

HIGH SCHOOL

PROGRAM OF STUDIES



2017 - 2018

For updates or more information visit www.nlsd.org

**Northern Lehigh High School
1 Bulldog Lane
Slatington, PA18080**

**Main Office - 610-767-9832
Guidance Office - 610-767-9837
Athletics - 610-767-9840**

High School Administration

Mr. Robert L. Vlasaty, Principal
Mrs. Tanya Simms, Assistant Principal

School Counselors

Mrs. Allison Chruscial
Mrs. Sheila Lanshe

Director of Special Education Services

Mrs. Michele Dotta

Director of Athletics

Mr. Bryan Geist
Mr. Joseph Tout, Assistant

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NLHS Mission Statement

Northern Lehigh High School, a small, proud community, empowers learners to become responsible, contributing citizens through challenging and evolving educational experiences.



Principal's Message

Dear Parents/Guardians/Students,

The staff and administration of the Northern Lehigh High School have prepared this Program of Studies booklet in an effort to help you during the course selection process. Included in this booklet is a list of basic course descriptions which have been designed to help you decide upon your academic program based on your course history, interests, academic ability and motivation, personality and, most importantly, your future academic and career plans. High School students of the 21st Century, as they decide upon their future careers, face many difficult decisions and an infinite number of options. Planning a program of studies to meet the varied demands and interest of every student is a challenging task, yet one we take very seriously in revisiting the booklet every year. Our number one goal is to provide you with as much information, guidance, and individual assistance as possible in order to make that choice.

The scheduling process that we utilize is a cooperative format that includes input from students, parents, advisors, counselors and teachers and will begin with a personal meeting between you and your guidance counselor in an effort to discuss your options and individual goals. If you have any specific questions concerning courses or career plans, most can be answered in this booklet, however, if additional information is needed, please do not hesitate to contact your guidance counselor, teachers or administrators. We look forward to planning the 2017-2018 school year with you and to watching you evolve into a successful, contributing member of our society!

Our Best Wishes,

Robert L. Vlasaty

Robert Vlasaty
Principal, NLHS

Tanya Simms

Tanya Simms
Assistant Principal, NLHS

VISION

In our vision of the [Northern Lehigh School District](#), parents, school, and community will work together to achieve [quality education goals](#) and remain [accountable to all learners](#). As we instill a love of learning as a lifelong pursuit for each individual, we will strive for a renewed sense of community pride and involvement.

Education will take place in a safe environment where learning is fun.

State-of-the-art technology and a broadened curriculum will provide a wide range of academic and extracurricular activities. We will encourage success for each learner by providing a system of alternative strategies for instruction and assessment.

Our learners will have:

- **Creative, critical thinking skills necessary to be successful in our competitive global world.**
- **Self-esteem, self-discipline and a sense of responsibility that enables them to meet challenges, be team players and respect others' differences.**
- **Communication, technical and life skills to gather information, solve problems, and to be adaptable.**
- **An awareness of physical and mental health, a developed appreciation for nature, the fine arts.**
- **A vision for success.**

We believe:

1. **All students can learn and succeed.**
2. **Positive attitude and self-esteem enhance the learning process.**
3. **Learning is a lifelong process.**
4. **Education has the responsibility to meet each learner's needs.**
5. **The educational system has a role as a support center for student and community social services.**
6. **Student achievement and motivation are enhanced by a quality learning environment.**
7. **Multicultural awareness is an integral part of a student's education.**
8. **The community and education systems are interdependent.**
9. **Ongoing staff development is essential to quality learning**
10. **Communication skills are essential to success.**

NONDISCRIMINATION POLICY

Northern Lehigh School District is an equal opportunity educational institution and will not discriminate on the basis of race, religion, age, color, national origin, sex, handicap or limited English proficiency in its activities, programs, or employment practices as required by Title VI, Title IX and Section 504. For information regarding civil rights or grievance procedures, contact the superintendent's office, Title IX and Section 504 coordinator, Administration Building, 1201 Shadow Oaks Lane, Slatington, PA 18080 610-767-9800. For information regarding services, activities and facilities that are accessible to and usable by handicapped persons also contact the superintendent's office.

NOTICE TO PARENTS OF HANDICAPPED

In compliance with state and federal law, the Northern Lehigh School District will provide to each protected handicapped student, without discrimination or cost to the student or family, those related aids, services or accommodations which are needed to provide equal opportunity to participate in and obtain the benefits of the school program and extracurricular activities to the maximum extent appropriate to the student's abilities. In order to qualify as a protected handicapped student the child must be of school age with a physical or mental disability which substantially limits or prohibits participation in or access to an aspect of the school program.

These services and protections for "protected handicapped students" are distinct from those applicable to all eligible or exceptional students enrolled (or seeking enrollment) in special education programs.

For further information on the evaluation procedures and provision of services to protected handicapped students, contact Mrs. Michele Dotta at 610-767-9858.

FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA)

The Family Educational Rights and Privacy Act (FERPA) for parents and students who are over eighteen years of age ("eligible students") provide certain rights with respect to the following:

I. RIGHT TO REVIEW STUDENT RECORDS

The right to inspect and review the student's education records within 45 days of the date the District receives a request for access.

Parents or eligible students should submit to the school principal or other appropriate school official a written request that identifies the records they wish to inspect. The principal will make arrangements for access and notify the parent or eligible students of the time and place where the records may be inspected.

II. RIGHT TO REQUEST AN AMENDMENT TO STUDENT RECORDS

Parents or eligible students may ask Northern Lehigh School District to amend a record that they believe is inaccurate or misleading. They should write the school principal, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading.

If the District decides not to amend the record as requested by the parent or eligible student, the District will notify the parent or eligible student of the decision and advise either of the right to a hearing regarding the request for the amendment. Additional information regarding the hearing procedures will be provided to the parent or eligible student when notified of the right to a hearing.

III. RIGHT TO CONSENT TO DISCLOSURES

The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent.

One exception which permits disclosure without consent is disclosure to school officials with legitimate educational interest or assisting another school official in performing his or her task.

A school official has a legitimate educational interest if the official needs to review an educational record in order to fulfill his or her professional responsibility.

Upon request, the District discloses educational records without consent to officials of another school district in which the student seeks or intends to enroll.

IV. RELEASE OF DIRECTORY INFORMATION

Since Federal law and state regulations do not prohibit schools from sharing class lists and student directories with Armed Forces recruiters, Northern Lehigh High School honors such requests. The law does require, however, that Northern Lehigh notify parents (or eligible student) of their right to restrict the release of this directory information. Therefore, if a person wishes to exercise this right, she/he should contact the high school main office (767-9832). Lists containing students' names, addresses, and phone numbers are classified in the Family Educational Rights and Privacy Act of 1974 as "Directory Information" and are not subject to the same type of confidentiality restrictions as are other portions of the student record.

V. PURGING (See School Board Policy #216)

VI. COMPLAINTS

Parents/guardians have the right to file a complaint with the United States Department of Education concerning alleged failures by the District to comply with the requirements of FERPA. The name and address of the office that administers FERPA is: Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue, SW, Washington, DC 20202-4605

STUDENT CREDIT REQUIREMENTS FOR GRADUATION

<u>FULL DAY STUDENT MANDATED REQUIREMENTS</u>		<u>LCTI MANDATED REQUIREMENTS</u> *Based on a student starting at LCTI in 9 th grade	
English	4 credits	English	4 credits
Mathematics	4 credits	Mathematics	4 credits
Science	3 credits	Science	3 credits
Social Studies	4 credits	Social Studies	3 credits
Computer Technology 21 st Century Skills required	2 credits	*Computer Technology 21 st Century Skills required	2 credits
Wellness/Fitness	3 credits	Wellness/Fitness	1 credit
Arts & Humanities	2 credits	Arts & Humanities	2 credits
Electives	4 credits	Remaining credits received at LCTI in chosen lab	
Minimum required credits for graduation	26 credits	Minimum required credits for graduation	26 credits

***NOTE:** Students taking Algebraic Concepts and Algebra IA as a 9th graders will only be required to have 1 Computer Technology credit.

Grade Promotion Requirements

SOPHOMORE:

A student will become a sophomore if they successfully complete a minimum of 6 total credits by the end of grade nine.

JUNIOR:

A student will become a junior if they successfully complete a minimum of 13 total credits by the end of grade ten.

SENIOR:

A student will become a senior if they successfully complete a minimum of 18 total credits by the completion of grade eleven.

NCAA REQUIREMENTS - DIVISION I AND II COLLEGE ATHLETICS

Students who want to participate in Division I or Division II athletics must receive certification by the NCAA Initial-Eligibility Clearinghouse.

To be certified, a student must be a high school graduate and meet minimum Grade Point Average (GPA) requirements in a core curriculum of at least 13 academic courses (grades 9-12). In addition, prospective Division I athletes must also attain a minimum SAT or ACT score - see the NCAA clearinghouse website – ncaaclearinghouse.net for more information. A list of approved courses is available in guidance. Please see your counselor to discuss this further.

A list of Northern Lehigh High School's approved courses can be found on page 61 of this guide.

COURSE CHALLENGE POLICY/PROCEDURES

Students may “challenge” a required graduation course in order to replace it with another course more preferred by the student. The requirement for a successful “challenge” may be, for example, a written examination, project, writing assignment, or any combination of these or other evaluative criteria. The specific requirements are determined by the professional staff within the curricular department in which the challenged course is offered.

A student must have maintained at least a 3.5 GPA in all other courses that were taken in the curricular area being challenged. For example, if a student challenges a science course, the student must have achieved at least a 3.5 in all previous science courses taken. Any interested student who has achieved the GPA requirement should see his/her counselor for additional requirements, mandated deadlines, and other information.

The minimum grade for a successful challenge is 93%. A student who earns a grade between 93% and 100% will receive course credit. Courses that are successfully challenged will not count towards a student's GPA or class rank.

EXAMINATIONS

Final examinations will be administered in all courses unless permission not to administer an end of year final exam is granted by the administration.

For determining Valedictorian and Salutatorian, NLSD will calculate Class Ranking at the conclusion of senior final exams in June.

GIFTED PROGRAM

Gifted students are identified through objective criteria developed by the Pennsylvania Department of Education. The criteria used to identify the mentally gifted include teacher recommendation, academic achievement, group and individual intelligence testing, and interest inventories. Gifted students are encouraged to take the most challenging class available to them.

INDEPENDENT STUDY

The opportunity for independent study is offered to students who have achieved a high scholastic standing (GPA of 3.0 or higher) in a particular curriculum area and possess the ability to work independently, accepting a high degree of responsibility for individual achievement. **Students selecting this avenue of extensive research must meet with the subject area teacher to determine whether an independent study project is feasible.** Independent study will only be available to students whose schedules are compatible with a teacher-advisor and if meeting space is available.

STEPS TO SCHEDULE AN INDEPENDENT STUDY

1. Contact the teacher that you are interested in doing an independent study with to see if it is feasible.
2. Pick up an Independent Study application form from the guidance office.
3. Schedule a meeting with the teacher-advisor to finalize their plans for their Independent Study and complete the application form and sign it.
4. Have parent/guardian sign the application form.
5. Submit completed application form with all signatures to the Guidance Department to obtain signatures from your counselor and administration.

- Note:
1. Grades received from an Independent Study course will be reflected in a student's GPA and class rank. Honors credit may be awarded if course is above what is offered at Northern Lehigh (i.e. Honors Physics III).
 2. Independent Study in any particular course will not be approved if the course is offered at Northern Lehigh High School, unless the student is unable to schedule due to taking courses through Emerging Health, or High School Honors Programs. The purpose of independent study is to pursue advanced study in a curriculum area and not to solve schedule problems.

CREDIT RECOVERY

Any student who fails a course that is required for graduation and/or to progress to the next grade level, may opt to take credit recovery. Credit recovery will be offered to the student for a fee. This fee will vary. Currently, Northern Lehigh High School uses Bulldog Academy, our online program, for credit recovery.

An Underclassman Student (grades 9-11), may only make up a maximum of three (3) failed courses per year through credit recovery.

A Senior Student (grade 12), is afforded the opportunity to take a maximum of three (3) failed courses during the academic year to become eligible for graduation.

SCHEDULE CHANGES

Because of the complexity of a master schedule, class sizes, and staff assignment, schedule changes will be limited and considered on a case by case basis. Students will have 3 days at the beginning of each semester to drop/add a class. However, it needs to be noted that a schedule change will not be considered to alter the period the course is offered or for a change of teacher assignment. Furthermore, a student may be asked to complete a formal drop/add form before the change would go into effect.

HONORS PROGRAMS AND DUAL ENROLLMENT

LEHIGH UNIVERSITY / DESALES UNIVERSITY/ MORAVIAN COLLEGE HIGH SCHOOL SCHOLARS PROGRAM

Senior students in exceptional standing have the opportunity to apply to the Lehigh University, DeSales University, or Moravian College High School Scholar's program. These programs are highly competitive programs where selected students are provided the opportunity to take a college course at their respective campus free of charge with the exception of textbooks, lab fees, and transportation. Applications for these programs become available at varying times so students interested should listen for the morning announcement and inquire in the Guidance Office.

EMERGING HEALTH PROGRAM

The partnership of Lehigh Career & Technical Institute, Lehigh Valley Health Network, Penn State Lehigh Valley and LCCC are pleased to offer this pioneering dual-enrollment program which combines interactive, university-level classroom learning with observation in the health care field. This half-day program is designed for high school seniors interested in entering a health-related career. In addition, the program is designed to prepare students for post-secondary education by offering college-level science courses. Students interested should attend a presentation, given by the program, at Northern Lehigh High School during their junior year. There is an application process and fee involved.

NLHS DUAL ENROLLMENT GUIDELINES

In a partnership with Lehigh Carbon Community College and Northern Lehigh School District offers dual enrollment opportunities for our high school students that allow them to take college courses for high school and college credit. Students taking dual enrollment courses must adhere all guidelines regarding NLSD's Dual Enrollment Program. **For a list of all guidelines, please access Northern Lehigh High School's Guidance page.**

IMPORTANT: Any dual enrollment course, not taught by a Northern Lehigh faculty member, will receive 1.0 credit that can be used toward graduation, but the course(s) will not be calculated in class rank or grade point average. This includes all DeSales, Lehigh, and Moravian honors courses, Penn State courses taken through Emerging Health, and some LCCC dual enrollment courses.

Any dual enrollment course taught by a Northern Lehigh faculty member will receive 1.0 credit that can be used toward graduation and the course will be calculated in class rank and grade point average as an honors level course. Students will receive the quality point for taking these course(s).

****Please refer to the Dual Enrollment pages of this Program of Studies Guide for LCCC courses that will or will not be calculated in class rank and/or grade point average.**

NOTE: It is the responsibility of the student and/or parent/guardian to consult with the college or university that the student may be attending to determine if dual enrollment credit earned will transfer. NLSD will not be held responsible if dual enrollment credits earned are not transferable.

GRADE POINT AVERAGE (GPA)

A student's GPA is computed at the end of each quarter and a cumulative GPA at the end of each semester on a scale ranging from .00 to 4.00. The GPA for each individual course is determined by converting the final numerical average (0% to 100%) to its 4 - Point Equivalency according to the following conversion scale. Students taking honors classes will receive 1 quality point for each course. Examples are below.

Note: Class rank is based upon the grade point average. The number one ranked student will be the student with the highest grade point average and so forth.

<u>Numerical Average</u>	<u>4-Point Scale Equivalent</u>
93 - 100	4.00
90 - 92	3.66
87 - 89	3.33
83 - 86	3.00
80 - 82	2.66
77 - 79	2.33
73 - 76	2.00
70 - 72	1.66
67 - 69	1.33
63 - 66	1.00
60 - 62	0.66
Below 60	0.00

Example #1:

<u>Course</u>	<u>Numerical Average</u>	<u>4-Point Scale Equivalent</u>	<u>Additional Point for honors level course</u>	<u>Attempted Credit</u>	<u>Course Points</u>
Honors English II	97	4.00	1.00	1.00	5.00
Geometry	98	4.00		1.00	4.00
Honors US III	81	2.66	1.00	1.00	3.66
Wellness/Fitness II	92	3.66		1.00	3.66

Student GPA = 16.32 (Total Course Points) / 4.00 (Attempted Credits) = 4.08

Example #2:

<u>Course</u>	<u>Numerical Average</u>	<u>4-Point Scale Equivalent</u>	<u>Additional point for honors classes</u>	<u>Attempted Credit</u>	<u>Course Points</u>
LCCC English 105	97	Not included in GPA		English credit earned toward graduation.	0
LCCC Calculus	85	3.00	1.00	1.00	4.00
World History	81	2.66		1.00	2.66
AP Biology	88	3.33	1.00	1.00	4.33

Student GPA = 10.99 (Total Course Points) / 3 (Attempted Credits) = 3.66

**NORTHERN LEHIGH HIGH SCHOOL
COURSE SELECTIONS
9TH GRADE**

***Students will take a course from each of the following academic areas depending on their path of study.**

NL FULL DAY		NL ½ day & LCTI ½ day	
Course	Credit		Credit
English - Honors English I, Academic English I, English I	1.00	English - Honors English I, Academic English I, English I	1.00
Math - Honors Algebra II, Academic Algebra IA, Algebraic Concepts and Algebra IA (full year) *The 8th grade math teacher will verify the selection.	1.00	Math - Honors Algebra II, Academic Algebra IA, Algebraic Concepts and Algebra IA (full year)	1.00
Science - Honors Integrated Science, Academic Integrated Science, Integrated Science	1.00	Science - Honors Integrated Science, Academic Integrated Science, Integrated Science	1.00
Social Studies - Honors US History II, US History II	1.00	* Computer Technology - Computer Applications, CAD I, Web Design, Video Production	1.00
Computer Technology - Computer Applications, CAD I, Web Design, Video Production	1.00	LCTI - LCTI Lab	4.00
Wellness/Fitness - Wellness/Fitness I	1.00		
Electives - These 2 credits can come from Art, Family Consumer Science, Foreign Language, or any other none required core course. *Please note: Spanish I is recommended for college bound students	2.00	*Note: If students are scheduled for Algebraic Concepts they will take Alg. IA in lieu of a technology course. Two math credits will be awarded if a student takes both of these math courses.	
Total Credits 9th Grade	8.00		8.00

Students should consider taking electives that are related to their potential career interest. For more information regarding career interests and appropriate course selections please refer to www.careercruising.com or see your School Counselor. Please use the following information to sign in to Career Cruising:

Username: nlhs Password: bulldogs



**NORTHERN LEHIGH HIGH SCHOOL
COURSE SELECTIONS
10TH GRADE**

***Students will take a course from each of the following academic areas depending on their path of study.**

NL FULL DAY		NL ½ DAY + LCTI ½ DAY	
Course	Credit	Course	Credit
English – Honors English II, Academic English II, English II	1.00	English – Honors English II, Academic English II, English II	1.00
Math - Algebra IB or Academic Algebra IB Note: College-bound students should also take a Geometry course during this year (i.e. Honors Geometry or Academic Geometry)	1.00	Math - Algebra IB or Academic Algebra IB	1.00
Science – Ecology & Cell Processes (Semester 1), Biology (Semester 2) *Academic and honors levels of these courses are also available.	2.00	Science – Ecology & Cell Processes (Semester 1), Biology (Semester 2) *Academic and honors level of these courses are also available.	2.00
Social Studies - Honors US History III, US History III, or Honors Civics: Government & Economics	1.00	Social Studies – American Studies II @ LCTI	1.00
Wellness/Fitness – Wellness/Fitness II	1.00	LCTI – LCTI Lab	3.00
Electives: These 2 credits can come from Art, Family Consumer Science, Foreign Language, or any other none required core course *Please note: Spanish II is recommended for college bound students	2.00		
Total Credits 10th Grade	8.00	Total Credits 10th Grade	8.00

Students should consider taking electives that are related to their potential career interest. For more information regarding career interests and appropriate course selections please refer to www.careercruising.com or see your School Counselor. Please use the following information to sign in to Career Cruising:

Username: nlhs
Password: bulldogs



**NORTHERN LEHIGH HIGH SCHOOL
COURSE SELECTIONS
11TH GRADE**

*Students will take a course from each of the following academic areas depending on their path of study.

NL FULL DAY		NL ½ DAY + LCTI ½ DAY	
Course	Credit	Course	Credit
English – Honors Eng III, Academic English III, English III	1.00	English – Honors Eng III, Academic English III, English III	1.00
Math - Honors Trigonometry, Academic AlgebraII/Trigonometry, Algebra II/Trigonometry *Geometry will also be taken if not taken in 10th grade	1.00	Math – Honors Geometry, Academic Geometry, Geometry	1.00
Science - Please refer to course selection sheet for options *Although students will fulfill the 3 credit requirement by 10th grade, it is highly recommended for college-bound students that they take four years of a science, with at least one chemistry course taken in their junior year.	1.00	Social Studies – Civics: Government& Economics (full year)	1.00
Social Studies – Honors Civics: Government & Economics or Civics: Government & Economics, AP US History	1.00	Wellness/Fitness - Will be taken at LCTI	1.00
Wellness/ Fitness – Wellness/Fitness III	1.00	LCTI – LCTI Lab	3.00
Computer Technology - 21 st Century Skills (option)	1.00		
Electives – These 2 courses can come from Art, Family Consumer Science, Foreign Language, or any other none required core course. *Spanish III may be recommended depending on what college/university student wants to apply.	2.00	Total Credits 11th Grade	8.00
Total Credits 11th Grade	8.00		

Students should consider taking electives that are related to their potential career interest. For more information regarding career interests and appropriate course selections please refer to www.careercruising.com or see your School Counselor. Please use the following information to sign in to Career Cruising:

Username: nlhs
Password: bulldogs



**NORTHERN LEHIGH HIGH SCHOOL
COURSE SELECTIONS
12TH GRADE**

NL FULL DAY		NL ½ DAY + LCTI ½ DAY	
Course	Credit	Course	Credit
English –AP English, LCCC College English 105, Academic English IV, English IV	1.00	English – AP English, LCCC College English 105, Academic English IV, English IV	1.00
Math – AP Calculus, LCCC Calculus & Analytic Geometry I, Calculus, Intro. to Calculus, Honors Trigonometry, Academic Algebra II/Trigonometry, Algebra II/Trigonometry or Probability & Statistics	1.00	Math – AP Calculus, LCCC Calculus & Analytic Geometry I, Calculus, Intro. to Calculus, Honors Trigonometry, Academic Algebra II/Trigonometry, Algebra II/Trigonometry or Probability & Statistics	1.00
Social Studies - World History, Honors World History, AP European History (if not previously taken)	1.00	Social Studies – Honors World History, World History, Honors US History III, US History III, AP European History, AP US History	1.00
Science: Although students fulfilled their 3 credit requirement in 10 th grade, it is highly recommended for college-bound students that they take four years of a science, with at least one chemistry course and one physics course.		Computer Technology - 21 st Century Skills	1.00
Computer Technology - 21 st Century Skills (if not previously taken)		LCTI – LCTI Lab	4.00
Electives – These 5 or 6 credits can come from any other none required course.	5.00		
		Total Credits 12th Grade	8.00
Total Credits 12th Grade	8.00		

Students should consider taking electives that are related to their potential career interest. For more information regarding career interests and appropriate course selections please refer to www.careercruising.com or see your School Counselor. Please use the following information to sign in to Career Cruising:

Username: nlhs
Password: bulldogs





Lehigh Career & Technical Institute

“We have a career pathway for you!” **LEHIGH CAREER & TECHNICAL INSTITUTE** will teach the skills and knowledge necessary to be ready to start a career. With over forty career and technical course choices available for students, the opportunity to find a career pathway and be successful is a huge advantage for high school students.

Our career and technical programs are taught by instructors who have spent years training in their field of expertise to provide you with a state-of-the-art education. Students have the opportunity to participate in job shadowing, internships, and co-op experiences (job placement) as well as taking college courses while a student at LCTI. Take a few moments and read about all the exciting choices and enrollment options available to you at Lehigh Career & Technical Institute.

Enrollment Options for NL Students

Half-day enrollment: Students in **ninth through twelfth grade** may choose the half-day enrollment option. This half-day option provides students with career & technical education at LCTI and the required academics at their respective school districts. Students are encouraged to take high-level course work at the sending district which will provide the academic background necessary to be successful in today's highly technical careers.

Flex time enrollment: Another option that may suit students' individual needs is the flex-day program. The flex program is designed to provide students with technical coursework on a limited schedule. Students may choose to come to LCTI for one or more periods per day depending upon their needs. Students may attend one or both semesters and may attend for multiple years. Many students use this technical educational training as a jump start to a technical degree in a four-year institution.

Both the half-day and flex-day options may be chosen during the regular course registration process.

Why Enroll?

Why enroll? Lehigh Career & Technical Institute clearly has the potential to offer students many career opportunities in a schedule that will serve individual needs. Students may decide to pursue career & technical education starting with their freshman year or may start as a sophomore, junior, and even a senior. With the rising cost of post-secondary education, students need to make critical career decisions that result in a postsecondary plan that has a likelihood of being successful. The more than forty career & technical offerings made available to students give them the skills and education that is necessary to make sound career decisions and become productive citizens in today's global economy.

Other Program Options

Service Occupations :Six curricular areas are offered in this program: Building Trades Maintenance, Custodial Maintenance, Grounds Maintenance and Landscaping, Food Service, Material Handling and Hospitality Services. Each area is designed to help the student transition from basic entry-level skill development to more advanced technical training or directly into the workforce. A skills assessment will be done to determine the



readiness and interest of the student. Results of the assessment will be provided to the student's IEP team.

Career Academy Program: Provides the nine participating school districts of Lehigh County an alternative for at risk students to receive a high school diploma and work toward a career goal in their program of choice. Selected technical programs at LCTI are available to CAP students. They receive academic instruction in English, mathematics, social studies, science, health/wellness, physical education and enrichment coursework. A week of academic sessions rotates in the schedule with two weeks of technical education. Programs include: Auto Specialization Technology, Building Trades Maintenance, Carpentry, Early Care & Education of Young Children, Electrical Construction, Home Health Services and Office Systems Technology.

Diversified Career Opportunities: LCTI Technical Institute offers a Diversified Career Occupations (DCO) Program to qualified high school students interest in earning credits toward graduation while gaining valuable workplace experience. The DCO program requires students to continue pursuing their academic credits, but allows them to work half days in entry-level positions in occupational areas not offered at LCTI or county high schools.

Students learn to work with a work-site mentor who will share his or her expertise and provide training through an Occupational Training Plan. The employer is responsible to evaluate the student's performance on the job and to track attendance in the workplace.

DCO can benefit a variety of students, including those who have earned sufficient credits for graduation and may have free periods in their schedule. Work-based experience is a valuable tool to prepare for both full time employment and for post-secondary education. DCO is also beneficial to local employers, providing an avenue to recruit new workers who will be prepared to accept the challenges of today's workforce.

School-To-Career Opportunities:

- **Job Shadow** Students accompany employees through part of a typical day and learn about the varied aspects of their job and skills required to work in the field.
- **Internship** Students in grades ten and eleven participate in a business match program that allows them to spend a period of time working in their field of study.
- **Cooperative Education:** Students in grade twelve participate in a business match program that allows them to spend a portion of their senior year working in their field of study. Students pursue their academic coursework during the A.M. session and report to their place of employment for the P.M. session.

DUAL ENROLLMENT PROGRAM

DID YOU KNOW YOU CAN TAKE COLLEGE CLASSES WHILE ATTENDING LCTI?

Opportunities to earn college credit while still in high school

You won't have to break the bank to attend college. Each credit course at LCCC costs about half the regular tuition rate and less than fourth of the cost for a comparable credit course at any one of Pennsylvania's State universities.

What is a placement test? A placement test is given to students who are interested in taking college courses at LCCC. Students must obtain a minimum score to be eligible for college classes. More information regarding placement testing can be found on lccc.edu



Dual Enrollment requirements? Students must be Level II or higher in their lab programs and maintain a minimum of a “C” average to participate in Dual Enrollment. Students must also have good attendance and no discipline referrals. The tuition and associated costs for dual enrollment courses must be paid by the student/parent.

Want to see if Dual Enrollment is right for you? Our free, one credit course “**The College Experience**” is an opportunity to explore dual enrollment. In “**The College Experience**” you’ll learn what to expect if you go to college, as well as what will be expected of you. Upon completion of the course, students have the option of taking a placement test to determine eligibility for future classes at a reduced rate paid by the student/parent.

Equal Opportunity Statement:

Lehigh Career & Technical Institute has a policy not to discriminate on the basis of age, sex, handicap, national origin, color or race in its programs or employment as required by Title IX, Section 504 and Title VI, Age Discrimination Act, and Boy Scouts Act. Inquiries about this policy should be directed to Lehigh Career & Technical Institute's Compliance Officer at (610) 799-1357. The information contained in this booklet is subject to change. Questions, please call Student Services at 610-799-1358.



2017 - 2018

COURSE DESCRIPTIONS



NONBINDING NOTE

Some described courses may not be offered in a given year due to matters such as low enrollment, insufficient staffing, or budgetary constraints.



ART

Courses Offered (listed by level of difficulty)

Cultures and Crafts: Methods and Materials

Theatre Arts and Design

Fine Arts I

Painting I

Visual Communications I (previously Graphic Arts I)

Fine Arts II

Visual Communications II (previously Graphic Arts II)

Painting II

Painting III (Independent Study – Seniors Only)

LCCC Painting I

CULTURES AND CRAFTS: METHODS AND MATERIALS (15063) - Prerequisite: None

Meets daily – 1 Credit

Are you “Crafty” and like to make things with your hands? This course is designed as a solid “hands-on” art class to encourage students to explore and create craft work from many cultures and historical periods. Students shall become craftsmen in learning different crafts from various world cultures and using their talents to create wonderful works of art. It is an exciting course which recognizes crafts as serving functional and non-functional needs to society and offers an informal acquaintance with exemplary works of art. Some craft forms covered in this course may include: Design; Ceramics/clay (on and off the potter’s wheel); Paper Mache; Sculpture; Jewelry; Glass; Metal smith; Woodworking; Stained glass; Weaving; Fiber Arts; Fabric Design; and Seasonal Crafts.

THEATRE ARTS AND DESIGN (15071) - Prerequisite: None

Meets daily – 1 Credit

The “hands-on” theatre arts and design course introduces students to the performance and production of the theatre as an art form. Both “On Stage” and “Behind the Scenes” processes will be developed. After the creation of simple sets and props students will team together to create simple scenes. Students will explore the theatre as a means of expression through study of theatre history as well as contemporary theatre arts. Students will also explore the development of stage design including sets, props, and lighting design. Students will explore the safe use of theatrical equipment and its’ importance to the overall effectiveness of a production. Through studying theatre as an expression of both history and culture, students will explore the way in which theatre affects and is affected by its societal context. This course is designed in connection with the PA State Standards for the Arts in theatre education. Some units/projects covered in this course may include: Set and Prop Sketching/Design , Costume and Make-up Design, Traditional and Contemporary Performance (Blue Man Group, Mime, etc.), One Act Plays, Play/Script Analysis, Voice and Movement, Improvisation, Theatrical Equipment, Stage Direction and Management.



FINE ARTS I (15064) - Prerequisite: None

Meets daily – 1 Credit

Interested in taking an Art course where you are GUARANTEED you will learn to draw, paint, or sculpt? This is the course for you! Students shall explore the basic foundations of Fine Arts in this course to include drawing, painting, sculpture, and graphics. It is an exciting fundamentals course, which guides the beginner or student with an art interest into successfully creating works of art. Using music, multi-sensory aids, and various art media, the student shall learn processes used in designing an expression, which demonstrates skill, creativity, and dedication. Students are guaranteed they will gain more confidence and create solid art works of which they are proud! **Some units covered in this course include: Pen/ink and pencils (graphite); Clay; Charcoals; Pastels; Foam Sculptures; Printmaking; Tempera; Plaster; Oil/Acrylic paint; Cartooning; Watercolor; Sign making/calligraphy; and Mixed media.**

PAINTING I (15066)- Prerequisite: None

Meets daily – 1 Credit

Painting! Painting! ...and more painting! After reviewing simple drawing, color, and design concepts, students shall spend class time creating paintings on paper, canvas board, raw canvas, and found objects. This is a stress-free and beginner's "how-to" course designed for the student interested in trying something new, expanding on a talent, or starting a hobby. Students will experiment and create artwork using many different paints, brushes, and tools and learn specific techniques with reference to Old and New Masters of Art. After developing painting skills, the student shall be encouraged to express his/her own style in further paintings, both in and outdoors.

Some units covered in this course include: Color theory and harmony; Oil paints; Watercolor; Mixed media; Tempera; Brushes, palette knives; and Acrylic paints.

VISUAL COMMUNICATIONS I (15069)- Prerequisite: None

Meets daily – 1 Credit

Do you have a graphic style? Interested in Pop Culture or Op art? In this course students will learn traditional and contemporary means of mass producing their artwork. Students will develop art artworks using manual and mechanical processes, printing presses, text, computer art programs, Microsoft Publisher, and Adobe Creative Suite. Through the guided exploration of the history of the four basic lettering styles and their variations, students will be introduced to mechanical drawing and create art forms using these styles. The graphic arts will be emphasized throughout the exploration of verbal and non-verbal expressions of art. Lessons shall include various writing instruments, paints, ink and airbrushing, while students learn about advertising, illustration, and printing on many grades of papers (including handmade), fabric/t-shirts, and photography. It is an active course which is designed for students with an interest in learning to develop means of mass producing their artwork while studying calligraphy, printing processes, advertising, computer-generated art, photography, and their functions in today's society.

Some units covered in this course may include: Graphics- Fundamentals of printing processes including, Silk Screening; Creating Stencils/Airbrushing; Embossing; Engraving/Intaglio Prints; Block Prints; Mono-typing; and other printing techniques.

Desktop/computer Imagery- Basic design principles and how they relate to visual communications including, Typography; Computer Generated Graphics; Advertising/Media Literacy; Mechanical Drawing; Adobe Creative Suite, etc. **Photography-** Fundamentals of photographic technologies including, digital and manual photography, Digital Photography; Stop-Motion Animation; Pinhole Cameras; and Basic Darkroom Photography.



FINE ARTS II (15065)- Prerequisite: 75% or higher in Fine Arts I

Meets daily – 1 Credit

Using the skills and knowledge gained from the Fine Arts I course, students will be challenged in Fine Arts II by “polishing their talents” on more advanced projects and processes. Further exploration in drawing, painting, sculpture, and graphics includes using various lights, more expanded and in-depth Art History research, design formats, and combining and using more challenging art media. Each marking period will offer students an opportunity to independently develop their own styles of art while using the Old and New Art Masters as their mentors. This course is for experienced art students who enjoy the fine arts and wants to continue developing their skills in art.

Some units covered in this course include: Pen/ink and pencils; Clay; Charcoals; Plaster; Pastels; Embossing; Acrylic paints; Printmaking; Oil paints; Bas relief; Stone carving; Metal smith; Wire Sculptures; and Casting.

VISUAL COMMUNICATIONS II (15070)– Prerequisite: 75% or higher in Visual Communications I.

Meets daily – 1 Credit

Students whom have successfully completed Visual Communications I may continue their technical, calligraphy, printmaking, computer-art and photography skills in this advanced computer generated art class! By further mastering prior techniques developed in Visual Communications I, students shall create more independent advanced art work in this course alongside of other experienced student artists. Advanced airbrushing, photo emulsion silk-screening, mechanical drawings, and advertising design shall be explored and created with reference to Old and New World Masters. Advanced photography skills to include lighting, enlarging, double exposures, and various darkroom techniques will be studied. Students will be further challenged with Adobe Creative Suite in creating computer art graphics. Designing an art form which represents a planned, skillful expression to be reproduced both on and off the press, students shall further explore the advertising world and its relation to today’s society.

Some units covered in this may course include: Acid Etching/Intaglio; Photo Serigraphs; Collagraphs; Glass Etching; Airbrushing; Computer Graphics; Advanced Calligraphy; Advertising Design; Product/Package Design; 35 mm/Digital Photography; Advanced Darkroom Practices; Mechanical Drawings; and Architectural Studies.

PAINTING II (15067) - Prerequisite: 75% or higher in Painting I(This course can also be taken for college credit. See LCCC Painting I below)

Meets daily – 1 Credit

So, you’ve got the skills, but what’s next? This course shall be offered to painters who have completed Painting I, and are interested in continuing to explore new techniques while further developing their own style of expression. Combining knowledge, skills, experiences and positive attitude gained in Painting I class, the art student shall create authentic art forms which are representative of integrity, innovation, and insight. Students shall use prior skills and more familiar principles of design in advancing the content of their paintings. Referencing Old & New World Masters, students shall further explore painting with others who have similar skills or interests in the art both indoors and outside the studio classroom.

Some units covered in this course may include: Acrylic paints; Mixed media; Oil paints; Airbrushing; Painting on paper, raw canvas, canvas boards, and found objects.



PAINTING III – An Independent Study (15068) - Prerequisite: 80% or higher in Painting II and application submitted for approval. This course is available to seniors only.

Meets Daily – 1 Credit

This independent study in painting course is specially designed between the student and the instructor to meet the student's specific needs! This is a self-directed curriculum under the watchful eye of the instructor. The student sets goals while creating products that reflect personal talent and interests. Each lesson shall reflect the results of the "planning sessions" with the instructor and the student's thumbnail sketches. Lessons will include the elements and principles of design, rubrics, and an agreed upon deadline.

This course is for the student who is highly self-motivated and advanced painters who may be considering art school or continuing painting as a serious hobby. Students are encouraged to gather necessary materials to support their own successes. It is a course for the mature student who enjoys painting, is highly self-motivated and talented.

Some units covered in this course may include: Acrylic Paints; Oil Paints; Development of Individual Style; Portfolio design for Art School admissions; Landscapes; Portraits; Mixed Media; and Still Life

LCCC PAINTING I (15075) - This Painting II course is available for college credit. Prerequisite: Earned grade average of 75% or higher in Northern Lehigh's Painting I and/or teacher recommendation.

Meets Daily- 1 High School Credit, 3 LCCC credits

This course includes basic instruction in form, color, value, composition, and historical material. The media will include oil and acrylic and may include watercolors. Students are encouraged to create works driven by personal expression.



BUSINESS/COMPUTERS

Courses Offered (listed by level of difficulty)

Computer Applications

21st Century Skills (**Graduation Requirement**)

Accounting I

Accounting II

Advanced Computer Applications

COMPUTER APPLICATIONS (15370) - Prerequisite: None

Meets daily – 1 Credit

This course is uniquely designed for students preparing for success in high school, college, and beyond through efficient and proficient use of computer software. Students will experience word processing, desktop publishing, and presentations. This course focuses on database and spreadsheet computer application software in business and daily life. The ability of spreadsheets to properly describe numeric information, show trends, and assist in making future decisions is a key to financial success. Students will analyze and construct databases that can be sorted and queried in multiple ways.

Some units covered in this course include: integration and presentation of spreadsheet and database information. Advanced levels of online research, simulations, and Web 2.0 Tools are current elements that flow naturally into this dynamic, hands-on course.

21ST CENTURY SKILLS (15371) - Prerequisite: Juniors and Seniors (**Graduation Requirement**)

Meets Daily - 1 Credit

21st Century Technology Skills is a course designed to benefit all students. This course discusses important topics for everyday living in our challenging and dynamic society. Students will learn more about their role as a consumer, a worker, and a productive citizen through the use of available technology, such as Web 2.0 tools and a number of web-based applications. With the use of technology, hot topics in Digital Citizenship will be discussed throughout the semester. Other course topics include personal money management strategies, such as how to properly budget and save, how to establish and maintain a good credit standing and how to prepare personal income taxes. Students will explore careers and create a digital Career Portfolio including a resume, letters of application, and letters of recommendation from personal references. They will complete a general job application and discuss interviewing. This career unit will also include guest speakers for job interviews and current job search trends. This course will also explore the areas of business ownership, financial management and marketing. In covering these topics, students will be presented with real life experiences that will best prepare them to grasp new technological trends for success in high school, college and beyond.



ACCOUNTING I (15636) – Prerequisite: Sophomore, Junior, or Senior students.

Meets daily – 1 Credit

This beginning accounting course provides a basic knowledge of accounting principles and techniques that will enable the individual to obtain employment in an entry level accounting or bookkeeping position. It also provides for a solid foundation either for those wishing to take the advanced Accounting II course or for those who will further their education in accounting at a business school or college. The appropriate accounting techniques stressing both these areas are emphasized in the Accounting I course. An online Accounting workbook is featured throughout this course. This allows the student experience with online course formats. Because of its wide appeal, the Accounting I course is available to any student.

Some units covered in this course include: Accounting careers and concepts; Starting an accounting system; The effect of business transactions on a business; Analyzing transactions into debit and credit parts; Journalizing business transactions; Posting; Understanding and recording financial statements; Working with six and eight column work sheets; Completing an accounting cycle for a partnership using a combination journal; and Understanding various kinds of journals and the use of ledgers.

ACCOUNTING II (15637) - Prerequisite: Accounting I

Meets daily – 1 Credit

This advanced accounting course provides a basic knowledge of accounting principles and techniques with special emphasis on the accountant in a corporation. This course will further enhance the opportunities available to the student who seeks an entry level accounting or bookkeeping position. It also prepares the students who wish to further their education in accounting at a business school or college. The appropriate accounting techniques, stressing both these areas, are emphasized. This course will be taught entirely on a computer to familiarize the student with modern accounting applications in today's offices.

Some units covered in this course include: Recording transactions using special journals; payroll records; payroll accounts, taxes, and reports; federal income tax forms; accounting for uncollectible accounts; accounting for plan assets and depreciation; accounting for notes and interest; a voucher system; end of fiscal period work for a corporation; a petty cash and inventory system

ADVANCED COMPUTER APPLICATIONS (15372) Prerequisite: Computer Applications recommended, but not required

Meets daily – 1 Credit

Advanced Computer Applications is designed to complete the computer competency skills taught in the Computer Applications class. The course is designed to give the student a thorough and comprehensive understanding of an integrated software package such as Office 2007. Students will learn advance, Word, Excel, Access, Excel and Access Integration, Power Point Presentation and Use of the Internet. The course will provide superior computer competency skills which will allow the student to make full use of an integrated software package. In addition, students will get a brief opportunity to explore programming with Alice, editing with image editing software, and work with Google Docs. This is a practical and necessary technology course that is recommended for 10th – 12th grade students.



ENGLISH

Core Courses Offered

9th Grade

English I
Academic English I
Honors English I

11th Grade

English III
Academic English III
Honors English III

10th Grade

English II
Academic English II
Honors English II

12th Grade

English IV
Academic English IV
LCCC College English 105
Advanced Placement (AP) English

Electives Offered

Creative Writing
Public Speaking
SAT Prep English, Reading, Writing

ENGLISH I (15113) Prerequisite: Successful completion of English 8

ACADEMIC ENGLISH I (15116):

Meets daily – 1 Credit

English I is designed to prepare students for academic success in grades 10, 11, and 12. English I will develop literature and expression skills. Students will read, analyze, and interpret literature across many genres. Students will demonstrate proficiency in written and spoken expression.

Some units covered in this course include: short stories, novels, mythology, the writing process, and vocabulary development.

HONORS ENGLISH I (15118) Prerequisite: Completion of Honors English Application, recommendation of Grade 8 English teacher, and a grade of 90% or higher in Grade 8 English.

Meets daily – 1 Credit

Honors English I is an accelerated version of Academic English I. Reading skills, vocabulary development, and the writing process will be stressed. Reading & discussion of various literary genres will be a major portion of the course. The research paper will be introduced and will be required. Grammar and usage will be covered as the need arises. Written practice for the KEYSTONE will be addressed. Shakespearean drama will be introduced. Summer reading is required.

Some units covered include the following: Short stories; KEYSTONE Preparation; the Writing process; Drama; Reading skills; The Research paper; and the Novel.



ENGLISH II (15123) – Prerequisite: Successful completion of English I.
ACADEMIC ENGLISH II (15126)

Meets daily – 1 Credit

English II is designed to prepare students for academic success in grades 11 and 12. English II will develop literature and expression skills. Students will read, analyze, and interpret literature across many genres. Students will demonstrate proficiency in written and spoken expression. Some units covered in this course include: short stories, novels, drama, the writing process, and vocabulary development.

HONORS ENGLISH II (15128) – Prerequisite: Completion of Honors Application and a grade of 90% or higher in Academic English I or 80% or higher in Honors English I.

Meets daily – 1 Credit

An accelerated version of academic English I, Honors English II introduces the literary genres of the short story, novel, drama, and poetry. Vocabulary development is stressed along with the writing process and common methods of development. A culmination of these writing skills will be evident in the research paper. Independent reading, research, and a class play are required. Summer reading is required.

Some units covered in this course include: Independent Readings - the Novel; The Short Story; Drama; Poetry; Arthurian Romance; The Writing Process; and The Research Paper.

ENGLISH III (15132) - Prerequisite: Successful completion of English II.
ACADEMIC ENGLISH III (15136):

Meets daily – 1 Credit

Academic English III is a college preparatory course for students who anticipate formal instruction beyond high school. Emphasis is placed on an intensive study of literature and writing with a connection to American history. Students will also continue their study of Shakespearean drama and will read and analyze selected novels, short stories, poetry, and essays. Vocabulary will be studied in preparation for the SAT and for better understanding of the assigned literature. Writing and reading exercises will prepare students for the KEYSTONE examination. In addition, process writing, with emphasis on the literary theme and the five-paragraph essay, will prepare students for the skills necessary to achieve success in future courses and, eventually, college.

Some units covered in this course include: The American Drama; the American Novel; Comprehensive study of American Literature through selected short stories, poems, and essays; SAT Preparation; KEYSTONE Preparation; The Writing Process and Composition; Shakespearean Drama.



HONORS ENGLISH III (15138) -Prerequisite: Completion of Honors Application and a grade of 90% or better in Academic English II, 80% in Honors English II.

Meets daily – 1 Credit

An accelerated course, Honors English III entails critical analysis of American literature and authors. Students will trace the history of American literature and explore every literary genre and many literary devices. Early in the course, students will write several paragraphs, impromptu and planned, and will eventually work toward a multi-paragraph paper (theme). A culmination of student writing skills will be evident in the research paper. Once students are accepted in Honors English, they will be given a summer reading list of at least five major literary works in which they will be evaluated utilizing differentiated instruction.

Some units covered in this course include: Voices for Freedom; Arthur Miller’s The Crucible and Death of a Salesman; William Shakespeare’s Julius Caesar and The Tempest Theme writing; Defining an American; Oral expression; Paragraph writing; KEYSTONE Reading/Writing Preparation; The Human Spirit and the Natural World; Forging New Frontiers; Study Island; Research paper; and Vocabulary Enrichment.

ENGLISH IV (15143) - Prerequisite: Successful completion of English III.

ACADEMIC ENGLISH IV (15146): Prerequisite:

Meets daily – 1 Credit

In twelfth grade, students move towards academic independence and college-and-career readiness. Students grapple with demanding texts by integrating previously learned skills to analyze and evaluate the writer’s premise, purpose, and argument in both informational and literary text. Students conduct sustained research and engage in sharp distinctive writing while making informed decisions, solving problems, evaluating the credibility and accuracy of sources, and noting discrepancies among the resources. Using previously learned competencies, students master skills such as asking their own questions, solving their own problems, and leading their own class discussions. Finally, students continue to develop the skills in reading, writing, speaking, and listening to master purposeful and independent expression.

ADVANCED PLACEMENT (AP) ENGLISH LITERATURE AND COMPOSITION (15149) –

Prerequisite: Completion of AP Application and a grade of B- or better in Academic English III or Honors English III.

Meets daily – 1 Credit

The Advance Placement Literature and writing course follows the guidelines set forth by the AP English Course Description. The literary genres of prose fiction, drama, and poetry from the sixteenth century to contemporary times will be studied within the structure of this course. Readings and analysis will occur as group discussions and as homework assignments. Written and oral interpretation will also analyze how social and historical values influenced literary forms and language. An exam comprised of both an objective and an essay section will follow each literature unit. A variety of writing modes will include writing to understand, to explain, and to evaluate. Assignments calling for complex analysis involving structure, style, and themes will culminate in a research paper on a literary topic. Other writings will include expository essays, extended analysis, timed in class responses, and a class journal that will allow for informal exploratory activities. Opportunities to revise and rewrite after receiving instructional feedback from your teacher and/or peer editor will be afforded. These revisions will work to improve sentence structure, to achieve coherence, and to maintain a consistent voice. All formal essays will be evaluated on a nine point AP grading scale. Weekly vocabulary lessons will encourage the use of a rich, varied, and exact vocabulary and will raise an awareness of the resources of language.



LCCC COLLEGE ENGLISH 105 (15150) –Please refer to Dual Enrollment Section of Program of Studies on page 53.

CREATIVE WRITING (15147) – Prerequisite: Completion of Creative Writing Application; sophomore, junior, or senior standing; an 80% or higher English grade.

Meets daily – 1 Credit

This course provides an environment which fosters creativity and allows students to stretch their imaginations through writing. Students study professionally written work which acts as a model for student projects including: poetry, personal memoirs, interview profiles, short stories, art-inspired poetry, etc. In the spirit of creating a community of writers, students are encouraged to publish and orally share their work in the school environment. Students are also required to submit a project to a professional publication for publication. A daily journal is a major requirement for this course as well as reading aloud all final writing samples for peer evaluation.

Some units covered in this course include: Personal Writing; Expressive Writing; Descriptive Writing; Narrative Writing; Column Writing; Critical Review Writing; Literary Writing; Poetry Writing; Persuasive Writing; Memoir Writing; Writing About Literature; and Writing for Publication.

PUBLIC SPEAKING (15168) - Prerequisite: Sophomores, juniors, or seniors only.

Meets daily – 1 Credit

Students enrolled in this course will study and apply effective methods of both verbal and nonverbal communication. Different types of speeches and characteristics of effective speakers will be emphasized through use of both original and professional works. Students will give approximately 10 – 12 speeches such as: speech to inform, speech to persuade, speech of presentation, demonstration speech, personal experience speech, speech to entertain, pet peeve, etc. Students are required to maintain a Reflection Log which will be evaluated twice during the semester.

Some units covered in this course include: Perception of self and other; Establishing a Communication Foundation; Interpersonal Communication; Principles Of Speech Communication; Informative Speaking; Persuasive Speaking; Demonstration Speaking; Speaking to Entertain; Speaking to Present; and Interviewing for Information.

SAT PREP ENGLISH, READING, WRITING (15098): Prerequisite: Juniors

Meets every other day - .5 Credit

This course is aimed at high school juniors who are planning on taking the SAT exam. Students will learn about the structure and scoring of the SAT exam. Practice SAT exams will be frequently used to gain familiarity with both multiple choice and student-produced response questions. Critical English material needed for the exam will be reviewed by instructors.



FAMILY AND CONSUMER SCIENCE

Courses Offered (listed by level of difficulty)

Foods

Child Development

Singles Life

Food Science

Child Development -The Early Years

LCCC Fundamentals of Early Childhood Education (2018-2019 school year)

FOODS (15024) - Prerequisite: None.

Meets daily – 1 Credit

This course is designed to entice all students, boys and girls alike. It is packed with new experiences and information. Study will begin with the basics and progress to the advanced. Nutrition education will have a special emphasis and the students will do lab related to the individual nutrients. Canning homemade jams and jellies and tomatoes that will then be used on homemade bread and pizza/stromboli are some of the new and unique labs the students will do. In addition they will make various quick breads, dessert and meat pies, butter and foam cakes.

Some units covered in this course include: Nutrition; Foreign foods; Food Pyramid; Food budgeting; Cooking terms; Entertaining; Cooking techniques; Baking; Kitchen measurements; Safety principles; and Meal preparation.

CHILD DEVELOPMENT (15025) - Prerequisite: None.

Meets daily – 1 Credit

This course is designed for the student who wants to learn about child development and child care for career opportunities or just for their own personal use. The course will address such issues as prenatal care, stages of labor, physical development in infants, toddlers and preschoolers, and discipline of children to name a few. The more you know about a subject area the more comfortable you are; this also applies to being with and caring for children. This course would be a benefit to any student entering college in the fields of education, nursing, early childhood education, and social services. **Some units covered in this course include: Preparing for parenthood; Prenatal development; Childbirth; Physical development; Emotional development; Social development; Intellectual development; Health and safety; and Child care teaching.**

SINGLES LIFE (15022) - Prerequisite: None.

Meets daily – 1 Credit

Moving out on your own or are you college bound after graduation? If so, this course is for you! This course is designed to help the young adults adapt to those new and difficult situations that will arise when out in life and on their own. Job interviewing, the decision-making process, the ABC's of laundry, how to make nutritious, easy meals and snacks, and tips on renting/buying an apartment or house, are only a few of the topics to be discussed.

Some units covered in this course include: Job seeking skills; Banking principles; Decision making; Relationships; Basic cooking; Time management; Basic sewing; Budgeting; Home buying and renting; and Housekeeping skills.



FOOD SCIENCE (15023) - Prerequisite: 75% or better in Foods.

Meets daily – 1 Credit

Are you interested in becoming a food science researcher, a dietitian, or pastry chef? How about owning your own catering business or do you just want to know more about the principles of cooking? This foods science course is designed for students who wish to study advanced nutrition and food science in college or trade school. Monthly speakers, college representatives and local chefs will be a major feature of the course. Cooking more advanced dishes and more emphasize to detail and presentation of food will be studied.

Some units covered in this course include: Advanced Nutrition and Science; Entertaining; Career Exploration; Meat Cookery; Fruit and Vegetable Cookery; Milk Cookery; Breads; Safety; Cooking Techniques; and Microwave Cooking.

CHILD DEVELOPMENT THE EARLY YEARS (15026) – Prerequisite: 80% or better in Child Development.

***This course will be offered during the 2017-2018 school year.**

Meets daily – 1 Credit

Students will continue to study about child development and child care career opportunities. The course will review and expand on the topics of physical, emotional, social, and intellectual development of preschoolers, elementary and early teenagers. This course is ideal for students that are thinking of going into any area of education, nursing, or social services. Trips to the elementary schools and/or nursery schools will be intricate part of the course. **Some units covered in this course include: Discipline; Emotional development; Physical development; Social development; Intellectual development; Toy selection and evaluation; Disabilities and evaluation; and Health and safety.**

LCCC FUNDAMENTALS OF EARLY CHILDHOOD EDUCATION (15030) - Please refer to the Dual Enrollment section of the Program of Studies on page 53. ***This course will be offered during the 2018-2019 school year.**



FOREIGN LANGUAGE

Courses Offered

Spanish I
Spanish II
Spanish III (New)
Honors Spanish IV (NEW)

SPANISH I (15516) - Prerequisite: None.

Meets daily – 1 Credit

The emphasis in this course is directed toward the four basic language skills: speaking, listening, reading, and writing. This exciting and useful foreign language is spoken extensively in the classroom to develop skills of comprehension and conversation. These skills are reinforced through conversational activities and cued writing. An emphasis on basic understanding and communication is stressed. Basic grammar and vocabulary are emphasized in the course. Students are expected to complete projects that integrate the use of technology to reinforce writing and vocabulary skills. **Some units covered in this course include: greetings, school, describing people & things, family, weather, present tense, expressing likes/dislikes, asking/answering questions, calendar, time**

SPANISH II (15526) - Prerequisite: Successful completion of Spanish I.

Meets daily – 1 Credit

A basic review unit at the beginning is used to review first level work (Spanish I). The four areas stressed in level one are also stressed in level two: speaking, listening, reading, and writing with a grammar emphasis on preterit tense. Continuing oral instruction and comprehension are developed through the use of interactive group/paired activities and the integration of computer technology. Writing/reading skills are further developed. Evaluation is done by oral and written testing. Spanish II provides the background and skills development necessary to build increasing knowledge of the language. Students are expected to complete activities which may include Country Presentations and Photo Stories. **Some units covered in this course include: clothing and colors, body & health, shopping, sports, foods, house & rooms, restaurant, places & location, daily routines, present tense, past tense, commands, number to 1,000,000, making comparisons.**

HONORS SPANISH III (15536) - Prerequisite: Teacher recommendation and/or 85% or above average in Spanish II.

Meets daily – 1 Credit

This course will review previously learned grammar and vocabulary and introduces a variety of tenses and grammar concepts. The students will thoroughly learn the past tenses and their uses by the end of the course. The use of computer technology and listening exercises will support the curriculum. There will be an added emphasis on speaking the language in the classroom. Oral assessment, small group work and dialogue, and short story writing will be used to enhance listening comprehension, grammar, and vocabulary. Students are expected to complete activities which may include creating narratives & dialogues, Photo Stories, podcasts, various forms of oral assessment. **Some units covered in this course include: Vocabulary: weather, home activities and chores, health and exercise, nationalities, animals, jobs/employment, the future, travel. Grammar: commands (formal, familiar, and plural), preterit vs. imperfect (past tense), future, and conditional, Por vs. Para, pedir vs. preuntar, double object pronouns.**



HONORS SPANISH IV (15546)- Prerequisite: a grade of 80% or higher in Spanish III and/or teacher recommendation.

Meets daily – 1 Credit

In Spanish IV there will be a constant review and use of the indicative tenses previously learned – the present, preterit, and imperfect – as well as basic grammar points. Students will also learn the future tense, the conditional tense and subjunctive mood which will be covered in depth. Students will have the opportunity to read and discuss Spanish and Latin American short stories. Students will use language skills accurately and spontaneously. They will also listen to conversations and short narratives to improve listening comprehension skills. Fluency in speaking and communication of ideas will be ultimate goals. Students are expected to complete activities which may include creating narratives & dialogues, Photo Stories, podcasts, various forms of oral assessment. **Some topics covered include: vocabulary: going out, education, family, love & relationships, health, work, clothes, travel, money, economy, beliefs; Grammar: present indicative, subjunctive, past tenses, compound tenses, future tense, conditional tense.**



MATHEMATICS

Courses Offered

Algebra

- Algebraic Concepts
- Algebra IA
- Algebra IB
- Academic Algebra IA
- Academic Algebra IB
- Honors Algebra II

Geometry

- Geometry
- Academic Geometry
- Honors Geometry

Trigonometry

- Algebra II/Trigonometry
- Academic Algebra II/Trigonometry
- Honors Trigonometry

Calculus

- Introduction to Calculus
- Calculus
- LCCC Calculus And Analytic Geometry I
- AP Calculus (NEW)

Probability and Statistics

SAT Prep Math



ALGEBRAIC CONCEPTS (15315): Prerequisite: 8th grade Pre-Algebra; also considered is PSSA scores and teacher recommendation

Meets Daily – 1 credit

Due to the increase demands by the core curriculum and in order to prepare students for the Algebra I Keystone Exam, the Algebra I curriculum will be split into separate courses. Algebraic Concepts will be the first course offered. **Note: Students who are scheduled for this course will automatically be scheduled for Algebra IA and Algebra IB.**

Units covered: Foundations for Algebra, Solving equations, Solving Inequalities, Data Analysis

ALGEBRA IA (15318) - Prerequisite: Algebraic Concepts

Meets Daily – 1 credit

Due to the increased demands put in place by the Core Curriculum and in order to prepare students for the Algebra I Keystone Exam, Algebra I will be split into two separate courses. **NOTE: Students who are scheduled for Algebraic Concepts will also take Algebra IA in lieu of an elective during their 9th grade year. They will then take Algebra IB in the fall of their 10th grade year.**

Units covered in these courses are: Equations & Inequalities, Graphing Linear Equations, Systems of Equations, Polynomials, Rational Expressions, Square Roots, Quadratic Equations, and Data Analysis.

ALGEBRA IB (15137) - Prerequisite: Algebra IA

Meets Daily – 1 credit

Due to the increased demands put in place by the Core Curriculum and in order to prepare students for the Algebra I Keystone Exam, Algebra I will be split into two separate courses. **NOTE: Students who are scheduled for Algebra IA will automatically be scheduled for Algebra IB.**

Units covered in these courses are: Equations & Inequalities, Graphing Linear Equations, Systems of Equations, Polynomials, Rational Expressions, Square Roots, Quadratic Equations, and Data Analysis.

ACADEMIC ALGEBRA IA (15301) – Prerequisite: 80% in Pre-Algebra; also considered is PSSA scores and teacher recommendation

Meets daily – 1 Credit

Academic Algebra is recommended for any student who plans to further their education beyond high school.

Some units covered in this course include: Linear equations; Graphing; Linear inequalities; Linear systems; Factoring; Fractional equations; Rational expressions; and Algebraic expressions (monomials, binomials, polynomials).



ACADEMIC ALGEBRA IB (15302) Prerequisite: Academic Algebra IA or 90% or better in Algebra IA, or teacher recommendation

Meets daily – 1 Credit

Students will review and expand on the topics covered in Academic Algebra IA. Student will be introduced to new topics, which will provide a foundation for any advanced math courses in high school or college. This course is strongly recommended for any student who plans a college or university degree.

Some units covered in this course include: Linear equations and Inequalities; Imaginary Numbers; Absolute value involving equations and inequalities; Rational Expressions; Simplifying Polynomials; Distance and Slope; Quadratic Equations and Inequalities; Graphing Linear Equations; Using Formulas; Parallel and Perpendicular Lines; Radicals; and Systems of Equations.

HONORS ALGEBRA II (15322) – Prerequisite: 80% or better in 8th grade Algebra I, and/or teacher recommendation.

Meets Daily – 1 Credit

This course will expand on topics covered in Algebra I. Students will also be introduced to new topics which will provide a foundation for any advanced math courses in high school or college. This course is strongly recommended for students who excel in mathematics and/or intended on pursuing a career that requires a high level of mathematical skills.

Some Units covered in this course include: Linear Equations and Inequalities; Absolute value involving equations & inequalities; Simplifying Polynomials; Quadratic Equations and Inequalities; Using Formulas; Radicals; Imaginary Numbers; Radical Equations; Rational Expressions ; Complex Rational Expressions; Synthetic Division; Distance and Slope; Graphing Linear Equations; Parallel and Perpendicular Lines; Linear Functions; Systems of Equations; Dimensional Analysis; and Arithmetic and Geometric progressions and series.

GEOMETRY (15323) - Prerequisite: Algebra I and/or teacher recommendation.

ACADEMIC GEOMETRY (15303) - Prerequisite: 80% in Algebra IB, or 8th grade Algebra I

Meets daily – 1 Credit

Geometry is recommended for students anticipating a formal education beyond high school. It includes the study of both plane and solid figures. Emphasis is placed on logical and sequential development of geometric ideas.

Some units covered in this course include: Basic vocabulary; Postulates; Proofs of theorems; Constructions; Parallel lines; Problem solving using ideas of congruency; Problem solving using ideas of similarity; A study of circles; A study of polygons; Areas-surface areas-volumes; and A study of solids.



HONORS GEOMETRY (15324) – Prerequisite: A 90% or better in Algebra I or II or 80% in Honors Algebra II.

Meets Daily – 1 Credit

This course will cover all of the topics in Geometry. The course will cover the topics in greater depth with more emphasis on proofs, applications, using technology and real life. Geometry is recommended for students anticipating a formal education beyond high school. It includes the study of both plane and solid figures.

Some Units covered in this course include: Geometry vocabulary; Proofs of Theorems; Parallel lines; Problem solving using ideas of similarity; a study of circles; Areas-surface areas-Volumes; Postulates; Constructions; Problem solving using ideas of congruency; a study of Polygons; and A study of solids.

ALGEBRA II/TRIGONOMETRY (15338) - Prerequisite: Geometry and Algebra IB and/or teacher recommendation.

ACADEMIC ALGEBRA II/ TRIGONOMETRY (15307) - Prerequisite: 80% in Academic Geometry and Academic Algebra IB, or Honors Algebra II, or teacher recommendation.

Meets daily – 1 Credit

This course is designed for those students anticipating formal education beyond high school. Students contemplating a mathematics, science, or business-related field are urged to complete this course. The Math Department feels that a good background in algebra is essential for success in this course.

Some units covered in this course include: Pythagorean Theorem; The distance formula; The trigonometric functions; Radian and degree measure of angles; Laws of Sines and Cosines; Graphs of the trigonometric functions; Navigations; Linear Functions and Graphs; Trigonometric identities; Finding the line of best fit; Solving Right Triangles; Quadratic Functions and the Parabola; Amplitude, Period, Phase Shift; Relations and Functions; Values of Special Angles; Solving Oblique Triangles; and Exponents and Logarithms.

HONORS TRIGONOMETRY (15339) – Prerequisite: 90% in Academic Geometry or 80% in Honors Geometry and a 90% in Algebra II or an 80% in Honors Algebra II.

Meets Daily – 1 Credit

This course will cover all of the topics in Trigonometry. Trigonometry is recommended for students anticipating a formal education beyond high school. It includes the study of trigonometry, functions, relations and graphs.

Some Units covered in this course include: Pythagorean Theorem; Trigonometric function; Laws of Sines and Cosines; The distance formula; Radian and degree measure of angles; Identities; Graphs of trig functions; Right Triangles; Amplitude, Period and Phase Shift; Exponential and Logarithmic functions; Linear functions; Quadratic functions; Relations; Complex numbers; Inverse trigonometric functions; and Graphs of exponential, logarithmic, linear, quadratic, relations and inverse trig functions.



INTRODUCTION TO CALCULUS (15345) - Prerequisite: Algebra II/Trigonometry or Academic Algebra II/Trig

Meets daily – 1 Credit

Introduction to Calculus is recommended for students who plan to continue their education beyond high school in a math-related field, but who do not feel they are ready for the calculus course. Students who enroll in this course should be proficient in algebra, geometry, and trigonometry. Introduction to Calculus will review and expand upon some trigonometric and algebraic concepts, and also introduce new concepts including limits of functions and trigonometric functions, conic sections, maximum and minimum problems and related rates.

Some units covered in this course include: Relations and Functions; Composite and Inverse Functions; Symmetry; Families of Graphs; Families of Graphs; Tangent to a Curve; Synthetic Division; Natural Logarithms; Sequences and Series; Limits; Derivative of a function; Area under a curve; The area between curves; and Definite integrals.

CALCULUS (15346) - Prerequisite: 85% in Algebra II/Trig. or Academic Algebra II/Trig, or 75% in Honors Trigonometry.

Meets daily – 1 Credit

Calculus is designed for the student preparing for higher education and training in engineering, science, or other mathematics-related field. The Mathematical Association of America and the National Council of Teachers of Mathematics recommend that the calculus course offered in the 12th grade should be treated as a college-level course. These same organizations recommend that students who enroll in a calculus course in secondary school should have demonstrated mastery of algebra, geometry, trigonometry, and coordinate geometry.

Some units covered in this course include: Conic Sections; Relative External; Functions; Graphs of Polynomial Functions; Limits; Continuity, concavity, and asymptotes; The derivative; The Mean Value Theorem; Velocity and Acceleration; Rolle's Theorem; Product, quotient and chain rules; Optimization problems; Implicit Differentiation; Integration; Derivatives of Trig Functions; The definite Integral; Related Rates; and Area under a curve.

LCCC CALCULUS AND ANALYTIC GEOMETRY I (15349) - Please refer to the Dual Enrollment section of the Program of Studies on page 54. (Fall Semester)

AP CALCULUS (15347) - Prerequisite: 85% Calculus, 80% LCCC Calculus/Analytical Geometry, or teacher recommendation

Meets Daily (Spring Semester) – 1 Credit

This course is designed to prepare students for the AP Calculus AB Exam to be given in May. Students who have demonstrated mastery in algebra, geometry, trigonometry, and a previous Calculus course are eligible for this course. AP Calculus will follow the topics outline by the College Board, along with additional topics that the instructor deems fit to include. This course will move at a faster pace than the normal calculus course and require students to utilize and apply previously taught material. By doing this, the course will focus on AP Exam questions, material, and test preparation. Students enrolled in the course are **expected** to sit for the AP Calculus AB Exam in May.

Some units covered include: functions, graphs, limits, derivatives, integrals, and applications of integrals



PROBABILITY AND STATISTICS (15336) - Prerequisite: Honors Algebra II, Algebra IB, Academic Algebra IB

Meets daily – 1 Credit

This course will offer to students the necessary information in order to work with introductory probability and statistics. Probability and statistics exist in almost every aspect of life and is easily applicable in areas such as sociology, business, ecology, and economics. This course will prepare students for the rigors of college mathematics.

Some units covered in this course include: The Need for Statistics; Probability Concepts; Problem-Solving Methodology; Probability Distractions; Averages; Sampling Concepts; Dispersions; Estimating Parameters; Descriptive Statistics: and Testing Hypotheses.

SAT PREP MATH (15099): Prerequisite: Juniors

Meets every other day - .5 Credit

This course is aimed at high school juniors who are planning on taking the SAT exam. Students will learn about the structure and scoring of the SAT exam. Practice SAT exams will be frequently used to gain familiarity with both multiple choice and student-produced response questions. Critical math material needed for the exam will be reviewed by instructors.



MUSIC

Courses Offered

Concert Band

Concert Choir

Music Theory I (Independent Study)

Music Theory II (Independent Study)

CONCERT BAND (15053/15054) - Prerequisite: None.

Meets every day - 1 Credit per semester

Concert Band is open to all students who enjoy music and who desire to learn music through performance. The band's study and practice includes performances such as a winter and a spring concert as well as playing for other school and civic functions. Students are also encouraged to participate in chorus, marching band, jazz band, pep band, Lehigh County Band, District X Band, and the school musical. Students are required to attend one lesson per week on a rotating schedule. As an elective, the course may be used to fulfill a portion of the humanities graduation requirement.

Some units covered in this course include: Computer-assisted music theory; playing skills; a variety of music styles; Rhythmic reading and pitch reading; Good tone quality and intonations; Interpretation; Scales; and Small ensemble experience.

CONCERT CHOIR (15051/15052) - Prerequisite: None.

Meets every day– 1 Credit per semester

Concert Choir is designed for all students who have a love for singing. The Concert choir rehearses and performs a broad selection of excellent literature from Renaissance works through contemporary music. Music includes **everything** from folk songs to major Classical works to Broadway medleys. The student will learn about their voice and the techniques that will enable them to read music and become a stronger singer. Rehearsals take the form of the full-choir, small group sessions, individual lessons, evening dress rehearsals, and public performances. The choir performs at least two major concerts, one in December and one in May, as well as scheduled performances throughout the community. Students are encouraged to participate in Concert Band, Marching Band, and the all-District Musical, Lehigh County Chorus, and District 10 Choir.

Some units covered in this course include: Physical Vocalization Skills; Music Literacy; Sight Reading; Tone Quality and Choral Blend; and Diction.

MUSIC THEORY I (15057) - Prerequisite: Independent Study only

1 Credit

Music Theory is a course designed to teach students how to compose music or how to understand music better. Students enrolled in this course will begin with the study of basic musical notation (how to read music). The course will then move through structure of music primarily with regards to harmony (how is music organized). Students will proceed through the basic types of chords (chords used in music on the radio) and their uses in music up through the most advanced and integral compositions (Classical music). Students will also study melody in detail. In addition, students will work on ear training and learn to play the piano. A final project will be a short music composition demonstrating the content in this course. This course is highly recommended to any student pursuing a degree within music or any music-related field after high school graduation!

Some units covered include: Fundamentals of Music Notation; Ear Training; Melody and Form; Chords and Functions; Elementary Composition; and Formal Music Analysis.



MUSIC THEORY II (15058) - Prerequisite: Music Theory I. Independent Study only

1 Credit

This course continues the study of harmony begun in Music Theory I. To begin, students will take a simple diagnostic test, which will not count towards any grade, as a means of gauging what the student retains or covered in Music Theory I. Students will for the most part, complete the study of basic chords and their functions while moving into such topics as non-harmonic tones and sequences. In addition, students will begin fundamental ear training as well as piano skills to supplement and develop the student's musical skills in understanding theory. A culminating project will be a composition demonstrating the varied use of melody and harmony to the extent learned in this course and Music Theory I. This course is for any student seeking to pursue music or any music-related field after high school!

The concepts covered in this course include: Ear training; Advanced Chords and Function; Nonharmonic Tones; Advanced Forms; Composition; and Formal Music Analysis.



SCIENCE

Courses Offered

9th Grade: Physical Sciences

- Integrated Science
- Academic Integrated Science
- Honors Integrated Science

10th grade: Life Sciences

- Ecology & Cell Processes/Biology I (full year)
- Academic Ecology & Cell Processes/Academic Biology (full year)
- Honors Ecology & Cell Processes/Honors Biology I (full year)
- Anatomy
- Advanced Placement (AP) Biology

Chemistry

- Fundamentals of Chemistry
- Chemistry I
- Honors Chemistry I
- Honors Chemistry II
- Advanced Chemistry

Physics

- Physics I
- Honors Physics I
- Honors Physics II



INTEGRATED SCIENCE (15416)- Prerequisite: None
ACADEMIC INTEGRATED SCIENCE (15418)

Meets daily – 1 Credit

This course is intended for those students who plan on pursuing the Traditional Academic Pathway in high school. There is a strong emphasis on using mathematical formulas and concepts as they relate to the physical sciences. **Some units covered in this course include: Physical science basics; using thermal energy; Moving objects; Machines; Acceleration and momentum; The Nature of Matter; and Energy.**

HONORS INTEGRATED SCIENCE (15420) – Prerequisite: 90% or better average in 8th grade science *and* 80% or better average in Algebra I *and* an application from the guidance office

Meets Daily – 1 credit

Honors Integrated Science is designed for the ninth grade student with **exceptional background and aptitude in science**. Academically talented students who desire to challenge themselves or are planning to pursue a science related career are encouraged to choose this course. A strong emphasis is placed on the theoretical basis and use of mathematics to explain various laws and theories that relate to the physical science. Projects and laboratory exercises in this course require skills of independent goal setting and self-motivation. **Some units covered in this course include: Physical Science Basics; Unit Conversions; Energy; Inertia; Velocity and Acceleration; Momentum; Forces; Work; Power; Nature of Matter; and Mechanical Advantage and Efficiency of Machines.**

ECOLOGY & CELL PROCESSES (15423)- Prerequisite: Successful completion of integrated science
ACADEMIC ECOLOGY & CELL PROCESSES (15426) Prerequisite: 80% or higher in Integrated Science
HONORS ECOLOGY & CELL PROCESSES (15422)- Prerequisite: Completing of honors application and 90% or higher in Integrated Science or 80% in Honors Integrated Science

Meets Daily – 1 Credit (first semester)

This curriculum is the first part of a yearlong preparation for the state mandated Pennsylvania Biology Keystone Exam. All 10th grade students are required to take this course. The content of this course corresponds to the state anchors for Biology. A semester exam will be given at the end of Semester 1. Laboratory activities, computer activities and projects are an integral part of this learning experience. Students will be expected to be advanced in all study island topics covered under the Biology Keystone.

Units covered include: science as inquiry; nature of science; scientific investigation; cell and cell processes; chemical basis of life; basic biological principles of the cell; homeostasis, cellular transport, bioenergetics and ecology.



BIOLOGY I (15426)

ACADEMIC BIOLOGY I (15428) Prerequisite: 80% or higher in Integrated Science

HONORS BIOLOGY I (15429) - Prerequisite: Completion of Honors Application and 90% or higher in Integrated Science or 80% in Honors Integrated Science.

Meets daily – 1 Credits (second semester)

This curriculum is the second part of a yearlong preparation for the state mandated Biology Keystone Exam. All 10th grade students are required to take this course. The content of this course corresponds to the state anchors for Biology. A semester exam will be given at the end of Semester 2. Computer activities, projects, and laboratory activities are an integral part of this learning experience. Students will be expected to be advanced in all study island topics covered under the Biology Keystone.

Units covered include: cell growth and reproduction, genetics, theory of natural selection

ANATOMY (15432) - Prerequisite: A grade of 80% or better in Biology I.

Meets daily – 1 Credit

This course is designed for students planning to pursue a health or science related field. Students need to be independently motivated, have strong study skills and well-developed work ethics. Topics to be covered include an orientation to the human body and the structure and function of the body systems. Dissection and lab work are integral components of this course. **Units covered in this course are:** An Introduction to Anatomy and Physiology, The Tissue level of Organization (Histology), The Integumentary System and Function, Skeletal System and Function, Muscular System and Function, Nervous System and Function, Endocrine System and Function, Cardiovascular System and Function, Lymphatic System and Function, Respiratory System and Function, Digestive System and Function, Urinary System and Function, Reproductive System and Function

ADVANCED PLACEMENT (AP) BIOLOGY 15433) - Prerequisite: Completion of AP Application plus 90% or better in both Biology I and Chemistry I or science department recommendation. Students are strongly recommended to schedule Biology II previously - or currently - in order to complete their biology background.

Meets daily – 1 Credit

This is a freshman-level college course involving the life sciences for students who have strong science backgrounds and desire to have advanced college placement/credit or for students planning to major in biology-related curricula. Successful completion of this course may result in the granting of college credit and possibly advanced placement to the student who scores well in the AP exam. Please see the AP Biology instructor for a detailed course description and appropriate consultation prior to finalizing course selections. **Some units covered in this course include: Molecules and cells (structure and function); Genetics and evolution (molecular and Mendelian genetics, heredity, and evolution); Organisms and populations; and Energy in Living Systems (Thermodynamics, enzymes, respiration, and photosynthesis).**



FUNDAMENTALS OF CHEMISTRY (15438): Prerequisite: Successful completion of Integrated Science

Meets daily- 1 credit

This course is recommended for student with a limited background in science and math. After covering the basic chemical principles and mastering basic math skills, students will apply the scientific method and chemical principles to explore matter and energy. This course is not designed to be a preparatory course for other high school chemistry courses.

Some units covered in this course include: elements, compounds and mixtures, metric system, measurements and solving problems, atomic structure, chemical bonding, periodic law, equations, chemical formulas, and elementary Stoichiometry. Student should have a scientific calculator as it will be needed to complete assignments in this course.

CHEMISTRY I (15439) - Prerequisite: Successful completion of the academic or honors freshman year science course. 80% or better in Algebra II, 75% in Honors Algebra II

Meets daily – 1 Credit

This course is recommended for academically-oriented students. The student **MUST** demonstrate adequate problem-solving skills throughout the program. The course stresses the more technical, mathematical approach to the mastery of chemical principles and concepts. The course includes the study of atomic structure, energy, common elements, compounds and mixtures; periodic arrangement of elements and its use in predicting chemical behavior, chemical reactions, equations, Stoichiometry, and some chemical bonding. **Some units covered in this course include: Elements, Compounds, and Mixtures; Metric System; Measurements and Solving Problems; Atomic Structure; Quantum View of the Atom; Periodic Law; Chemical Bonding; Chemical Formulas; Equations; and Stoichiometry. Students should have a scientific calculator and a bound composition book as it will be needed to complete assignments in this course.**

HONORS CHEMISTRY I (15440) - Prerequisite: Completed Honors Chemistry I Application and completion Academic Algebra II with a grade of 85% or higher or Honors Algebra II with a grade of 80% or higher. Successful completion of honors integrated science freshman year.

Meets daily – 1 Credit

This course is designed for the student with exceptional background and aptitude in science. It includes an in-depth study of chemical concepts. Emphasis is on developing higher level thinking skills. This course will involve detailed laboratory reporting and analysis. Collection of classroom data is an integral part of this course.

Some units covered in this course include: Elements, Compounds and Mixtures; Metric System; Measurements and Solving Problems; Atomic Structure; Quantum View of the Atom; Periodic law; Chemical Bonding; Chemical Formulas; Equations; Stoichiometry; and Gas Laws. Students should have a scientific calculator and a bound composition book as it will be needed to complete assignments in this course.



HONORS CHEMISTRY II (15442)- Prerequisite: Completed Honors Chemistry II Application and a minimum 80% in Chemistry I or 70% in Honors Chemistry I.

Meets daily – 1 Credit

Chemistry II provides a detailed look at more involved areas of chemistry. This is a more involved laboratory-oriented course which will include detailed laboratory reporting. This course should prove of value for the student planning to enter higher education in the “Physical Science” areas and advanced professions in the “Life-Sciences.” This course is designed for the student with exceptional background and aptitude in science. Emphasis is on developing higher level thinking skills. **Some units covered in this course include: Review of Chemistry I concepts; Kinetic Theory of solids, liquids and gases; The Solubility Product Principle; Thermochemistry; Ionic Equilibrium of Weak Electrolytes; Electrochemistry and Redox Reactions; Acids, Bases, and Salts; and Chemical Kinetics and Chemical Equilibrium.** Students should have a scientific calculator and a bound composition book as it will be needed to complete assignments in this course.

ADVANCED CHEMISTRY (15443)- Prerequisite: Completion of Application and successful completion of Honors Chemistry I and Honors Chemistry II. Trigonometry is highly recommended before taking this course.

Meets daily – 1 Credit

This course is equal to a first year college course. It differs from the usual secondary course with respect to the number of topics studied, rate the material will be covered, depth of study, emphasis on calculations, amount of homework and type and variety of lab work completed by the student. Lab work will include the use of sensitive balances, spectrophotometers, and other analytical equipment. Unknowns will be identified through analytical and qualitative chemistry. Each lab report will include a sophisticated analysis of the experiment. Students can expect an hour or more of homework per night. With our block scheduling it will not be unusual to cover a chapter per day or two; students will be expected to have a strong individual work ethic. The instructor will be here, as your mentor and coach, but you will need to accept a strong commitment for your own learning. Remember this is a college course. **Some units covered in this course include: Stoichiometry; Wave functions; Precipitation and Oxidation; Molecular shape; Gas Laws; Rates of Reaction; Thermodynamics; and Equilibrium reactions.** Students should have a scientific calculator and a bound composition book as it will be needed to complete assignments in this course.

PHYSICS I (15448) - Prerequisite: Successful completion of the academic or honors freshman year science and trigonometry. 80% or better in Algebra II, 75% in Honors Algebra II

Meets daily – 1 Credit

This course is recommended for academic students preparing for college. Physics is a course which emphasizes the qualitative study of the relationship between matter and energy. Students will develop logic and reasoning skill while studying this relationship through mathematical modeling, the scientific process and laboratory experiments.

Units covered: mechanics, thermodynamics and electricity



HONORS PHYSICS I (15447) – Prerequisite: Completion of trigonometry with a grade of 85% or higher. If a student has not taken trigonometry the student must have earned a 90% or higher in Algebra II.

Meets daily – 1 Credit

This course is designed for students with an exceptional mathematical and scientific background that are preparing for science oriented careers. Physics is a course which emphasizes the qualitative study of the relationship between matter and energy. Other aspects include acquiring a vocabulary, transposing theoretical mathematics to application, recognizing the intuitive aspects of physical principles, and acquiring an appreciation of the scientific process. Laboratory experiments will be used throughout the course to reinforce the above aspects.

Units covered: mechanics, thermodynamics and electricity

HONORS PHYSICS II (15449) -Prerequisite: Physics I with an average of 80% or greater and completion of an application or Honors Physics I with a 70% or greater

Meets daily – 1 Credit

This course is a continuation of Physics I and is highly recommended for students who plan to take Physics in college. **Units covered: circular and rotational motion, light and optics, and quantum mechanics.**



SOCIAL STUDIES

Core Courses Offered

United States History II
Honors United States History II
United States History III
Honors United States History III
Civics: Government and Economics
Honors Civics: Government and Economics
World History
Honors World History
AP US History (NEW)
AP European History (NEW)

Electives Offered

Psychology
Sociology
Introduction to Economics
Second World War
Honors Psychology (PITT credit option)

UNITED STATES HISTORY II (15216) - Prerequisite: Required for freshman students

Meets daily – 1 Credit

United States History is the study of the social, economic, and political development of the United States and its people from the Progressive Era to the end of World War II. Through the chronological study of American history and culture, the common ideals and values that give meaning to our national character can be appreciated. The evolution of the American people, their beliefs, and concern for individual human dignity and rights will be given emphasis so as to provide a historical perspective for future decisions.

HONORS UNITED STATES HISTORY II – Prerequisite: Completed Honors Application and a minimum of a 90% in previous social studies courses and 85% in English 8.

Honors United States History II is a fast-paced, in-depth survey course that will give the student a thorough understanding of the economic, political, and social development of the United States and its people from the end of the Reconstruction era to the conclusion of World War II. Through the chronological study of American history and culture, the common ideals and values that give meaning to our national character can be appreciated. The evolution of the American people, their beliefs, and concern for individual human dignity and rights will be given emphasis to provide a historical perspective for future decisions. This course is largely class discussion and lecture format. The use of primary source readings and other secondary essays will complement the main text. **This course will introduce the student to writing in a social studies course.**

UNITED STATES HISTORY III (15226) - Prerequisite: Required for sophomore students

Meets daily – 1 Credit

United States History III is the study of the social, economic, and political development of the United States and its people from the end of World War II to the historic election of Donald Trump as president. Through the chronological study of American history and culture, the common ideals and values that give meaning to our national character can be appreciated. The evolution of the American people, their beliefs, and concern for individual human dignity and rights will be given emphasis so as to provide a historical perspective for future decisions.



HONORS UNITED STATES HISTORY III (15228) - Prerequisite: Completed Honors Application and an average of 90% in previous social studies courses.

Meets daily – 1 Credit

This challenging course, designed for the student with an exceptional background and aptitude in American History, is especially recommended for those students who are planning to major in History in college. This college preparatory course provides an in-depth examination of American History from the end of World War II to the historic election of Donald Trump as president. The use of primary sources and other collateral readings will be emphasized.

CIVICS: GOVERNMENT AND ECONOMICS (15246): Prerequisite: A non-freshman course

Meets Daily – 1 Credit

Civics: Government and Economics is a survey course that will give the student a basic understanding of the functions and the services of democratic and economic systems. To facilitate such understanding, we will engage in a topical study of our economy and our government. First, we will define the meaning of American citizenship. Second, we will examine how our democratic system developed. Third, we will investigate the specific rights guaranteed to each citizen by our Constitution. Fourth, we will explain the election process and the party system. For the economics portion of the semester, we will examine our economy. The course will examine the basics of our economic system. Additionally, we will examine the role of money and banking in our American society. If time permits, the course will investigate the criminal and juvenile justice systems. **This course is a graduation requirement of all students.**

HONORS CIVICS: GOVERNMENT AND ECONOMICS (15250) – Prerequisite: Completed Honors Application and 90% in high school social studies courses (85% in weighted course)

Meets daily – 1 Credit

Honors Civics: Government and Economics is a fast-paced, in-depth survey course that will give the student a thorough understanding of the functions and the services of democratic and economic systems. This course is largely class discussion and lecture format. To facilitate such understanding, we will engage in a topical study of our economy and our government. First, we will define the meaning of American citizenship. Second, we will examine how our democratic system developed. Third, we will investigate the specific rights guaranteed to each citizen by our Constitution. Fourth, we will explain the election process and the party system. For the economics portion of the semester, we will examine our economy. The course will examine the basics of our economic system. Additionally, we will examine the role of money and banking in our American society. If time permits, the course will investigate the criminal and juvenile justice systems. **This is a writing intensive course.**



WORLD HISTORY (15236) – Prerequisite: US History II and US History III

Meets daily – 1 Credit

World History is a comprehensive study of the culture, geography, and lasting effects of historical events on our world today. As a survey course, it will focus on four major eras in world history beginning with the Renaissance and ending in the modern era following the events of World War II. The geography of a nation can often determine the course of its history and the evolution of the culture of its people throughout time. Students will be able to clearly identify historical events which shaped the world they live in today, on a local and global scale. Through the chronological study of trade and interactions between groups, students will observe the global influence on our values, beliefs and rights as American citizens. The class will focus greatly on both lecture as well as in-depth class discussion. Students will be encouraged to discover for themselves the parallels between their lives and the lives of important figures throughout time.

***For Juniors and Seniors only. Students must have taken US History II and III prior to this class.**

HONORS WORLD HISTORY (15239)- Prerequisite: 90% or above in US History II, III, and Civics: Government or an 85% in Honors US History II,III and Honors Civics: Government and completed application

Meets daily- 1 Credit

Honors World History is a challenging, comprehensive study of the culture, geography, and lasting effects of historical events on our world today. As a survey course, it will focus on broad overarching topics throughout world history. It is based upon on four major eras in world history beginning with the Age of Exploration and ending in the modern era following the events of World War II. The geography of a nation can often determine the course of its history and the evolution of the culture of its people throughout time. Students will have the opportunity to analyze world events by focusing on causality and global consequences. Students will be able to understand the value of diplomacy among nations and endeavor to predict possible outcomes of diplomatic action based upon cultural, ethnic, and religious divides. Through the chronological study of trade and interactions between groups, students will observe the global influence on our values, beliefs and rights as American citizens. The class will focus greatly on both lecture as well as in-depth class discussion. Students will be encouraged to discover for themselves the parallels between their lives and the lives of important figures throughout time.

ADVANCED PLACEMENT UNITED STATES HISTORY (15229)- Prerequisites: Students should be able to read a college-level textbook and write grammatically correct, complete sentences; Completed application; 90% in high school History classes, or 85% in honors history courses

Meets daily- 1 Credit

The College Board's Advanced Placement Program (AP) enables students to pursue college level studies while still in high school. AP US History focuses on developing students' understanding of American History from approximately 1491 to the present. The course has students investigate the content of United States history for significant events, individuals, developments, and processes in nine historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past. The course also provides seven themes (American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world; geography and the environment; and culture and society) that students explore throughout the course in order to make connections among historical developments in different times and places.

AP United States History concludes with a college-level assessment developed and scored by college and university faculty as well as experienced AP teachers. AP Exams are an essential part of the AP experience, enabling students to demonstrate their mastery of college-level coursework. Most four-year colleges and universities in the US and universities in more than 60 countries recognize AP in the admission process and grant students credit, placement, or both on the basis of successful AP Exam Scores.

AP US History is designed to be the equivalent of a two-semester introductory college or university course.



ADVANCED PLACEMENT EUROPEAN HISTORY (15240) - Prerequisite: 90% or higher in high school history courses; Completed application

Meets daily – 1 Credit

AP European History focuses on developing students' understanding of European history from approximately 1450 to the present. In this course, students will investigate the content of European history for significant events, individuals, developments, and processes in four historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past. The course also provides five themes (interaction of Europe and the world; poverty and prosperity; objective knowledge and subjective visions; states and other institutions or power; and individual and society) that students explore throughout the course in order to make connections among historical developments in different times and places. This will be a challenging, college level course, culminating in the AP European History exam. Students interested in the course must be able to read and interpret a college-level textbook and possess the skills necessary to write according to academic standards. European History has similar prerequisites to Honors World History and counts towards students' world history graduation requirement. United States History II and III are prerequisites.

HONORS PSYCHOLOGY (15254)- Prerequisite: 85% or higher in previous social studies class

Meets daily- 1 Credit, with optional enrollment for PITT Dual Enrollment credit

Honors Psychology will focus on the scientific study of the behavior and mental processes of human beings. You will learn psychological facts, principles and phenomena within the various fields of Psychology. This course may also be taken for college credit through **The University of Pittsburgh**.

- Students will think critically about the world of Psychology and their relationship to it.
- Students will learn about Psychologists, their experiments and theories, over the past century.
- Students will assess differing theories of Psychologists such as Psychoanalytic, Behavioral, Cognitive, Humanistic, Biological and they will explore socio-cultural perspectives.
- Students will demonstrate an understanding of how Psychologists think and the ethical ways in which they test their hypotheses.
- Students will be able to relate Psychological theories to current events, think critically and draw their own conclusions

PSYCHOLOGY - Prerequisite: Sophomore, Junior, Senior

Meets daily – 1 Credit

Psychology is defined as the scientific study of behavior and mental processes. This Psychology course is designed to introduce students to major theories and concepts associated with the Introduction to Psychology. Key concepts such as major psychological schools, theorists, child and adolescent psychology will be identified. Students will also analyze psychological disorders as well as methods of treatment. Students will be given a broad overview of major terms associated with Psychology.

SOCIOLOGY (15248) - Prerequisite: Junior or senior only.

Meets daily - 1 Credit

Sociology is defined as the scientific study of groups of people. This Sociology course is designed to introduce students to major theories and concepts associated with the Introduction to Sociology. Key concepts such as the history of sociology, social structure, adolescence, adulthood, crime and deviance, and class systems will be identified. Students will gain an understanding of how the individual functions within different social settings. Students will be given a broad overview of major terms associated with Sociology.



INTRODUCTION TO ECONOMICS (15252) - Prerequisite: Successful completion of Civics: Government & Economics

Meets daily – 1 Credit

Introduction to Economics is an academically challenging elective that is recommended for any student planning to attend a four-year college or university or any student planning a post-high school career in economics or business. This course, which meets state and national standards, focuses on the study of economic behavior and decisions in a nation's whole economy. Students will explore the importance of money, banking, and finance in our economic system, as well as topics such as economic growth, unemployment, inflation, taxes, government spending, the national debt, the Federal Reserve System, international trade, and globalization.

SECOND WORLD WAR (15230) - Prerequisite: Sophomore, junior or senior students.

Meets daily – 1 Credit

This elective allows juniors or seniors to investigate and understand the causes, events, and effects of World War II. This epochal struggle transformed the world; its aftershocks continue after the passage of over half a century. The war will be studied from an American perspective, but will examine issues such as the rise of Fascism in Italy and Germany, the rise of militarism in Japan, the worldwide economic depression of the 1930's, the failure of collective security among the democratic powers in Europe, and the Holocaust. Although military strategy constitutes a key component of this course, other aspects will be investigated, including political, economic, and social issues. A special point of focus will be the American "home front," which underwent a significant transformation. A research paper, an interview and a book report are required. Selected documentaries will supplement the textbook and other collateral readings. This course will require a considerable amount of reading; it is important that the student have a good reading background and interest in the subject.



TECHNOLOGY EDUCATION

Courses Offered (listed by level of difficulty)

Web Design
Video Production
Television Studio
Computer-Aided Drafting Technology I (CAD I)
Principles of Technology I
Computer-Aided Drafting Technology II (CAD II)
Principles of Technology II
Video Production II

WEB DESIGN (15378) - Prerequisite: None

Meets daily – 1 Credit

Throughout this course, students will be introduced to the key principles and technologies of effective and attractive web design, focusing on both the aesthetic appearance of the site's imagery as well as the basic programming languages that enable the site's functionality.

The objective of this class is to produce a website that demonstrates thoughtful planning through logical content organization and consideration for a target audience, attractive site design through artistic principles and a working command of graphic software, and the utilization and implementation of the HTML programming language to create a functioning website.

VIDEO PRODUCTION (15377) - Prerequisite: None

Meets daily – 1 credit

Throughout the video production course, students will explore the history of video technology and concepts associated with visual storytelling, as well as gaining experience with recording equipment and professional-grade non-linear editing and motion-graphics software to create their own video presentations.

TELEVISION STUDIO- Prerequisite: Video Production with a final grade of 75% or higher, or completed application

Meets daily- 1 Credit

The Television Studio curriculum will expose students to the challenges of producing a live daily television broadcast. Students will gain experience with broadcasting equipment including cameras, microphones, video switchers, audio boards, teleprompters, and studio lighting. Students will also become familiar with professional editing and graphics software, such as Adobe Photoshop, Adobe Premiere, Adobe After Effects, Adobe Audition, Pinnacle Studio, MirrorScript Pro, and Microsoft PowerPoint. Additionally, students will gain valuable journalism experience by writing and conducting school-related news reports, interviews, sports coverage, and other student-interest segments. Students will write, plan, budget, direct, film, edit, and create graphics for their own news segments, a multi-step process which allows for interdisciplinary connections to nearly all Common Core subject areas.



COMPUTER-AIDED DRAFTING TECHNOLOGY I (CAD I) (15043) – Due to enrollment limitations, upperclassmen are given priority.

Meets daily – 1 Credit

Students will learn to use drafting and design computer software programs and apply them to a variety of drawing and design situations. After a computer hardware/software orientation, students will learn to read and draw several types of technical drawings. This information will then be applied in the design process as students work individually on a number of architectural and mechanical design activities. Students will play the role of professional designers and planners who create design solutions to the given problems. **Some units covered in this course include: Use of the computer in drawing; Use of printers and plotters; Use Auto Cad Programs for design, drawing, and problem-solving.**

PRINCIPLES OF TECHNOLOGY I (15041) – Due to enrollment limitations, upperclassmen are given priority.

Meets daily – 1 Credit

Students will be introduced to advanced problem solving methods. The focus of the course is to develop a means of designing solutions to technical problems through brainstorming, analysis, prediction, construct testing and test result evaluation. Students will be presented with hypothetical or actual problems and proceed in small groups or individually, to create solutions. Presentation and analysis are culminating activities. **Some units covered in this course include: Communications; Transportation; Power Technology; Construction; Research Applications; Word Processing; and C. A. D.**

COMPUTER-AIDED DRAFTING TECHNOLOGY II (CAD II) (15044)-Prerequisite: CAD I. Due to enrollment limitations, upper classmen are given priority.

Meets daily – 1 Credit

Students will continue their computer-aided drafting experience. Course will allow students to work at their own individual level with the Auto-Cad Program. Advanced level will include Auto Cad 3D, a 3-D drawing program and architectural drafting is available. Design and critical analysis is highlighted. **Some units covered in this course include: Advanced Drawing Applications; Architectural Drawing; and 3-D Solid Modeling.**



PRINCIPLES OF TECHNOLOGY II (15042)-Prerequisite: Principles of Technology I. Due to enrollment limitations, upper classmen are given priority.

Meets daily – 1 Credit

Principles of Technology II is the second course in a sequential series in the technology curriculum. Students will be introduced to STEM (Science, Technology, Engineering, and Math) while working on a project as a group or individually. A number of STEM activities will be applied to help students as they design and build a fully working electric guitar. This exciting project can be done as a group, where a guitar will be built for a school organization or local business or individually, where the student will purchase the kit and build the guitar. No guitar playing experience is necessary for this class, but certainly is welcomed. **Some units covered include: woodworking, engineering, 3D design (solid works), prototyping, electronics, guitar set up, science and mathematics that apply to guitar use and design, research applications, word processing.**

*****If a student would like to build his or her own guitar, there will be a cost involved. This is not a requirement and arrangements will be made for a student to build a guitar for a group or organization, at no cost to them.*****

VIDEO PRODUCTION II (15089)- Prerequisite: 70% of higher in Video Production I

Meets daily- 1 Credit

The Video Production II curriculum will build upon the foundation established in Video Production, delving deeper into production (filming) processes and post-production (editing) concepts using Adobe Premiere Pro. Students will also be introduced to motion, graphics, animation, and special effects through the use of Adobe After Effects. In addition, the school's Television Studio, teleprompters, and green-screen will be a valuable resource as students expand their experience with the various facets of Video Production.

Video Production II will focus on advanced aspects of the production process and will require a more independent and self-disciplined approach on behalf of the students. Over the course of the semester, students will write, plan, budget, direct, film, edit, and create graphics for their own short (15-30 minutes) student film, a multi-step process which allows for interdisciplinary connections to nearly all PA Core subject areas.



WELLNESS AND FITNESS

Wellness/Fitness I: All Freshmen will be scheduled this course.

Wellness/Fitness II: All Sophomores will be scheduled this course.

Wellness/Fitness III: All Juniors will be scheduled this course.

Meets daily – 1 Credit

Wellness and fitness are essential for the healthy development of each student and our community as a whole. The well being of our students will largely determine the quality of life they will have throughout their lifetime. To thrive in our ever-changing world, our students will acquire and use knowledge, skills and habits necessary to promote individual, family, and community wellness and fitness. During our students' three year participation in wellness and fitness, they will focus on completing outcomes in concepts of health, healthful living, safety and injury prevention, physical activity, and concepts, principles, and strategies of movement.

Some units covered in this course include invasion games, striking/fielding games, net games, target games, weight training, physical fitness, and the Presidential Physical Fitness Tests.

IMPORTANT: If a student successfully completes Wellness/Fitness I, II, and III they will not take a gym course during their senior year.



2017 - 2018

**Dual Enrollment
Descriptions**



LCCC COLLEGE ENGLISH 105 (15150)- Prerequisite: Students will have passed the appropriate level III English course (Honors, Academic, or Integrated) and met the appropriate level on LCCC's placement exam to register for this course.

Meets 2x weekly – 1 English Credit - 3.0 College Credits

Cost: TBA + textbooks

In College English I, students write essays, develop a research paper, and master library skills. Students strive for sound logic, effective use of details, appropriate diction, and correct grammar and mechanics. Students study models of good writing, which include student essays as well as professionally written essays. A minimum of 12 students must be registered for this course to be offered.

****LCCC CALCULUS AND ANALYTIC GEOMETRY I (15349)**- Prerequisite: Students will have passed Trigonometry (Honors or Academic) and met the appropriate level on LCCC's placement exam to register for this course.

Meets daily – 1 Math Credit - 3.0 College Credits

Cost: TBA

This course is primarily intended for students majoring in science, mathematics, or engineering. Topics include: data analysis, limits, differentiation, with applications (optimization and related rates), and integration. A graphing calculator is required

****LCCC PAINTING I (15075)**– Prerequisite: Earned grade average of 75% or higher in Northern Lehigh's Painting I and/or teacher recommendation.

Meets daily – 1 Credit - 3.0 College Credits

Cost: TBA

This course includes basic instruction in form, color, value, composition, and historical material. The media will include oil and acrylic. Students are encouraged to create works driven by personal expression.

LCCC FUNDAMENTALS OF EARLY CHILDHOOD EDUCATION (15030) - Prerequisite: Students will have taken Northern Lehigh's Child Development course and received a grade of 80% or higher and/or recommendation of teacher.

Meets daily – 1 High School Credit - 3.0 College Credits

Cost: TBA

This course offers an analysis of Early Childhood Education through historical, current, and future perspectives. Discussions of current teaching trends and best practices are included. Topics covered include major theorists, types of programs, environments, and cultural diversity.



IMPORTANT INFORMATION REGARDING DUAL ENROLLMENT COURSES:

1. Any dual enrollment course that is preceded with (**) **WILL BE** calculated in the student's grade point average (GPA) as an honor's course and class rank. Any dual enrollment course that **DOES NOT** have asterisks **WILL NOT** be calculated in the student's grade point average and class rank.
2. Students interested in enrolling in these courses must follow all guidelines established between Northern Lehigh and LCCC. These guidelines can be found on the Northern Lehigh High School Guidance page at www.nlsd.org/srhnlsd/
3. Students will be given instructions on how to enroll in these courses through the guidance department.
4. Course descriptions can be found at www.lccc.edu/academics/course-search
5. LCCC College English 105 and LCCC Introduction to Psychology will be offered Block 4 one semester and Block 1 the other semester. College English 105 will run Monday, Wednesday and Intro. to Psychology will run Tuesday, Thursday. **No classes will be held on Friday. If a student does not have a class scheduled during one of these days during the time that the course is offered, they will be required to leave campus. This will result in students finding their own method of transportation.**

For example, a student taking LCCC English block 1 would have class Monday and Wednesday from 7:38-9:08. Therefore, on Tuesday, Thursday, and Friday the student would be required to report to NLHS by the beginning of block 2. They would need to find their own transportation.

****Note:** It is highly recommended that a student not having transportation to accommodate this change should refrain from taking these dual enrollment courses.



NCAA APPROVED COURSES

ENGLISH

15116 Academic English I
15118 Honors English I
15126 Academic English II
15128 Honors English II
15136 Academic English III
15128 Honors English III
15146 Academic English IV
15149 AP English
15168 Public Speaking
15147 Creative Writing

SOCIAL STUDIES

15216 US History II
15218 Honors US History II
15226 US History III
15228 Honors US History III
15236 World History
15239 Honors World History
15230 The Second World War
15237 Psychology
15248 Sociology
15252 Intro. To Economics
15246 Civics:Govt & Econ
15250 Honors Civics:Govt & Econ
15254 Honors Psychology
15229 AP US History
15240 AP European History

FOREIGN LANGUAGE

15516 Spanish I
15526 Spanish II
15536 Spanish III
15546 Honors Spanish IV

MATHEMATICS

15301 Academic Algebra IA
15302 Academic Algebra IB
15303 Academic Geometry
15307 Academic Algebra II/Trig.
15322 Honors Algebra II
15324 Honors Geometry
15339 Honors Trigonometry
15336 Probability&Statistics
15345 Intro Calculus
15347 Calculus
15348 AP Calculus

SCIENCE

15420 Honors Integrated Science
15422 Honors Ecology/Cell Processes
15429 Honors Biology I
15418 Academic Integrated Science
15426 Academic Ecology/Cell Processes
15428 Academic Biology I
15432 Anatomy
15433 AP Biology
15439 Chemistry I
15440 Honors Chemistry I
15442 Honors Chemistry II
15443 Advanced Chemistry
15447 Honors Physics I
15448 Physics I
15449 Honors Physics II

ELECTIVES

15041 Principles Technology I
15042 Principles Technology II

