, debt and credit management, and evaluate and understand insurance and taxes. This course will provide a foundational understanding for making informed personal financial decisions leading to financial independence.

BIOLOGY (14111)

COLLEGE PREPARATORY

Credit: 1

Grade 9

NCAA Approved 1 Credit

This course deals with the study of life. Various topics encountered in this study of life include: contributions of various scientists to biological study, characteristics of living things, chemical basis of life, cellular structure and function, genetics, molecular biology, evolution, and ecology. Weekly laboratory sessions are an important part of the class and serve to reinforce the course content. The laboratory activities will be performed both individually and in groups. Also, students will be required to submit written lab reports based on their laboratory experiences. Successful completion of the Keystone Biology Assessment is expected at the culmination of the course.

HONORS BIOLOGY (14112)

HONORS

Credit: 1

Grade 9

NCAA Approved 1 Credit**Prerequisite: Successful completion of Honors Introduction to Biology and/or Teacher Recommendation.**

The Honors Biology program is designed for those college bound students with a special aptitude, motivation, and interest in the life sciences. Following the same format as College Preparatory Biology, the course deals with those same topics using an accelerated pace, greater depth and analysis of topics, and numerous laboratories. Successful completion of the Keystone Biology Assessment is expected at the culmination of the course.

EARTH & SPACE SCIENCE (14211)

COLLEGE PREPARATORY

Credit: 1

Grade 9-12

NCAA Approved 1 Credit**Prerequisite: May be taken concurrently with Biology, Chemistry or Honors Chemistry**

Earth and Space Science is designed to actively involve students in an examination of the natural forces at work on Earth and throughout the universe. This is accomplished through both classroom instruction and laboratory exploration of a broad survey of geology, oceanography, meteorology, and astronomy. An environmental component will also be discussed concerning watersheds, wetlands, and human environmental impacts.

HONORS EARTH & SPACE SCIENCE (14212)

HONORS

Credit: 1

Grade 9-12

NCAA Approved 1 Credit**Prerequisite: Successful completion of Honors Introduction to Biology or Honors Biology. May be taken concurrently with Biology, Chemistry or Honors Chemistry and Departmental recommendation required**

This course is designed to provide educational opportunities beyond the regular curriculum for the academically talented and highly motivated student interested in any of the sciences. It is designed to provide a solid foundation upon which students' can build an advanced high-school science curriculum. Classroom instruction is complemented by in class and virtual laboratory investigations on both traditional and current science issues through a broad survey of geology, oceanography, meteorology, and astronomy. An environmental component is also investigated during the course of the year.

APPLIED CHEMISTRY (14224)

COLLEGE PREPARATORY

Credit: 1

Grades 10, 11, 12

Prerequisite: Teacher Recommendation

This class is designed to provide the student with the basic concepts of chemistry with fundamental mathematics applied throughout the course. This course will cover all the topics covered in Chemistry but at a much more deliberate pace.

CHEMISTRY (14231)

COLLEGE PREPARATORY

Credit: 1 Grades 10, 11, 12

NCAA Approved 1 Credit**Prerequisite: Biology/Honors Biology required. May be taken concurrently with Earth/Space. Algebra II required and or concurrent.**

This course is designed to give a general background in the model concept part of chemistry and chemical experimentation, with emphasis upon problem solving. Topics such as the classes of matter, the mole concept, problem solving skills, atomic structure, periodicity, chemical bonding, chemical formulas, chemical equations, stoichiometry, and gas laws will be covered. Laboratory work will be an integral part of this course. Students should expect to spend more than the usual amount of time studying text and class material.

HONORS CHEMISTRY (14232)

HONORS

Credit: 1 Grades 10, 11, 12

NCAA Approved 1 Credit**Prerequisites: Successful completion of Honors Biology. Algebra II required or concurrent. May be taken concurrently with Earth/Space and or Physics/Honors Physics with Departmental recommendation.**

This course is designed for the highly motivated and self-disciplined college bound student who is interested in the science and/or medical field. This course will cover all the topics covered in Chemistry but at a much accelerated pace. Additional topics to be discussed will be liquids and solids, solutions chemistry. Laboratory work will be an integral part of this course. Students should expect to spend more than the usual amount of time studying text and class materials. This course is highly recommended for anyone interested in a career in the science and/or health fields.

PHYSICS (14311)

COLLEGE PREPARATORY

Credit: 1 Grades 11, 12

NCAA Approved 1 Credit**Prerequisites: Algebra II and Geometry with a minimum of 84 grade average in both subjects. May be taken concurrently with Chemistry/Honors Chemistry or any other upper level science courses.**

This course is designed to give the student a solid background in classical physics. Emphasis is placed on solving equations, thus a solid background in mathematics is required. Topics include: kinematics, Newton's laws, vector addition, forces in one and two dimensions, gravitation, rotational motion, momentum and its conservation, work, energy, and its respective conservation.

HONORS PHYSICS (14312)

HONORS

Credit 1 Grades 11, 12

NCAA Approved 1 Credit**Prerequisites: Successful completion of Honors Biology or Honors Earth and Space Science. Algebra II and Geometry with a minimum of a 84 average in both subjects. May be taken concurrently with Honors Chemistry or any of the other upper level science courses.**

This course is designed for the self motivated college bound or technology oriented student with a strong background in mathematics. It will provide a solid background for those students intending to pursue studies in science, engineering, mathematics, or related fields at the college level. The pace of the course will be accelerated and the material covered will be more in depth versus the traditional physics course. Topics include: kinematics, Newton's laws, forces in one and two dimensions, gravitation, rotational motion, momentum and its conservation, thermal energy, vibration, waves, and an introduction to electricity. Additional laboratory time will be required for this course.

HONORS PHYSICS II (14442)

HONORS

Credit 1 Grade 12

NOT NCAA Approval**Prerequisite: Successful completion of Honors Physics and Honors Pre Calculus with a minimum of a 84 average in both subjects.**

May be taken concurrently with any of the other upper level science courses. This course is designed for the self motivated college bound or technology oriented student with a strong background in mathematics. It will provide an expanded background for those students intending to pursue studies in science, engineering, mathematics, or related fields at the college level. The course is a continuation of first level physics, with the goal of introducing more advanced topics and further expanding the students understanding of physical science. Topics include: DC Circuits, Ohm's Law, Electromagnetism, Thermodynamics, Light and Optics, Fluid Mechanics and Nuclear Physics. Additional laboratory time will be required for this course.

AP CHEMISTRY (14333)

ADVANCED PLACEMENT

Credit: 1

Grades 11, 12

NCAA Approved 1 Credit**Prerequisites: Chemistry, Physics, Honors Physics, Pre-Calculus, and teacher recommendation. Pre-Calculus and Physics/Honors Physics may be taken concurrently. Teacher recommendation required.***This course has received official authorization by the College Board as an AP course.*

The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first year of college. This will allow the industrious and highly motivated students an opportunity to complete a college level program to attain college placement. This course is designed and taught with the assumption that all students will take the AP examination at the end of the year. Previous AP exams and curricula will be used and followed throughout the year along with a college chemistry textbook. Since this is an AP course, students are expected to spend more than the usual amount of time studying class and text materials. A summer assignment is required.

AP BIOLOGY (14413)

ADVANCED PLACEMENT

Credit: 1

Grades 12 (Recommended)

NCAA Approved 1 Credit**Prerequisites: Successful completion of Honors Biology and Chemistry. Physics or Anatomy and Physiology may be taken concurrently. Teacher recommendation required and a grade of 90% or above in ALL previous science courses.***This course has received official authorization by the College Board as an AP Course.*

AP Biology offers the industrious and motivated student an opportunity to complete a college level program to achieve college placement. Hence, the AP Biology course is designed to be the equivalent of the general biology course usually taken during the first year of college. Following the course outline published by the College Board, students will study biochemistry, cytology, genetics, botany, zoology, and ecology. Laboratory work serves to foster scientific process skills while quantifying biological phenomena. To this end, there are twelve laboratories set forth by the College Board that the students will perform. This course is designed and taught with the assumption that all students will take the AP examination at the end of the year. A summer assignment is required and the students are expected to spend more than the usual amount of time studying class and text materials.

ANATOMY & PHYSIOLOGY (14421)

COLLEGE PREPARATORY

Credit: 1

Grades 11, 12

NCAA Approved 1 Credit**Prerequisites: Successful completion of Biology and Chemistry. Teacher Recommendation required.**

This class is designed for motivated students who are interested in a career in the medical field but have not had previous experience in honors level courses. It will provide students with an overview of the anatomy and physiology of a normal human body and its major parts. Students entering this course should have a basic understanding of biology and chemistry, including biochemistry, cell structures, and cell functions. Course topics include biochemistry, cell anatomy and physiology, anatomical terminology, tissues, and the anatomy and physiology of major body systems. Laboratory reports and microscopy are important parts of this course.

HONORS ANATOMY & PHYSIOLOGY (14422)

HONORS

Credit: 1

Grades 11, 12

NCAA Approved 1 Credit**Prerequisites: Successful completion of Honors Biology and Honors Chemistry, AP Biology and AP Chemistry, or AP Chemistry and grade of 84% or above in ALL previous science courses. Teacher Recommendation required.**

This course is designed for highly motivated, college-bound students with a high interest and aptitude for science who are planning on entering the medical field and studying human anatomy and physiology in college. It will provide students with an in-depth study of the interdependence of the structures and functions of a normal human body. Students entering this course must have a strong foundation of biochemistry and cell parts and their functions. Anatomical terminology, tissues, and the anatomy and physiology of major body systems will be covered in great detail. Formal laboratory reports, microscopy, laboratory practical exams, and dissections of various organs and organisms are important parts of this course.

ENVIRONMENTAL SCIENCE (14431)

Credit: 1 Grades 11,12

NCAA Approved 1 Credit

This course is designed to teach the fundamentals of natural resource management, adaptability of species to an environment, and the importance of environmental preservation. Environmental laws, regulations and current issues will be explored. The economic impact of environmental resources will also be examined, with an emphasis placed on issues directly affecting the northeast region of Pennsylvania.

HONORS ENVIRONMENTAL SCIENCE (14432)

HONORS

Credit: 1 Grades 11,12

NCAA Approved 1 Credit

This course is designed for the highly motivated student interested in pursuing environmental science as an area of focus in college and as a career option. Students will be provided with a comprehensive study of natural resource management, adaptability of species to environment, and the importance of environmental conservation. Students will study the biological and chemical principles that relate to environmental laws, regulations, and current issues in a fast-paced, interactive format. Scientific analysis and solutions will be used to address the economic and ecological impact of environmental resource acquisition and consumption, with emphasis placed on issues directly affecting the northeast region of Pennsylvania. Students considering this course must be proficient in science, math and writing. Since this is an honors level course, students are expected to spend more than the usual amount of time studying text and class materials. Students must have successfully passed Biology and Chemistry and have a recommendation from a previous teacher.

AP ENVIRONMENTAL SCIENCE

ADVANCED PLACEMENT

Credit: 1 Grades 11,12

NCAA Approved 1 Credit

Prerequisite: Chemistry, Biology and teacher recommendation.

The AP Environmental Science course is designed to be a full-year introductory college course in Environmental Science. This Environmental Science course is offered from a wide variety of disciplines in science including geology, biology, other environmental studies, chemistry, and geography. This course is designed and taught with the assumption that all students will take the AP examination at the end of the year. Previous AP exams and AP curriculum will be used in addition to a college level textbook. Students are expected to spend more than the usual amount of time studying class and text materials in anticipation of successfully completing the AP exam. The general topics of this course include Earth Systems and Resources, The Living World, Population, Land and Water Use, Energy Resource and Consumption, Pollution, and Global Change.

ZOOLOGY (14321)

COLLEGE PREPARATORY

Credit: 1 Grades 11-12

NCAA Approved 1 Credit

Prerequisites – successful completion of biology and chemistry

This course will expand on fundamentals of biology and provide students with an introduction to the classification, relationships, structure, and function of the nine major animal phyla. Emphasis will be placed on characteristics and classification of animals, development and function of body systems, ecology and species interactions, and animal behavior. Class time will be put aside to examine a variety of live and preserved specimens representative of each group.

GRADUATION REQUIREMENT ELECTIVES

IS FRESHMAN CAREERS (15111)

REQUIRED

Credit: .13 Grade 9

NOT NCAA APPROVED

Prerequisite: None

In this course students will utilize the Choices 360 Career Exploration Program to discover their interest areas in order to make informed decisions regarding their future. In order to create their high school transition plan, the students will complete a work values sorter, transferrable skill checklist, and career key to establish their plan of study.

IS SOPHOMORE CAREERS (15231)

REQUIRED

Credit: .13 Grade 10

NOT NCAA APPROVED

Prerequisite: None

In this course students will utilize the Choices 360 Career Exploration Program to discover their interest areas in order to make informed decisions regarding their future. Our students will obtain career acquisition skills through the implementation of job interview practice videos, resume building, as well as, creating thank you and cover letters.

IS JUNIOR CAREERS (15311)

REQUIRED

Credit: .13 Grade 11

NOT NCAA APPROVED

Prerequisite: None

In this course students will utilize the Choices 360 Career Exploration Program to discover their interest areas in order to make informed decisions regarding their future. This program will allow our students to discover career retention and advancement skills by building a career plan via their ability profile while establishing a post-secondary plan.

CHILD DEVELOPMENT (15211)

REQUIRED

Credit: .25 Grades 10

NOT NCAA APPROVED

This course will provide an overview of the importance of child health, child care and early literacy development. Issues such as current child safety issues, environmental situations that can affect child development before and after birth and brain development will be explored.

CHARACTER DEVELOPMENT (15411)

REQUIRED

Credit: .25 Grade 12

NOT NCAA APPROVED

This course will assist students' development of higher order of thinking skills. Globalization of the world in the 21st century will affect all citizens in all nations. This course examines the relationship between the student's ability to think critically and to make responsible decisions. Selected readings will be used as discussion forums. Skills learned in the course can be applied to other courses in high school, as well as important life decisions students will face after high school.

GRADUATION REQUIREMENT ELECTIVES (CONTINUED)

PHYSICAL EDUCATION (15121/15321)

REQUIRED

Credit: .5 Grades 9,11

NOT NCAA APPROVED

Prerequisite: None

Students will participate in physical activities including team sports, individual sports, cooperation activities, and physical fitness activities. Participating students will increase their fitness and learn activities designed for lifetime fitness.

WELLNESS/PHYSICAL EDUCATION 10 (15221)

REQUIRED

Credit: .25 Grade 10

NOT NCAA APPROVED

Wellness 10 is a quarter course that addresses many aspects of a teen's well-being, including those that have a potential impact on his/her mental, physical, emotional, or social well-being. The units are designed to encourage students to make responsible, respectful, informed, and capable decisions about topics that affect the well-being of themselves and others. It is comprised of two portions of the class, one portion is physical education and takes place either in the gymnasium or outdoors. The other portion of the course addresses health issues and takes place in a classroom setting.

WELLNESS/PHYSICAL EDUCATION 12 (15431)

REQUIRED

Credit: .25 Grade 12

NOT NCAA APPROVED

Wellness 12 is a quarter course where students will continue to develop their grasp of health education skills as they explore contemporary health topics and trends. The focus will be on the issues and challenges today's young adults face. Students will explore the combinations of both strength and cardiovascular fitness. Students will be expected to create their own plan and work on it after teacher approval. Wellness 12 students will also complete a unit on first aid and CPR. It is comprised of two portions of the class, one portion is physical education and takes place either in a gymnasium or outdoors. The other portion of the course addresses health issues and takes place in a classroom setting.

Financial Literacy (15441)

REQUIRED (Exempt if you have taken Personal Finance)

Credit: .50 Grade 12

NOT NCAA APPROVED

This quarter-long financial literacy course covers all of the essential personal finance topics necessary to become a financially capable student. Topics include banking, credit, budgeting, taxes, insurance and consumer skills.

WORLD LANGUAGE ELECTIVES (CONTINUED)

FRENCH I (LLC36711) *OFFERED IN CYBER FORMAT ONLY**

ELECTIVE

Credit: 1 Grades 9, 10, 11, 12

NCAA Approved 1 Credit

Prerequisite: None

French I focuses on developing listening skills by repeated exposure to the spoken language. Speaking skills are encouraged through recommended assignments using voice tools. Reading and writing skills, as well as language structures, are practiced through meaningful, real-life contexts. The use of technology enhances and reinforces authentic language development and fosters cultural understandings through exposure to native speakers and their daily routines.

FRENCH II (LLC36721) *OFFERED IN CYBER FORMAT ONLY**

ELECTIVE

Credit: 1 Grades 10, 11, 12

NCAA Approved 1 Credit

Prerequisite: Successful completion of French I

Semester A focuses on the continuation and enhancement of language skills presented in Level 1. Vocabulary and grammar structures are revisited and expanded to provide students an opportunity to move towards an intermediate comprehension level. Speaking and listening skills are enhanced through recommended real-life voice activities. Listening skills are honed through online dialogues. Reading and writing skills are developed through access to completion of meaningful activities, reading of culturally related articles of interest and responding to reading in the target language. The use of technology enhances and reinforces authentic language development and fosters cultural understandings through exposure to native speakers and their daily routines. Semester B continues the enhancement of language skills. Vocabulary and grammar structures are revisited and expanded as students explore other French-speaking areas. Speaking and listening skills are enhanced through recommended real-life voice activities. Listening skills are honed through online dialogues. Reading and writing skills are developed through access to completion of meaningful activities related to travel, to the Olympics, to natural disasters, and to the space program. Reading of culturally related articles of interest and responding to reading in the target language, along with the use of technology, reinforces authentic language development and fosters cultural understandings through exposure to native speakers and their daily routines.

FRENCH III (LLC36731) *OFFERED IN CYBER FORMAT ONLY**

ELECTIVE

Credit: 1 Grades 11, 12

NCAA Approved 1 Credit

Prerequisite: Successful completion of French II

Students further deepen their understanding of French by focusing on the three modes of communication: interpretive, interpersonal, and presentational. Each unit consists of a variety of activities which teach the students how to understand more difficult written and spoken passages, to communicate with others through informal speaking and writing interactions, and to express their thoughts and opinions in more formal spoken and written contexts. Students should expect to be actively engaged in their own language learning, use correct vocabulary terms and phrases naturally, incorporate a wide range of grammar concepts consistently and correctly while speaking and writing, participate in conversations covering a wide range of topics and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various French-speaking countries, read and analyze important pieces of Hispanic literature, and take frequent assessments where their language progression can be monitored. The course is conducted almost entirely in French. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

SPANISH I (16751)

ELECTIVE

Credit: 1 Grades 9, 10, 11, 12

NCAA Approved 1 Credit

Prerequisite: None

Spanish I emphasizes communication in both the written and spoken form as well as development of listening and reading skills. A wide range of vocabulary units are covered, including family and friends, daily life, the community and school. Communication is conducted primarily in the present tense. Emphasis is placed on proper pronunciation techniques of the target language. Cultural awareness is an important aspect of the course as students are not only exposed to the language, but to a study of the people and their customs as well.

WORLD LANGUAGE ELECTIVES (CONTINUED)

SPANISH II (16761)

ELECTIVE

Credit: 1 Grades 10, 11, 12

NCAA Approved 1 Credit

Prerequisite: Successful completion of Spanish I

Spanish II further develops the vocabulary of Spanish I as it is an extension of the previous course. Vocabulary is enhanced through conversations pertaining to topics such as technology, school, past times, and descriptions of self and others. Reading selections are mainly comprised of short stories and fairy tales in the target language. Grammatically, students are presented with the present and past tenses, as well as commands. Cultural exploration continues through a study of Hispanic media, music and current events.

SPANISH III (16771)

ELECTIVE

Credit: 1 Grades 11, 12

NCAA Approved 1 Credit

Prerequisite: Successful completion of Spanish II

All grammar to date will be utilized and the subjunctive mood will be introduced. Continued emphasis will be on reading, writing and speaking. Spontaneous and directed dialogues will be employed. Short stories and classic literature, including selections from *Don Quixote*, will be presented. Writing will become increasingly self-directed and will touch upon a variety of themes, from classic literature to contemporary.

AP SPANISH/SPANISH IV (16783)

ADVANCED PLACEMENT

Credit: 1 Grade 12

NCAA Approved 1 Credit

Prerequisite: Successful completion of Spanish III

This course has received official authorization by the College Board as an AP course. Instruction will emphasize preparation for the Advanced Placement Exam and college testing. Mastery of vocabulary, grammatical structures, utilization of various verbal structures, and knowledge of all tenses is required. Speaking exercises will consist of creative description utilizing all tenses. Excerpts from numerous sources will reinforce reading skills. Creative writing in a variety of settings will also be required.

ROSETTA STONE (16791)

ELECTIVE

Credit: .5 and 1 Grades 10, 11, 12

NCAA Approved 1 Credit (Chinese Only)

Prerequisite: Acceptance through application to the guidance department

This course is an independent study using the Rosetta Stone program as the primary means of instruction. Rosetta Stone utilizes audio and visual cues to engage students in the immersion of the chosen language. This course is delivered online, where students must use trial and error as well as intuition to learn the foreign language without support in English. The course is graded as Pass/Fail. The grade is based on the progress made by the student in the Rosetta Stone program, which is monitored by a world language teacher at the high school. Students may choose to study the following languages: Arabic, Chinese (mandarin), Dutch, Filipino, German, Greek, Hebrew, Hindi, Irish, Italian, Japanese, Korean, Latin, Persian, Polish, Portuguese, Russian, Swedish, Turkish, and Vietnamese.

FINE ARTS ELECTIVES

SYMPHONIC BAND (16911)

ELECTIVE

Credit: 1 Grades 9, 10, 11, 12

NOT NCAA APPROVED

Prerequisite: None

Students will have the opportunity to participate and perform in a large instrumental ensemble. Traditional and contemporary pieces from the band repertoire will be explored. In addition, students will receive one small group or private lesson per week. Winter and spring concerts will showcase the musical works taught during the year. Students are expected to attend all performances.

MUSIC THEORY AND COMPOSITION(16931)

ELECTIVE

Credit: .5 Grades 9, 10, 11, 12

NOT NCAA APPROVED

Prerequisite: None

Music Theory and Composition will explore various topics that define music's inner workings. These include notation, scales, key signatures, intervals, rhythm, chords, harmonic progression and form and analysis. Elements of composition will also be discussed as new theory topics are introduced. Students will compose using the noteflight website.

PRIVATE LESSONS (16921)

ELECTIVE

Credit: Dependent upon # of days assigned Grades 9, 10, 11, 12

NOT NCAA APPROVED

Prerequisite: None

Students who are not involved in concert band and wish to study an instrument may sign up for private lessons. The private lessons are contingent upon curriculum availability. Arrangements will be made by the music instructor.

CHORUS (16941)

ELECTIVE

Credit: 1 Grades 9, 10, 11, 12

NOT NCAA APPROVED

Prerequisite: willingness to sing and desire to perform

Chorus members study and perform a wide variety of music. Students will perform three concerts per school year. Students will also develop ear training and music reading abilities. Opportunities are available to members to audition for District, Regional and All-State Chorus.

BAND/CHORUS (16901/16981)

ELECTIVE

Credit: 1 Grades 9, 10, 11, 12

NOT NCAA APPROVED

Prerequisite: none

The Band/Chorus section allows students to participate and perform in both Band and Chorus. Both groups explore and rehearse quality repertoire and perform a minimum of two concerts. Students are expected to attend all performances.

GUITAR I (16951)

ELECTIVE

Credit: 1 Grades 9, 10, 11, 12

NOT NCAA APPROVED

Students will learn basic skills including notation, rhythm, and technique. Basic chords and progressions will be reviewed. Students will perform alone and in groups

GUITAR II (16961)

ELECTIVE

Credit: 1 Grades 10, 11, 12

NOT NCAA APPROVED

Prerequisite: Guitar 1 and/or student audition.

This course is designed for the serious guitar student. We will focus on chordal progressions, ear training, soloing in different genres, and theoretical concepts.

GUITAR III (16991)

ELECTIVE

Credit: 1 Grades 11, 12

NOT NCAA APPROVED

Prerequisite: Successful completion of Guitar I and Guitar II and teacher approval

This class is for the serious guitar student who can work independently. In Guitar III, students will develop their own objectives and meet bi-weekly with teacher to discuss progress and what new goals should be started.

FINE ARTS ELECTIVES (CONTINUED)

MUSIC TECHNOLOGY (16971)

ELECTIVE

Credit: .5 Grades 9, 10, 11, 12

NOT NCAA APPROVED**Prerequisite: None**

Music technology is a growing field in today's music scene. In this course students will learn about different modern recording techniques including looping, sampling and remixing as well as developing skills in studio recording. While being able to play an instrument or sing is encouraged, it is not required and should not discourage students with an interest in recording to not take this course.

Rock & Roll (16972)

ELECTIVE

Credit: .5 Grades 9, 10, 11, 12

NOT NCAA APPROVED**Prerequisite: None**

From Elvis to Gaga explores the history of rock and roll from its origins to the present day. This is an appreciation course for anyone who enjoys music and no music skills are required! Topics include the origins of popular styles of music, the popular music of each decade from the 1950s to the present, and how music of each decade influenced culture. Several different styles of popular music will be looked at, including pop, rock and roll, country, alternative, R&B, hip hop, and many others.

ART I (16811)

ELECTIVE

Credit: 1 Grades 9, 10, 11, 12

NOT NCAA APPROVED**Prerequisite: None**

Students develop observational drawing and painting skills through a series of small projects that introduce a variety of media and subject matter. Upon completion of this series, students engage in independent studio projects that allow for choice in media and subject matter that pose challenges leading to artistic growth. The goal is for students to develop confidence in their ability to represent images accurately, and to create strong foundational skills needed for upper-level art courses.

ART II (16821)

ELECTIVE

Credit: 1 Grades 10, 11, 12

NOT NCAA APPROVED**Prerequisite: Successful completion of Art I**

This course is designed for the student who wishes to continue developing his or her art skills in the areas of Drawing and Painting. Students will create a series of artworks incorporating their personal interests in both media and subject matter with the goal of confronting a variety of artistic challenges.

ART III/Drawing-Painting (16831)

ELECTIVE

Credit: 1 Grade 11,12

NOT NCAA APPROVED**Prerequisite: Successful completion of Art II**

Students in Art 3 will continue to explore both 2-D and 3-D dimensions in art. Challenges will increase as students mature aesthetically. Problems in surface decoration, construction, and illustration will be confronted.

AP ART/PORTFOLIO DEVELOPMENT (16844)

ADVANCED PLACEMENT/ELECTIVE

Credit: 1 Grade 11/12

NOT NCAA APPROVED

This course has received official authorization by the College Board as an AP Course.

This course is for the student entertaining the possibility of entering the art world post high-school. Students will work on developing a portfolio suitable to the needs of college applicants and demonstrating technically advanced works of art in a variety of media that speaks to Quality, Concentration, and Breadth as outline within the AP Guidelines.

FINE ARTS ELECTIVES (CONTINUED)

Drawing (16861)

ELECTIVE

Credit: .5

Grades 9,10,11,12

NOT NCAA APPROVED

Prerequisite: None

This is a studio class during which students will develop skills in various dry media including graphite, charcoal, colored pencil and pastels as they explore a variety of subjects through realistic drawing from observation. Various techniques are presented to encourage personal creativity and a successful artistic experience. Differentiated instruction prepares students for additional art opportunities and makes this a suitable course for beginner or advanced artists.

MOUNTAIN MAN CRAFTS AND SKILLS (16891)

ELECTIVE

Credit: .5

Grades 9,10,11,12

NOT NCAA APPROVED

This course is for outdoor enthusiasts. Students will explore projects that are both practical and artistic. This class is designed for the outdoor enthusiast that has an interest in making projects which have a direct link to the functional crafts and tools of the wilderness. **Important:** Projects require small supply fees. Potential projects include: fishing lures, creels, leather tool bag, snow shoes, game calls etc.

DIGITAL PHOTOGRAPHY (16871)

ELECTIVE

Credit: .5

Grades 9,10,11,12

NOT NCAA APPROVED

Prerequisite: None

This course will help the students become well rounded in the fundamentals of digital photography. Students will learn how camera settings, lighting, and composition work toward successful results as well as how to utilize open source editing software. They will learn about the history of photography as an artistic medium, speculate on the deeper meaning hidden within photographic compositions and produce a body of work exploring visual communication of abstract concepts.

PAINTING (16812)

ELECTIVE

Credit: .5

Grades 9,10,11,12

NOT NCAA APPROVED

Prerequisite: None

This course will provide students with an opportunity to explore a variety of paint media including watercolor, acrylics, and oil paints. In addition to the collaborative creation of murals for our building, students will engage in assignments that are personalized and geared toward helping them to further develop and improve their existing art skills.

Painting II (16881)

ELECTIVE

Credit: .5

Grades 9,10,11,12

NOT NCAA APPROVED

Prerequisite: Painting

This is a class for students who have already completed the introductory painting course and wish to continue developing skills in painting using a variety of art media including ink & watercolor, gouache, acrylic, oil paints, and mixed media.

FAMILY CONSUMER SCIENCE ELECTIVES

BON APPETIT (16114)

ELECTIVE

Credit: .5

Grades 10,11,12

NOT NCAA APPROVED**Prerequisite: None**

This course is designed to teach students basic cooking and safety in the kitchen. Students will learn the scientific side of food, proper etiquette, and food technology. They will be preparing and sampling a variety of foods. The students will also demonstrate the ability to work cooperatively with others which is vital to the successful completion of this course. Students will participate in a performance component/competition to demonstrate their knowledge acquired as part of the assessment during this course.

BON APPETIT II (16115)

ELECTIVE

Credit: 1

Grades 11,12

NOT NCAA APPROVED**Prerequisite: Bon Appetit**

This course is designed to teach students advanced cooking techniques. Students will learn how to make Pates and Parfaits, as well as advanced meat preparation and sauces. How to make jus, homemade pasta and breads will also be presented. They will be preparing and sampling a variety of International Foods. The students will also demonstrate the ability to work cooperatively with others which is vital to the successful completion of this course. Students will participate in a performance component/competition to demonstrate their knowledge acquired as part of the assessment during this course. Prerequisite is Bon Appetit I.

FITNESS ELECTIVES

PHYSICAL FITNESS (15421)

ELECTIVE

Credit: 1

Grade 11, 12

NOT NCAA APPROVED**Prerequisite: None**

Students will participate in physical activities including team sports, individual sports, cooperation activities, and physical fitness activities. Participating students will increase their fitness and learn activities designed for lifetime fitness. The class, which meets six times per cycle, is an alternative to Physical Education. If a student has failed Physical Education, Physical Fitness may not be taken in its place without the permission of the instructor.

MATH ELECTIVES

INTRODUCTION TO PROGRAMMING AND COMPUTER SCIENCE IN PYTHON (16020)

ELECTIVE

Credit: 1

Grades 9-12

PENDING NCAA APPROVAL**Prerequisites: Algebra Readiness**

Computer Science and computational problem solving are fundamental skills for engaging the 21st-century marketplace of ideas and economies. All students should have the opportunity to learn these skills as they will use them in whatever career they are likely to enter. The main goal of this course is for students to learn the fundamentals of programming, to enjoy coding, and to be able to use programming creatively to help solve problems in a variety of domains. No prior programming experience is required. Introduction to Programming is a Python course with an emphasis on critical thinking, problem solving, and creativity. Specific topics include functions, variables, expressions, conditionals, loops, strings, lists, graphics, and animations, as well as top-down design, testing, and debugging.

*CS I is offered in partnership with Carnegie Mellon University's Computer Science

AP: COMPUTER SCIENCE PRINCIPLES (16021)

ELECTIVE

Credit: 1

Grades 10-12

NCAA APPROVED 1 CREDIT**Prerequisite: Successful completion of Algebra I (85% or better)**

AP Computer Science Principles introduces students to the foundations of modern computing. The course covers a broad range of topics such as programming, abstractions, algorithms, large data sets, the Internet, digital privacy and security, and the societal impacts of computing. AP Computer Science Principles gives students the opportunity to use current technologies to create computational artifacts for problem solving and seeks to provide foundational knowledge and skills to meaningfully participate in our increasingly digital society, economy and culture. Computing affects almost all aspects of modern life, and all students deserve an education that prepares them to pursue the wide array of intellectual and career opportunities that computing has made possible.

SOCIAL STUDIES ELECTIVES

ECONOMICS (16631)

ELECTIVE

Credit: 1 Grades 10, 11, 12

NCAA Approved 1 Credit

Prerequisite: None

This course introduces the student to the basic elements of micro and macroeconomics. Economic systems, market structures, the role of government, the banking system, fiscal policy, the Federal Reserve and the stock market are examined. Special emphasis is placed on economic reasoning, economic systems and structures, supply and demand, measures of economic activity, the role of government and the FED, and other factors that affect the economy.

PSYCHOLOGY (16611)

ELECTIVE

Credit: 1 Grades 11, 12

NCAA Approved 1 Credit

Prerequisite: None

This elective provides a basic understanding of behavioral science by surveying the major principles of psychology. This course introduces the history of psychology, research methodologies, learning and memory, level of consciousness, biological bases of behavior, personality development, abnormal behavior, and treatment of psychological disorders. The course is designed to prepare students for college level introductory psychology.

SOCIOLOGY (16621)

ELECTIVE

Credit: 1 Grades 11, 12

NCAA Approved 1 Credit

Prerequisite: None

This course provides a challenging and thought-provoking survey of the study of human society and social interaction. The course examines the origins of sociological thought, theoretical perspectives, and the role of culture in society. Special emphasis is placed on the process of socialization, stratification, mobility, social movements and institutions on national and global levels.

THE AMERICAN CIVIL WAR (16651)

ELECTIVE

Credit: .5 Grades 11, 12

NCAA Approved .50 Credit

Prerequisite : Successful completion of Civics/Geography

This semester long course will extensively examine the many facets of the American Civil War and its role in American and military history. Topics that will be explored include: causes of the war; politics of each government/president; strategies and tactics; weaponry, uniforms and equipment; period music; personalities; key battles and their aftermath; period photography; the home front; the assassination of Lincoln; and the Reconstruction period. This is a writing intensive course that will require at least one research paper and various readings throughout the course.

THE HOLOCAUST (16641)

ELECTIVE

Credit: 1 Grades 11, 12

NCAA Approved 1 Credit

In this full-year elective course, students will explore what led to the Holocaust and examine all four phases of the genocide from historical, social, and psychological perspectives. The course begins by exploring the background and events which led to the Holocaust, including the history of prejudice, discrimination, genocide, and anti-Semitism, as well as early influences on the young Adolph Hitler. The events which allowed Hitler to rise to power, along with elements that attracted people at the time to the Nazis will also be presented. The racial theories and plan Hitler used to carry out the genocide will be analyzed. All four phases of the Holocaust will then be explored through primary source photographs, film, audio, and survivor testimonies, as well as how Hitler used the conventional war as a cover for his war of genocide. The triumph of liberation at the end of the war will be examined, along with the events of the Post-Holocaust period and the aftermath of the genocide. Throughout the course, emphasis will be placed on the need to promote tolerance and build open communication between different social groups in order to apply the lessons of the topic and attempt to prevent future occurrences of genocide .

SOCIAL STUDIES ELECTIVES (CONTINUED)

HONORS GLOBAL STUDIES (16672)

HONORS

Credit: 1

Grade 10-12

Pending NCAA Approval

Prerequisite: Successful completion of Honors World History and/or Departmental Recommendation

This course is designed for the intrinsically motivated and intellectually curious student who desires to explore the world outside of North America. Taking a culturally geographic approach, the course focuses on eight areas of the world: The Middle East, South Asia, China, Japan, Southeast Asia, Australia and Polynesia, South and Central America, and Africa. If time, aspects of Europe will also be explored at the end of the course.

Each unit will cover geography, history, culture (including architecture, religion, music, art, food, and pop culture), current issues and relations with other countries. The course strives to create a citizen with an appreciation and sensitivity of foreign cultures, and an awareness of increasing interglobal dependency that nations of the world have in the 21st century.

TECHNOLOGY ELECTIVES

GRAPHIC ARTS DESIGN (16111)

ELECTIVE

Credit: 1 Grades 9, 10, 11, 12

NOT NCAA APPROVED

Prerequisite: None

This course provides students with a vocational knowledge in the field of Graphic Arts. Students develop an appreciation for craftsmanship of the basic printing process. Projects may include letterpress, offset printing, screen printing and Desktop Publishing. Throughout the course students will also be asked to follow the technological design process and develop products through the Adobe CS3 software.

GRAPHIC ARTS II (16211)

ELECTIVE

Credit: 1 Grades 10, 11, 12

NOT NCAA APPROVED

Prerequisite: Graphic Arts Design

Basic information on modern printing methods and materials are stressed in this course. Strong emphasis is placed on good craftsmanship and developing a vocational knowledge of the graphic arts industry. Students will experience a business type atmosphere as they will be graphically designing and producing work for a client (other teachers within the district). Projects may include business cards, multi-color t-shirts, programs, posters, digital printing and sign making. Throughout the course students will also be asked to follow the technological design process and develop products through the Adobe CS3 software.

ARCHITECTURAL DRAFTING AND LANDSCAPE DESIGN (16331)

ELECTIVE

Credit: 1 Grade 11, 12

NOT NCAA APPROVED

Prerequisite: Algebra I recommended

This year long course will extensively examine the many facets of Architectural Drafting and landscape design. Topics that will be explored will include technical sketching, technical drawing, Computer-aided drafting (CAD), map reading and model building. Activities include: investigative house styles, custom home designing, garden and landscape drawing and planting, scale planning and model construction. The course is highly recommended for students considering a future in the building trades, or landscape architects.

WOODWORKING TECHNOLOGY I (16121)

ELECTIVE

Credit: 1 Grades 9, 10, 11, 12

NOT NCAA APPROVED

Prerequisite: None

This course provides a comprehensive study in basic woodworking. Areas of study include: safety, measuring and layout, patternmaking, wood identification, project development and construction techniques, hand and machine uses and care, wood processing, sanding and finishing, hardware choices and installation, technical sketching and design. This course should challenge student woodworking abilities and should encourage them to continue to develop skills in the woodworking field. Students will explore many instructional areas and practice the learned skills while constructing three projects.

WOODWORKING TECHNOLOGY II (16221)

ELECTIVE

Credit: 1 Grades 10, 11, 12

NOT NCAA APPROVED

Prerequisite: Woodworking Technology I

This course is designed to expand upon the information presented in the Woodworking Technology I class. Additionally the course is designed to introduce students to the construction industry. Areas of study include: safety, surveying, and layout techniques, job planning, job training, hand tool and machine tool use and care, portable power tool use and care, project development, blue print reading, construction framing and finishing techniques, job estimating, building codes, continuing education and employment opportunities in the field of cabinet making and building construction. Students will explore many instructional areas and will complete three projects.

TECHNOLOGY ELECTIVES (CONTINUED)

WOODWORKING TECHNOLOGY III (16321)

ELECTIVE

CREDIT:1 Grades 11,12

NOT NCAA APPROVED

Prerequisite: Woodworking Technology II

Woodworking Tech 3 is an advanced woodworking class that revolves around the sole use of hand tools. The projects built in class are based on historical originals and replicated using vintage woodworking processes and tools. Areas of study include sawing processes, lay out and hand cutting dovetails, sliding and other woodworking joints, fit and assembly techniques, surface preparation, finishing and restoration of new and antique wooden projects. Students are exposed to a variety of new and antique hand tools and should learn processes in sharpening and maintenance, project design and development, and pricing. Students will be required to construct three projects during the class.

LANGUAGE ARTS ELECTIVES

JOURNALISM (16511)

ELECTIVE

Credit: .5 Grades 10, 11, 12

NCAA Approved .5 Credit**Prerequisite: None**

Journalism focuses on the Pennsylvania Core Standards for 10th, 11th and 12th grades. This course challenges students by exposing them to the rudiments of gathering, writing, and editing the news. It will introduce the techniques and ethics of journalistic writing. While honing basic writing skills, students will learn to write in the inverted pyramid, create effective headlines, determine news worthiness, select appropriate topics, conduct interviews, separate fact from fiction, attribute information, remain objective, and understand the responsibilities of a free press. Students will draft various news articles, create mini layouts, and write at least 1 article for the school newspaper.

HONORS SHAKESPEARE: THE BEST OF THE BARD (16542)

ELECTIVE

Credit: .5 Grades 11,12

NCAA APPROVED .5 Credit**Prerequisite: Honors ELA 10 or Honors ELA 11 and Departmental Recommendation**

Honors Shakespeare: The Best of the Bard focuses on the Pennsylvania Core Standards for 11th and 12th grades. This course challenges students by presenting a selection of Shakespeare works, including sonnets, a comedy, tragedy, and history play such as such as The Taming of the Shrew, The Merchant of Venice, Othello, Henry IV, Henry V. Film reviews will be an integral part of the course in order to highlight the timeless nature of Shakespeare's works. Major class assignments include a film analysis, a character sketch, essays in both MLA and APA formats, a persuasive speech, projects, and presentations.

Unraveling Childhood Literature (16591)

ELECTIVE

Credit: .5 Grades 11,12

NCAA APPROVED .5 Credit**Prerequisite: None**

Unraveling Childhood Literature focuses on the Pennsylvania Core Standards for 11th and 12th grades. This course presents a unique perspective on familiar tales. Students will analyze the hidden meanings in children's literature, such as the works of Dr. Seuss and Shel Silverstein, Disney classics, Grimm's Fairytales, and Aesop's Fables. Major class assignments include an APA research paper on historical background, a comparison/contrast presentation, an MLA literary analysis essay, a character sketch, and a final project in APA format.

Wilson Reading (11511)

Credit: 1 Grades 9-12

NOT NCAA APPROVED

Remedial reading is designed to strengthen the fundamentals of language and reading. This course implements the Wilson Reading System (WRS). WRS explicitly and systematically teaches students how to fluently and accurately decode and spell. WRS directly addresses irregular or sight word instruction, fluency, vocabulary, oral expressive language development and comprehension. The teaching methods used are interactive and multisensory.

SRA Reading (17161)

Credit: 1 Grades 9-12

NOT NCAA APPROVED

SRA is a supplemental reading program which targets decoding and comprehension skills. Within the decoding strand, students will strengthen phonemic awareness, phonics and word analysis, fluency, and specific comprehension skills. Within the comprehension strand, students will strengthen vocabulary knowledge, background information, reasoning and writing skills.

LL Cyber Course

Descriptions

*****Any Cyber Student needing NCAA approved courses must notify the Guidance Department for an appropriate schedule. This applies to college bound athletes. *****

LLC ELA 9 (LLC31111)

COLLEGE PREPARATORY

Credit: 1

Grade 9

NOT NCAA APPROVED

Prerequisite: None

ELA 9 focuses on the Pennsylvania Core Standards, specifically composition standards, encompassing proper grammar, mechanics, and usage in various types of writing, including informative/ explanatory, persuasive and research-based writing. Vocabulary development, oral communication, and critical thinking skills will be enhanced throughout the course as students are exposed to all genres of literature, including fiction and nonfiction, short stories, poetry, and drama. Course average is predominantly composed of quiz, test, and essay grades.

LLC HONORS ELA 9 (LLC31112)

HONORS

Credit: 1

Grade 9

NOT NCAA APPROVED

Prerequisite: Successful completion of Honors English 8 and/or Departmental Recommendation

Honors ELA 9 encompasses the same learning outcomes as English 9, but students enrolled in Honors ELA 9 are expected to have a higher level of motivation, participation, and overall achievement, as this course is much more in-depth than English 9 and requires a greater level of independence. Students enrolled in Honors ELA 9 will write a minimum of twelve full-length essays throughout the year, as well as a full-length research paper. Greek and Latin Word Study is incorporated on a bi-weekly basis. Course average is predominantly composed of quiz, test, and essay grades.

LLC ELA 10 (LLC31211)

COLLEGE PREPARATORY

Credit: 1

Grade 10

NOT NCAA APPROVED

Prerequisite: Successful completion of ELA 9

ELA10 focuses on the Pennsylvania Core Standards for all 10th graders. This course continues the study of literature, writing, critical thinking, vocabulary, grammar, speaking, research and technology. This integrated whole language approach to literature is taught from a variety of genres, focusing on world literature from the Renaissance to modern times. Successful completion of the Keystone Literature Assessment is expected at the culmination of the course. Additional resources utilized in the course include Study Island and Pearson Online.

LLC HONORS ELA 10 (LLC31212)

HONORS

Credit: 1

Grade 10

NOT NCAA APPROVED

Prerequisite: Successful completion of Honors ELA 9, and/or Departmental Recommendation

ELA 10 focuses on the Pennsylvania Core Standards for all 10th graders. This course continues the study of literature, writing, critical thinking, vocabulary, grammar, speaking, research and technology. This integrated whole language approach to literature is taught from a variety of genres, focusing on world literature from the Renaissance to modern times. Honors students are expected to have a higher level of motivation, participation, and overall achievement, as this course is much more in-depth than English 10. Successful completion of the Keystone Literature Assessment is expected at the culmination of the course. Additional resources utilized in the course include Study Island and Pearson Online.

LLC ELA 11 (LLC31311)

COLLEGE PREPARATORY

Credit: 1

Grade 11

NOT NCAA APPROVED

Prerequisite: ELA 10 or Honors ELA 10

This course focuses on the Pennsylvania Core Standards for all 11th graders. This integrated whole-language approach encompasses grammar, composition, literature, critical thinking skills, vocabulary development, and oral communication. English Language Arts 11 will emphasize the study of classic novels, drama and poetry, preparation for college entrance exams like the SAT and ACT, writing of essays, including MLA and APA formatted research papers, creation of projects, and development of presentation skills.

LLC HONORS ELA 11 (LLC31312)

HONORS

Credit: 1 Grade 11

NOT NCAA APPROVED**Prerequisite: Successful completion of Honors ELA 11 and/or Departmental Recommendation**

Honors ELA 11 is designed for the highly-motivated college-bound students seeking a reading and writing intensive curriculum and focuses on the PA Core Standards for all 11th graders. This integrated whole-language approach encompasses grammar, composition, literature, critical thinking skills, vocabulary development, and oral communication. Honors ELA 11 will emphasize the study of classic novels, drama and poetry, preparation for college entrance exams like the SAT and ACT, writing of essays, including MLA and APA formatted research papers, creation of projects, and development of presentation skills. Students enrolled in Honors ELA 11 are expected to have a higher level of motivation, participation, and overall achievement, as this course is much more in-depth than ELA 11 and requires a greater level of independence.

LLC ELA 12 (LLC31411)

COLLEGE PREPARATORY

Credit: 1 Grade 12

NOT NCAA APPROVED**Prerequisite: ELA 11 or Honors ELA 11**

This course reflects the Pennsylvania Core Standards and features an intensive study of literature from multiple genres. With a focus on reading independently, students will learn to critically analyze text and showcase their understanding through various projects, presentations and writing assignments in both MLA and APA style. The goal of this course is to prepare the students for the college or career setting, with an emphasis placed on reading, writing, research, critical thinking skills, and communication.

LLC HONORS ELA 12 (LLC31412)

HONORS

Credit: 1 Grade 12

NOT NCAA APPROVED**Prerequisite: Successful completion of Honors ELA 11 and/or Departmental Recommendation**

Honors ELA 12 is a course designed for the highly-motivated, college bound student who is willing to work at an intensive pace and produce a substantial amount of work both in and out of the classroom. Reflecting the Pennsylvania Core Standards and featuring a rigorous study of literature from multiple genres, students will become familiar with many famous works of literature. Students will critically analyze the text through independent reading assignments and share their thoughts through various writing activities in both MLA and APA style, aimed at preparing them for the types of writing they will be expected to showcase at the college level. Acceptance into this course is contingent upon faculty recommendation.

LLC WORLD HISTORY (LLC32111)

COLLEGE PREPARATORY

Credit: 1

Grade 9

NOT NCAA APPROVED

Prerequisite: None

This course is designed to offer an economic, political, geographic, and social history of western civilization beginning with antiquities and highlighting key historical points in Ancient Greece, Rome, the Renaissance, the Reformation, Religious Wars, Age of Absolutism, the Enlightenment, French Revolution, and the Napoleonic Wars. Students will explore history through primary source documents, map analysis, and key historical writings .

LLC HONORS WORLD HISTORY (LLC32112)

HONORS

Credit: 1

Grade 9

NOT NCAA APPROVED

Prerequisite: Successful completion of Honors 8th Grade History and/or Departmental Recommendation

This course is a challenging alternative to the traditional World History 9 course with an appeal to the motivated and independent learner. Students will explore all of the topics covered during World History 9 in greater depth and focus. Students will be required to demonstrate their knowledge of economic, political, and social developments throughout history with a direct emphasis on reading, writing, and the research process. Critical thinking skills and self-directed learning will be mastered through activities involving advanced geographical studies and examination of the relationship between historical and current events.

LLC CIVICS & GEOGRAPHY (LLC32211)

COLLEGE PREPARATORY

Credit: 1

Grade 10

NOT NCAA APPROVED

Prerequisite: Successful completion of World History

This course is divided into two one semester courses. The purpose of Geography is to introduce the student to the major geo-political and socio-geographic implications and developments in North and South America. The purpose of Civics is to engender an intelligent and critical understanding of the political and legal system. This course focuses on many aspects of citizenship and government. Specifically, the course will address the foundations of the American political system.

LLC HONORS CIVICS & GEOGRAPHY (LLC32212)

HONORS

Credit: 1

Grade 10

NOT NCAA APPROVED

Prerequisite: Successful completion of Honors World History, and/or Departmental Recommendation

This intellectually intensive course is designed to instill in the student an awareness of the complexities of the cultural and physical geography in North and South America and to engender an intelligent and critical understanding of the interdependent relationship between the physical features and the human element. The highly motivated student will research, analyze, interpret, and assess the five themes of geography, including location and place. Special emphasis is placed on the human-environment interaction.

LLC 20th CENTURY AMERICAN CULTURES (LLC32311)

COLLEGE PREPARATORY

Credit: 1

Grade 11

NOT NCAA APPROVED

Prerequisite: Civics and Geography

This course is a concentrated examination of how the 20th century became the "American Century". The course begins with a study of the Imperialism that pushed America onto the world stage with the Spanish American War. While focusing on political and economic history, this course will include a study of American culture and its diversity. Students will develop a better understanding of what it means to be an American.

LLC INTRODUCTION TO ALGEBRA I (LLC33114)

COLLEGE PREPARATORY

Credit: 1

Grade 9

NOT NCAA APPROVED

Prerequisite: Teacher Recommendation

Introduction to Algebra I is designed to provide the student with the basic concepts of Algebra. The course will progress at a more deliberate pace than Algebra I and Honors Algebra I. The course will begin with reinforcement of basic math skills and will provide a smooth transition from arithmetic to algebra. Topics will include simplifying & evaluating expressions, solving, graphing & writing linear equations and inequalities and systems of equations and inequalities.

LLC ALGEBRA I (LLC33131)

COLLEGE PREPARATORY

Credit: 1

Grades 9, 10

NOT NCAA APPROVED

Prerequisite: Math 8

Algebra I is an in-depth discussion of the fundamentals of algebra with an emphasis on preparation for the Keystone Exam. This course builds the foundation for all future mathematics courses by applying the fundamental operations of arithmetic to algebraic techniques. Emphasis is placed on simplifying & evaluating expressions, solving, graphing & writing linear equations and inequalities and systems of equations and inequalities, polynomial operations, factoring, data analysis and probability. Successful completion of the Keystone Algebra I Assessment is expected at the culmination of the course.

LLC ALGEBRA II (LLC33211)

COLLEGE PREPARATORY

Credit: 1

Grades 9, 10, 11,12

NOT NCAA APPROVED

Prerequisite: Algebra I or Honors Algebra I

This course is an extension of the concepts developed in the Algebra I course. The course introduces the graphing of linear functions and the solutions to systems of linear equations and inequalities.

Emphasis is placed on methods of factoring polynomial expressions, solving polynomial equations, irrational and complex numbers, and quadratic functions.

LLC HONORS ALGEBRA II (LLC33212)

HONORS

Credit: 1

Grade 9

NOT NCAA APPROVED

Prerequisite: Successful completion of Honors Algebra I or Dept. Chair Recommendation

This course is an extension of the concepts covered in the Algebra I Honors course. This course introduces the graphing of linear functions and inequalities. Topics explored include factorization of polynomial and rational expressions, solving polynomial equations, and irrational and complex numbers. Algebra II Honors will address topics in triangle trigonometry, exponential and logarithmic functions, and sequences and series of numbers.

LLC GEOMETRY (LLC33321)

COLLEGE PREPARATORY

Credit: 1

Grades 10, 11

NOT NCAA APPROVED

Prerequisite: Algebra II or Algebra I with Teacher Recommendation

This course is designed to emphasize the study of the properties and applications of common geometric figures in two and three dimensions. Topics proceed from the undefined terms point, line, and plane, through deductive and inductive methods of reasoning, perpendicular and parallel lines, triangles, circles and various polygons. Emphasis is placed on showing congruence or similarity by formal proofs. Relationships involving similar triangles and similar polygons are also discussed.

LLC HONORS GEOMETRY (LLC33332)

HONORS

Credit: 1

Grades 10

NOT NCAA APPROVED

Prerequisite: Successful completion of Honors Algebra II or Dept. Chair Recommendation

This course is designed for the advanced math student. Topics to include points, lines, lines planes angles parallel and perpendicular lines, and inductive and deductive reasoning. Further topics emphasized are congruent triangles, similar triangles, and triangles, and quadrilaterals. Honors Geometry students will study in depth right triangle relationships, proofs, circles and the area and volume of assorted figures.

LLC Geometry/Basic (LLC33314)

COLLEGE PREPARATORY

Credit: 1 Grades 10,11

NCAA Approved 1 Credit**Prerequisite: Teacher Recommendation**

This course is designed to provide the student with basic concepts of geometry. The course progresses from the undefined terms of point, line and plane, through perpendicular and parallel lines, triangles, circles, and various polygons. Some basic proofs are presented.

LLC PRE-CALCULUS (LCC33411)

COLLEGE PREPARATORY

Credit: 1 Grades 11, 12

NOT NCAA APPROVED**Prerequisite : Successful completion of Algebra II and Geometry (Can be taken concurrently with teacher approval)**

This course is a must for any college bound student. Pre-Calculus combines the topics of trigonometry, analytic geometry, and elementary functions to lay a broad base upon which to build calculus. Emphasis is placed on trigonometric functions and their properties, linear relations and functions, matrices, conics, and polynomial, rational, exponential and logarithmic functions. Students entering Pre-Calculus are encouraged to have a TI-84 Plus graphing calculator.

LLC HONORS PRE-CALCULUS (LLC33412)

HONORS

Credit: 1 Grades 11

NOT NCAA APPROVED**Prerequisite: Successful completion of Honors Algebra I, Honors Algebra II, Honors Geometry or current Math Teacher recommendation**

This course is a must for any college bound student. Honors Pre-Calculus will rigorously cover the topics of trigonometry, analytic geometry, and elementary functions. Emphasis is placed on trigonometric functions and their properties, linear relations and functions, matrices, conics, and polynomial, rational, exponential and logarithmic functions. This course will include the extensive use of a graphing calculator. Students entering Pre-Calculus are encouraged to have a TI-84 Plus graphing calculator.

LLC CALCULUS (LLC33421)

COLLEGE PREPARATORY

Credit: 1 Grades 12

NOT NCAA APPROVED**Prerequisite: Pre-Calculus or Honors Pre-Calculus**

This course provides a great foundation for the student who will take calculus upon entering college. Emphasis is placed on the concept of a limit, the meaning and application of the derivative, related rate problems, graphing techniques and some basic techniques of integration. Also introduced are the Fundamental Theorem of Calculus, Rolle's Theorem and the Mean Value Theorem. This course will include the extensive use of a graphing calculator.

LLC STATISTICS (LLC33431)

COLLEGE PREPARATORY

Credit: 1 Grades 11 (with permission from department chair), 12

NOT NCAA APPROVED

This course is designed as an introductory Statistics class. Students will analyze and categorize types of data, identify and describe sources of bias and its effect, and draw conclusions from data. Students will also evaluate data-based reports and graphs by considering experimental design, appropriateness of the data analysis, and the soundness of the conclusions. Other topics explored will be the Basic Counting Principle, Combinations, and Permutations.

LLC PERSONAL FINANCE (LLC33441)

Credit: 1 Grade 12

NOT NCAA APPROVED

This course will inform students how individual choices directly influence occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing. Students will design personal and household budgets utilizing checking and savings accounts, gain knowledge in finance, debt and credit management, and evaluate and understand insurance and taxes. This course will provide a foundational understanding for making informed personal financial decisions leading to financial independence.

LLC BIOLOGY with VIRTUAL LABS (LLC34111)

COLLEGE PREPARATORY

Credit: 1

Grade 9

NOT NCAA APPROVED

This course deals with the study of life. Various topics encountered in this study of life include: contributions of various scientists to biological study, characteristics of living things, chemical basis of life, cellular structure and function, genetics, molecular biology, evolution, and ecology. Weekly laboratory sessions are an important part of the class and serve to reinforce the course content. The laboratory activities will be performed both individually and in groups. Also, students will be required to submit written lab reports based on their laboratory experiences. Successful completion of the Keystone Biology Assessment is expected at the culmination of the course.

LLC HONORS BIOLOGY with VIRTUAL LABS (LLC34112)

HONORS

Credit: 1

Grade 9

NOT NCAA APPROVED

Prerequisite: Successful completion of Honors Introduction to Biology and/or Teacher Recommendation.

The Honors Biology program is designed for those college bound students with a special aptitude, motivation, and interest in the life sciences. Following the same format as College Preparatory Biology, the course deals with those same topics using an accelerated pace, greater depth and analysis of topics, and numerous laboratories. Successful completion of the Keystone Biology Assessment is expected at the culmination of the course.

LLC EARTH & SPACE SCIENCE (LLC34211)

COLLEGE PREPARATORY

Credit: 1

Grade 9-12

NOT NCAA APPROVED

Prerequisite: May be taken concurrently with Biology, Chemistry or Honors Chemistry

Earth and Space Science is designed to actively involve students in an examination of the natural forces at work on Earth and throughout the universe. This is accomplished through both classroom instruction and laboratory exploration of a broad survey of geology, oceanography, meteorology, and astronomy. An environmental component will also be discussed concerning watersheds, wetlands, and human environmental impacts.

LLC HONORS EARTH & SPACE SCIENCE (LLC34212)

HONORS

Credit: 1

Grade 9-12

NOT NCAA APPROVED

Prerequisite: Successful completion of Honors Introduction to Biology or Honors Biology. May be taken concurrently with Biology, Chemistry or Honors Chemistry and Departmental recommendation required

This course is designed to provide educational opportunities beyond the regular curriculum for the academically talented and highly motivated student interested in any of the sciences. It is designed to provide a solid foundation upon which students' can build an advanced high-school science curriculum. Classroom instruction is complimented by in class and virtual laboratory investigations on both traditional and current science issues. The course surveys the natural forces at work in our environment, geology, oceanography, meteorology, and astronomy. An environmental component is also investigated during the course of the year.

LLC APPLIED CHEMISTRY (LLC34224)

COLLEGE PREPARATORY

Credit: 1 Grades 10, 11, 12

NOT NCAA APPROVED**Prerequisite: Teacher Recommendation**

This class is designed to provide the student with the basic concepts of chemistry with fundamental mathematics applied throughout the course. This course will cover all the topics covered in Chemistry but at a much more deliberate pace.

LLC CHEMISTRY (LLC34231)

COLLEGE PREPARATORY

Credit: 1 Grades 10, 11, 12

NOT NCAA APPROVED**Prerequisite: Biology/Honors Biology required. May be taken concurrently with Earth/Space. Algebra II required and or concurrent.**

This course is designed to give a general background in the model concept part of chemistry and chemical experimentation, with emphasis upon problem solving. Topics such as the classes of matter, the mole concept, problem solving skills, atomic structure, periodicity, chemical bonding, chemical formulas, chemical equations, stoichiometry, and gas laws will be covered. Laboratory work will be an integral part of this course. Students should expect to spend more than the usual amount of time studying text and class material.

LLC HONORS CHEMISTRY (LLC34232)

HONORS

Credit: 1 Grades 10, 11, 12

NOT NCAA APPROVED**Prerequisites: Successful completion of Honors Biology. Algebra II required or concurrent. May be taken concurrently with Earth/Space and or Physics/Honors Physics with Departmental recommendation.**

This course is designed for the highly motivated and self-disciplined college bound student who is interested in the science and/or medical field. This course will cover all the topics covered in Chemistry but at a much accelerated pace. Additional topics to be discussed will be liquids and solids, solutions chemistry. Laboratory work will be an integral part of this course. Students should expect to spend more than the usual amount of time studying text and class materials. This course is highly recommended for anyone interested in a career in the science and/or health fields.

LLC PHYSICS (LLC34311)

COLLEGE PREPARATORY

Credit: 1 Grades 11, 12

NOT NCAA APPROVED**Prerequisites: Algebra II and Geometry with a minimum of 84 grade average in both subjects. May be taken concurrently with Chemistry/Honors Chemistry or any other upper level science courses.**

This course is designed to give the student a solid background in classical physics. Emphasis is placed on solving equations, thus a solid background in mathematics is required. Topics include: kinematics, Newton's laws, vector addition, forces in one and two dimensions, gravitation, rotational motion, momentum and its conservation, work, energy, and its respective conservation.

LLC HONORS PHYSICS (LLC34312)

HONORS

Credit 1 Grades 11, 12

NOT NCAA APPROVED**Prerequisites: Successful completion of Honors Biology or Honors Earth and Space Science. Algebra II and Geometry with a minimum of a 84 average in both subjects. May be taken concurrently with Honors Chemistry or any of the other upper level science courses.**

This course is designed for the self motivated college bound or technology oriented student with a strong background in mathematics. It will provide a solid background for those students intending to pursue studies in science, engineering, mathematics, or related fields at the college level. The pace of the course will be accelerated and the material covered will be more in depth versus the traditional physics course. Topics include: kinematics, Newton's laws, forces in one and two dimensions, gravitation, rotational motion, momentum and its conservation, thermal energy, vibration, waves, and an introduction to electricity. Additional laboratory time will be required for this course.

LLC ANATOMY & PHYSIOLOGY (LLC34421)

COLLEGE PREPARATORY

Credit: LLC ANATOMY .5 and PHYSIOLOGY .5

Grades 11, 12

NOT NCAA APPROVED**Prerequisites: Successful completion of Biology and Chemistry. Teacher Recommendation required.**

This class is designed for motivated students who are interested in a career in the medical field but have not had previous experience in honors level courses. It will provide students with an overview of the anatomy and physiology of a normal human body and its major parts. Students entering this course should have a basic understanding of biology and chemistry, including biochemistry, cell structures, and cell functions. Course topics include biochemistry, cell anatomy and physiology, anatomical terminology, tissues, and the anatomy and physiology of major body systems. Laboratory reports and microscopy are important parts of this course.

LLC HONORS ANATOMY & PHYSIOLOGY (LLC34422)

COLLEGE PREPARATORY

Credit: LLC ANATOMY .5 and PHYSIOLOGY .5

Grades 11, 12

NOT NCAA APPROVED**Prerequisites: Successful completion of Biology and Chemistry. Teacher Recommendation required.**

This class is designed for motivated students who are interested in a career in the medical field but have not had previous experience in honors level courses. It will provide students with an overview of the anatomy and physiology of a normal human body and its major parts. Students entering this course should have a basic understanding of biology and chemistry, including biochemistry, cell structures, and cell functions. Course topics include biochemistry, cell anatomy and physiology, anatomical terminology, tissues, and the anatomy and physiology of major body systems. Laboratory reports and microscopy are important parts of this course.

LLC ENVIRONMENTAL SCIENCE (LLC34431)

COLLEGE PREPARATORY

Credit: 1

Grades 11,12

NOT NCAA APPROVED

This course is designed to teach the fundamentals of natural resource management, adaptability of species to an environment, and the importance of environmental preservation. Environmental laws, regulations and current issues will be explored. The economic impact of environmental resources will also be examined, with an emphasis placed on issues directly affecting the northeast region of Pennsylvania. *Students who enroll in AP Biology, AP Chemistry, Physics, Honors Physics, Anatomy & Physiology, Honors A & P are exempt from this course.*

LLC HONORS ENVIRONMENTAL SCIENCE (LLC34432)

HONORS

Credit: 1

Grades 11,12

NOT NCAA APPROVED

This course is designed for the highly motivated student interested in pursuing environmental science as an area of focus in college and as a career option. Students will be provided with a comprehensive study of natural resource management, adaptability of species to environment, and the importance of environmental conservation. Students will study the biological and chemical principles that relate to environmental laws, regulations, and current issues in a fast-paced, interactive format. Scientific analysis and solutions will be used to address the economic and ecological impact of environmental resource acquisition and consumption, with emphasis placed on issues directly affecting the northeast region of Pennsylvania. Students considering this course must be proficient in science, math and writing. Since this is an honors level course, students are expected to spend more than the usual amount of time studying text and class materials. Students must have successfully passed Biology and Chemistry and have a recommendation from a previous teacher.

LLC HONORS PHYSICS II (LLC34442)

HONORS

Credit 1

Grade 12

NOT NCAA APPROVED

Prerequisite: Successful completion of Honors Physics and Honors Pre Calculus with a minimum of a 84 average in both subjects. May be taken concurrently with any of the other upper level science courses. This course is designed for the self motivated college bound or technology oriented student with a strong background in mathematics. It will provide an expanded background for those students intending to pursue studies in science, engineering, mathematics, or related fields at the college level. The course is a continuation of first level physics, with the goal of introducing more advanced topics and further expanding the students understanding of physical science. Topics include: DC Circuits, Ohm's Law, Electromagnetism, Thermodynamics, Light and Optics, Fluid Mechanics and Nuclear Physics. Additional laboratory time will be required for this course.

GRADUATION REQUIREMENT ELECTIVES

LLC PHYSICAL EDUCATION (LLC35121/LLC35321)

REQUIRED

Credit: .5 Grades 9,11

Prerequisite: None

Students will participate in physical activities including team sports, individual sports, cooperation activities, and physical fitness activities. Participating students will increase their fitness and learn activities designed for lifetime fitness.

LLC WELLNESS 10 (LLC35221)

REQUIRED

Credit: .5 Grade 10

Wellness 10 is a quarter course that addresses many aspects of a teen's well-being, including those that have a potential impact on his/her mental, physical, emotional, or social well-being. The units are designed to encourage students to make responsible, respectful, informed, and capable decisions about topics that affect the well-being of themselves and others. It is comprised of two portions of the class, one portion is physical education and takes place either in the gymnasium or outdoors. The other portion of the course addresses health issues and takes place in a classroom setting.

LLC WELLNESS 12 (LLC35431)

REQUIRED

Credit: .5 Grade 12

Wellness 12 is a quarter course where students will continue to develop their grasp of health education skills as they explore contemporary health topics and trends. The focus will be on the issues and challenges today's young adults face. Students will explore the combinations of both strength and cardiovascular fitness. Students will be expected to create their own plan and work on it after teacher approval. Wellness 12 students will also complete a unit on first aid and CPR. It is comprised of two portions of the class, one portion is physical education and takes place either in a gymnasium or outdoors. The other portion of the course addresses health issues and takes place in a classroom setting.

FRESHMAN CAREERS (15111)

REQUIRED

Credit: .13 Grade 9

NOT NCAA APPROVED

Prerequisite: None

In this course students will utilize the Choices 360 Career Exploration Program to discover their interest areas in order to make informed decisions regarding their future. In order to create their high school transition plan, the students will complete a work values sorter, transferrable skill checklist, and career key to establish their plan of study.

IS SOPHOMORE CAREERS (15231)

REQUIRED

Credit: .13 Grade 10

NOT NCAA APPROVED

Prerequisite: None

In this course students will utilize the Choices 360 Career Exploration Program to discover their interest areas in order to make informed decisions regarding their future. Our students will obtain career acquisition skills through the implementation of job interview practice information and videos, resume building, as well as, creating thank you and cover letters.

IS JUNIOR CAREERS (15311)

REQUIRED

Credit: .13 Grade 11

NOT NCAA APPROVED

Prerequisite: None

In this course students will utilize the Choices 360 Career Exploration Program to discover their interest areas in order to make informed decisions regarding their future. This program will allow our students to discover career retention and advancement skills by establishing a post-secondary plan.

Financial Literacy (15441)

REQUIRED (Exempt if you have taken Personal Finance)

Credit: .50 Grade 12

NOT NCAA APPROVED

This quarter-long financial literacy course covers all of the essential personal finance topics necessary to become a financially capable student. Topics include banking, credit, budgeting, taxes, insurance and consumer skills.

LLC CHARACTER DEVELOPMENT (LLC35411)**REQUIRED**

Credit: .25 Grade 12

NOT NCAA APPROVED

This course will assist students' development of higher order of thinking skills. Globalization of the world in the 21st century will affect all citizens in all nations. This course examines the relationship between the student's ability to think critically and to make responsible decisions. Selected readings will be used as discussion forums. Skills learned in the course can be applied to other courses in high school, as well as important life decisions students will face after high school.

WORLD LANGUAGE ELECTIVES (CONTINUED)

LLC SPANISH I (LLC36751)

ELECTIVE

Credit: 1 Grades 9, 10, 11, 12

NOT NCAA APPROVED

Prerequisite: None

Spanish I emphasizes communication in both the written and spoken form as well as development of listening and reading skills. A wide range of vocabulary units are covered, including family and friends, daily life, the community and school. Communication is conducted primarily in the present tense. Emphasis is placed on proper pronunciation techniques of the target language. Cultural awareness is an important aspect of the course as students are not only exposed to the language, but to a study of the people and their customs as well.

LLC SPANISH II (LLC36761)

ELECTIVE

Credit: 1 Grades 10, 11, 12

NOT NCAA APPROVED

Prerequisite: Successful completion of Spanish I

Spanish II further develops the vocabulary of Spanish I as it is an extension of the previous course. Vocabulary is enhanced through conversations pertaining to topics such as technology, school, past times, and descriptions of self and others. Reading selections are mainly comprised of short stories and fairy tales in the target language. Grammatically, students are presented with the present and past tenses, as well as commands. Cultural exploration continues through a study of Hispanic media, music and current events.

LLC SPANISH III (LLC36771)

ELECTIVE

Credit: 1 Grades 11, 12

NOT NCAA APPROVED

Prerequisite: Successful completion of Spanish II

All grammar to date will be utilized and the subjunctive mood will be introduced. Continued emphasis will be on reading, writing and speaking. Spontaneous and directed dialogues will be employed. Short stories and classic literature, including selections from Don Quixote, will be presented. Writing will become increasingly self-directed and will touch upon a variety of themes, from classic literature to contemporary.

SOCIAL STUDIES ELECTIVES

LLC PSYCHOLOGY (LLC36611)

ELECTIVE

Credit: 1

Grades 11, 12

NOT NCAA APPROVED

Prerequisite: None

This elective provides a basic understanding of behavioral science by surveying the major principles of psychology. This course introduces the history of psychology, research methodologies, learning and memory, level of consciousness, biological bases of behavior, personality development, abnormal behavior, and treatment of psychological disorders. The course is designed to prepare students for college level introductory psychology.

LLC SOCIOLOGY (LLC36621)

ELECTIVE

Credit: .5

Grades 11, 12

NOT NCAA APPROVED

Prerequisite: None

This course provides a challenging and thought-provoking survey of the study of human society and social interaction. The course examines the origins of sociological thought, theoretical perspectives, and the role of culture in society. Special emphasis is placed on the process of socialization, stratification, mobility, social movements and institutions on national global levels.

LLC Economics (LLC36631)

ELECTIVE Grades 10, 11, 12

Credit: .5

NOT NCAA APPROVED

Prerequisite: None

This course examines how goods and services are created, consumed, and exchanged. This course covers basic economic problems such as scarcity, choice, and effective use of resources. It also covers topics on a larger scale such as market structures and international trade. It particularly focuses on the US economy and analyzes the role of the government and the Federal Reserve System.

SCIENCE ELECTIVES

LLC INTRODUCTION TO FORENSICS (LLC34351)

ELECTIVE

Credit: .5

Grades 11, 12

NOT NCAA APPROVED

Prerequisite: Biology, Chemistry

In Introduction to Forensic Science, you will learn about the importance and limitations of forensic science and explore different career options in this field. You will also learn to process a crime scene, collect and preserve evidence, and analyze biological evidence such as fingerprints, blood splatter, and DNA. Moreover, you will learn to determine the time and cause of death in homicides and analyze ballistic evidence and human remains at a crime scene. Finally, you will learn about forensic investigative methods used in arson, computer crimes, financial crimes, and forgeries.

LLC INTRODUCTION TO MARINE BIOLOGY (LLC34341)

ELECTIVE

Credit: .5

Grades 11, 12

NOT NCAA APPROVED

Prerequisite: Biology, Earth and Space Science

In the Introduction to Marine Biology course you will explore the fundamental concepts of marine biology. You will learn about the formation and characteristic features of the oceans. You will also learn about the scientific method and explore careers available in marine biology. The course will introduce you to the characteristic features of different taxonomic groups found in the ocean. You will learn about the different habitats, life forms, and ecosystems that exist in the oceans and explore the different types of adaptations marine creatures possess to survive in the ocean. You will learn about succession and the flow of energy in marine ecosystems. Finally, you will also learn about the resources that the ocean provide and the threats that the oceans face from human activities.

LLC Astronomy (LLC34361)

ELECTIVE Grades 11, 12

Credit: .5

NOT NCAA APPROVED

In this course, you will learn about the history of astronomy from ancient times to modern times. You will identify the movements of the Sun, Moon, planets, and stars across the sky. You will describe the formation of the solar system, and the role of the Sun and Moon in the solar system. You will describe the causes of seasons on Earth and the reasons for life on Earth. You will learn about stars, galaxies, and the Milky Way. You will explain various theories of cosmology, and advantages and disadvantages of space exploration.

LANGUAGE ARTS ELECTIVES**LLC Creative Writing (LLC35621)**

ELECTIVE Grades 10, 11, 12

Credit: .5

NOT NCAA APPROVED

In Creative Writing, you will learn about the scope of creative writing and its genres. You will identify the key elements of prose and poetry. You will look at writing for stage, film, and TV. You will learn about theatrical and film techniques, as well as technical effects that are typically used in electronic media. You will look at writing for younger audiences, for advertising, and journalism. You will learn how the publishing industry works.

LLC Mythology (LLC36531)

ELECTIVE Grades 11, 12

Credit: .5

NOT NCAA APPROVED

In this course, you will describe myths related to the creation of the world, the natural elements, and the destruction of the world. You will identify the main characters of various dynastic dramas, love myths, and epic legends and describe their journeys. You will trace the evolution of folklore and describe folktales from around the world.

LLC Gothic Literature (LLC36541)

ELECTIVE Grades 11, 12

Credit: .5

NOT NCAA APPROVED

This course explores different conventions, themes, and elements of Gothic literature through the analysis of representative literary works, such as Emily Dickinson's poems about mortality and spirituality, Robert Louis Stevenson's classic Gothic novella *Strange Case of Dr. Jekyll and Mr. Hyde*, Edgar Allan Poe's Gothic short stories, Bram Stoker's *Dracula*, Robert Browning's Gothic poems, Percy Bysshe Shelley's Gothic drama, *The Cenci*, Mary Shelley's classic Gothic novel, *Frankenstein*, Gothic parodies and Gothic subgenres, and modern Gothic literature.

FINE ARTS ELECTIVES**LLC Music Appreciation (LLC30101)**

ELECTIVE Grades 10, 11, 12

Credit: .5

NOT NCAA APPROVED**Prerequisite: None**

This course is intended as a practical, hands-on guide to introduce you to the field of music appreciation. You'll first identify elements and patterns in music and learn to identify various elements of musical notation. Next, you'll explore the history and evolution of music from the Middle Ages through to the modern era. Then, you'll learn about the influence of music on society and culture. Finally, in the last few lessons you'll learn of the various compositional and expressive devices and how to evaluate a concert.

Specialized Program of Instruction

FUNCTIONAL LANGUAGE ARTS (19111)

Credit: 1

Grades 9-12

NOT NCAA APPROVED

Functional Language Arts focuses on the fundamental language skills of reading, writing, speaking, listening, thinking, viewing and presenting. This course is designated to prepare students with appropriate reading skills to navigate in our community. Students develop their reading and writing skills for real world applications.

GENERAL HISTORY 9 (18141)

Credit: 1

Grade 9

NCAA Approved 1 Credit

This course is designed to reinforce and develop student's skills in geography on each student's instructional level. Students will learn to read maps, charts, study landforms, locate continents, oceans, learn about earth's natural resources, practice conservation, and apply vocabulary terms.

GENERAL HISTORY 10 (18241)

Credit: 1

Grade 10

NCAA Approved 1 Credit

This course is designed to reinforce and develop knowledge of history on each student's instructional level. Students will study world events from Pre-history, as well as early civilizations in the East, Middle East, Egypt, Greek and Roman times.

GENERAL HISTORY 11 (18341)

Credit: 1

Grade 11

NCAA Approved 1 Credit

This course is designed to reinforce and develop knowledge of history on each student's instructional level. Students will study world events from The Middle Ages, The Renaissance, The Reformation, The Age of Kings, as well as the early explorations from 1450-1815. This class will also introduce basic geography skills.

GENERAL HISTORY 12 (18441)

Credit: 1

Grade 12

NCAA Approved 1 Credit

This course is designed to reinforce and develop knowledge of history on each student's instructional level. Students will study past events that have affected growth and development in the United States from the European Settlers to the Reconstruction after the Civil War.

BASIC INTRODUCTION TO ALGEBRA (17121)

Credit: 1 Grades 9,10,11,12

NCAA Approved .5 Credit

Basic Introduction to Algebra is for the learning support student who requires an individualized approach to instruction. There are four main components to this course: The Real Number System, Algebraic Expressions, Equations & Inequalities, and Functions & Linear Relationships. An emphasis is made to incorporate hands-on projects and activities in order to promote retention and understanding. This course will cover all of the necessary prerequisite materials in order to promote success in Basic Algebra 1A.

BASIC ALGEBRA 1 A (17221)

Credit 1 Grades 9, 10, 11, 12

NCAA Approved .5 Credit

Basic Algebra 1A is for the learning support student who requires an individualized approach to instruction. There are four main components to this course: Algebra Basics, Multi-Step Equations & Inequalities, Relations & Functions, and Linear Equations. An emphasis is made to incorporate hands-on projects and activities in order to promote retention and understanding. This course should be followed by Basic Algebra 1B.

BASIC ALGEBRA I B (17321)

Credit: 1 Grades 9, 10, 11,12

NCAA Approved .5 Credit

Basic Algebra 1B is for the learning support student who requires an individualized approach to instruction. There are four main components to this course: Direct & Inverse Variation, Systems of Equations & Inequalities, Exponents & Exponential Functions, and Polynomials & Factoring. An emphasis is made to incorporate hands-on projects and activities in order to promote retention and understanding. Students will take the Keystone Examination at the conclusion of this course.

GENERAL INTRODUCTION TO ALGEBRA (18121)

Credit: 1 Grades 9,10,11,12

NCAA Approved .5 Credit

General Introduction to Algebra is for the emotional support student who requires an individualized approach to instruction. There are four main components to this course: The Real Number System, Algebraic Expressions, Equations & Inequalities, and Functions & Linear Relationships. An emphasis is made to incorporate hands-on projects and activities in order to promote retention and understanding. This course will cover all of the necessary prerequisite materials in order to promote success in General Algebra 1A.

GENERAL ALGEBRA 1 A (18221)

Credit 1 Grades 9, 10, 11, 12

NCAA Approved .5 Credit

General Algebra 1A is for the emotional support student who requires an individualized approach to instruction. There are four main components to this course: Algebra Basics, Multi-Step Equations & Inequalities, Relations & Functions, and Linear Equations. An emphasis is made to incorporate hands-on projects and activities in order to promote retention and understanding. This course should be followed by General Algebra 1B.

GENERAL ALGEBRA I B (18321)

Credit: 1 Grades 9, 10, 11,12

NCAA Approved .5 Credit

General Algebra 1B is for the emotional support student who requires an individualized approach to instruction. There are four main components to this course: Direct & Inverse Variation, Systems of Equations & Inequalities, Exponents & Exponential Functions, and Polynomials & Factoring. An emphasis is made to incorporate hands-on projects and activities in order to promote retention and understanding. Students will take the Keystone Examination at the conclusion of this course.

FUNCTIONAL MATH (19121)

Credit: 1 Grades 9-12

NOT NCAA APPROVED

This course is designed to prepare students with the mathematical concepts utilized in today's society. Students will integrate math concepts into their daily living skills. Community materials such as menus, maps, schedules and banking will be the foundation of the student's math practice.

REMEDIAL MATH (17151)

ELECTIVE

Credit: 1 Grades 9-12

NOT NCAA APPROVED

This course is designed for students to engage in additional practice in the areas of basic numbers, basic operations, concepts of algebra, problem solving, probability and geometry. Each student's mathematical difficulties will be individually identified, re-introduced and supported with opportunities for repetition. The use of calculators will be implemented during instruction.

BASIC BIOLOGY (17131)

Credit: 1 Grade 9

NCAA Approved 1 Credit

This course is designed to introduce students to the study of life. Students will explore the history of significant scientists, living organisms and cellular structures and functions. Additional units will be studied discussing evolution, ecology and genetics.

BASIC EARTH AND SPACE SCIENCE (17231)

Credit: 1 Grade 10

NCAA Approved 1 Credit

This course is designed to capture students' attention with hands-on activities that can be applied to everyday life. Students will explore the solar system, earth, moon and stars. Additional units will be studied discussing minerals, rocks, weather, climate and erosion.

BASIC CHEMISTRY (17331)

Credit: 1 Grade 11

NCAA Approved 1 Credit

This course is designed to introduce Chemistry to students. The students will explore topics such as: matter, atomic structure, the periodic table, gases, solutions, compounds and oxidation-reduction reactions. The course also utilizes mathematical skills for equations and formulas.

GENERAL BIOLOGY 9 (18131)

Credit: 1 Grade 9

NCAA Approved 1 Credit

This course deals with the study of life. Various topics encountered in this study of life include: science and the characteristics of living things, cell structure and function, cells and energy, heredity, genetics, simple organisms, ecology, animal behaviors, cycles in nature, natural resources and evolution. The topics will be facilitated in a small group setting or one-on-one instruction with an emphasis on behavioral reinforcement.

GENERAL EARTH AND SPACE SCIENCE 10 (18231)

Credit: 1 Grade 10

NCAA Approved 1 Credit

This course deals with natural forces at work on Earth the universe. Various topics encountered in this study of the Earth and universe include: the earth and moon systems, solar systems, stars and galaxies, earth's atmosphere. Weather and climate, weathering and erosion, earth's water and forces in the earth. The topics will be facilitated in a small group setting or one-on-one instruction with an emphasis on behavioral reinforcement.

GENERAL CHEMISTRY 11 (18331)

Credit: 1 Grade 11

NCAA Approved 1 Credit

This course deals with the properties and interactions of matter. Various topics encountered in this study of matter include: chemistry and measurement, matter formulas and compounds, states of matter, atomic theories and periodic table. The topics will be facilitated in a small group setting or one-on-one instruction with an emphasis on behavioral reinforcement.

GENERAL ENVIRONMENTAL SCIENCE 12 (18431)

Credit: 1 Grade 12

NCAA Approved 1 Credit

This course deals with how the Earth's systems function, how we influence these systems and how we can use science to change the world in which we live. Various topics encountered in this study of the environment include: environmental science policy and systems, ecology, earth's resources, global climate, and energy resources. The topics will be facilitated in a small group setting or one-on-one instruction with an emphasis on behavioral reinforcement.

ADULT LIVING (19141)

Credit: 2

Grades 9, 10, 11, 12

ELECTIVE

NOT NCAA APPROVED

This course is designed for the students needing instruction in various independent living skills. It involves numerous performance areas, such as: cooking, travel training, money management, sewing, housekeeping, comparison shopping, interpersonal skills, and community service. Students spend at least 2 class periods per week in the community. These skills will be developed on each student's instructional level. Students will be involved in a service learning project.

LIFE SKILLS (19151)

Credit: 1

Grade 9, 10, 11, 12

ELECTIVE

NOT NCAA APPROVED

This course will prepare students with functional daily living skills. Students will open bank accounts and understand/complete transactions. Students will explore career math utilizing maps, menus and schedules. Job skill training will be provided in the area of office duties (receptionist skills) and Various community based trips.

Advanced Placement (AP)

All Lake-Lehman AP Courses have received official authorization by the College Board as AP courses. Advanced placement is a cooperative education endeavor between secondary schools and colleges/universities. The advanced placement program is for students who are willing and able to apply themselves to college level studies

Alternate Course

An alternate is a second course selection made by students for use in situations when a first-choice course cannot be scheduled.

Class Rank

Class rank is a procedure by which each student is numerically ranked according to his/her weighted grade point average

College Preparatory Courses

For those who plan to pursue post-secondary education, enlist in the military or join the workforce.

Conflict

A scheduling conflict occurs when two or more courses that a student wants or needs are offered at the same time.

Credits

One credit is earned upon successful completion (passing grade) of a major course which meets the equivalent of one period daily for a full school year. Partial credits are offered for marking period, semester and minor courses.

Elective Course

Electives are courses that students choose to take. Electives, by definition, are not required. However, students may be required to choose from a variety of electives in order to meet distribution requirements.

Extracurricular Activities

Extracurricular activities refers to student clubs and activities which meet outside of the regular school day and which are not part of specific courses within the traditional school curriculum.

Honors Courses

Honors courses are those which are taught at a high school level but which, like AP courses, provide the greatest challenge and the best preparation for admission to and success at highly selective colleges.

Interscholastic

Interscholastic refers to athletic and scholastic activities which involve competitive events with other area secondary schools.

NCAA

If you are planning to enroll in college as a freshman and wish to participate in Division I or Division II athletics you must be certified by the NCAA Eligibility Center. Contact your guidance counselor for more details or visit: <https://web3.NCAA.org>ecwrs>

Prerequisite

A prerequisite is a course that a student must complete in order to qualify for entry into another course. For example, before students can take Geometry he or she must have completed Algebra II. Therefore, Algebra II is a prerequisite to Geometry.

Quarter

45 School Days equal one quarter or marking period.

Required Elective Course

A required elective course is one which must be taken by all students. Examples of required elective courses are Child Development, Character Development, Wellness, and Physical Education.

Term

A term is one-half of a school year and includes two of the four marking periods. The first semester begins in September and ends in late January. The second term begins in late January and ends in June.

Young Scholars

Young Scholars is open to eleventh and twelfth grade students interested in enrolling in college level courses. Young Scholars courses cannot replace any required classes necessary for graduation.

