

**North East High School  
Program of Studies  
2019-2020  
(814) 725-8671**

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Middle School Principal .....	Mr. Gregory Beardsley
Middle School Assistant Principal.....	Mr. Steve Karns
Intermediate Elementary School Principal .....	Mr. Brian Emick
Primary Elementary School Principal .....	Dr. Jennifer Ritter

.....  
*Dear Student / Parent:*

*This handbook is supplied to assist you in creating an appropriate course schedule for next school year. Students and parents need to give consideration to choosing courses so that you satisfy graduation requirements, career objectives, and proper academic progressions. In addition, please be sure that you have the proper prerequisites to be in the courses you have chosen.*

*Much consideration and effort is made by your high school principals and counselors to ensure that you have chosen and receive the best possible course schedule. Individual meetings take place with your guidance counselor to ensure the best possible schedule, therefore, student schedule changes are less likely to occur as the beginning of the school year approaches. Teachers and students are assigned to classes based on course selections made by the student in the previous spring. This is to ensure that class sizes are as balanced as possible. Schedule changes that occur after the school year has started only detract from the balance created in the school's master schedule. Your cooperation in maintaining a healthy academic program is expected. Parental involvement is encouraged in the scheduling process. Parents and students should be aware that credit for a course taken and passed can only be awarded once for any given student, unless approved by the principal. Students should select 8 credits of required and elective courses. Most students will not receive all of the courses requested and need to select at least 2 credits of alternate courses. Also, please consult with teachers when selecting instructional levels (regular, honors, AP.)*

*We encourage you to study this handbook carefully and to complete the scheduling worksheet in a timely manner. If you have any questions about your choices, please contact your guidance counselor. It is our wish that you obtain the best education possible during your high school years. Making good choices now plays a big part in your future.*

*Sincerely,*

**Mr. Regan Tanner** (Principal)  
**Mr. William Renne** (Assistant Principal)  
**Mrs. Dawn Coletta** (Counselor)  
**Mrs. Laura Panek** (Counselor)  
**Mr. Matthew Puskar** (Counselor)

## North East High School 2019-20 Faculty

### **Academic Learning Support**

Mark Hughes  
Cindy Olson  
Kyle Regan  
Leslie Shickler

### **Art**

Patrick Fordyce  
Caryn Krahe

### **Business**

Kari Trimble

### **Driver Education**

Shawn Humes

### **English**

Kira Borgia  
Sara Cowan  
Emalie Nagle  
Kathy Nies  
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### **Family and Consumer Science**

Connie Miller

### **World Language**

Cheri Dohmen  
Susan McElhinny  
Deborah Rao

### **Guidance**

Dawn Coletta  
Laura Panek  
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### **Health Services**

Janice Brabender  
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### **Industrial Arts**

Philip Blumer

### **Librarian**

Nicole Fitch

### **Mathematics**

Cindy Carlson  
Kristin Fry  
Dan Hering  
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Aaron Wood

### **Music**

Stephan DeGrosky  
Tara Hart-Lewis

### **Physical Education**

Shawn Humes  
William Mackin  
Catherine Moyer  
Paul Pennington

### **Science**

Paul Becker  
Jamison Drab  
Katie Gallagher  
Noel Mraz  
Phil Sarver

### **Social Studies**

Adam Denevic  
Cathy Duma  
Gregory Henning  
Mercedes Henning  
Jennifer Wilson

# **NORTH EAST SCHOOL DISTRICT STRATEGIC PLAN**

## ***CORE VALUES***

We believe that:

- All people have equal intrinsic worth.
- Life-long learning is essential for the individual and society to flourish.
- Involved families are fundamental to successful communities.
- Understanding diversity enriches life.
- All people have the capacity to contribute; and when they do, everyone benefits.
- Adults are the most influential role models for children.

## ***MISSION***

The mission of the North East School District is to challenge, empower, and engage all students to develop and achieve personal and career aspirations, to pursue lifelong learning, and to be responsible and accountable citizens in a dynamic world.

## ***STRATEGIC OBJECTIVES***

- All students will continually establish and achieve significant personal goals and experience the benefit of doing so.
- All students will continually and enthusiastically express their love of learning to the world by their words and/or actions.
- All students will choose to actively participate in self-designed and/or existing programs that enhance the community.

## ***STRATEGIES***

**We will:**

1. Empower all staff throughout the District to achieve all of our Strategic Objectives and Mission.
2. Create and sustain a solid foundation of trust extending from within the system outward to the community which will foster the unity essential to achieve our Strategic Objectives and Mission.
3. Collaborate with the community so that we all understand, support, and contribute to our Strategic Objectives and Mission.
4. We will develop, align, and implement an effective and comprehensive curriculum to ensure the attainment of our Strategic Objectives and Mission.

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## Graduation Requirements

- **Credits**

Students who remain at **North East High School** on a full time basis must successfully complete 27.0 credits in grades 9 – 12 as follows:

<b>COURSE REQUIREMENTS</b>	<b>CREDITS</b>
Mathematics	4.0
English	4.0
Social Studies	4.0
Science <i>biology is required</i>	4.0
Health	1.0
Electives*	10.0
Career Portfolio	Successful Completion
<b>Total Credits</b>	<b>27.00</b>

\*Two credits of the required elective courses must be Arts and Humanities courses from any of the following departments: fine art, music, technology education, world language, family and consumer science, English and social studies. In addition students must take and pass Intro to Computers (0.5 credits).

Students who choose to attend the **Erie County Technical School** must successfully complete 24.0 credits in grades 9 – 12 as follows:

<b>COURSE REQUIREMENTS</b>	<b>CREDITS</b>
Mathematics	3.0
English	4.0
Social Studies	3.0
Science <i>biology is required</i>	3.0
Health	1.0
ECTS Lab Credits	9.0 lab credits for 3 year tech graduates 6.0 lab credits for 2 year tech graduates 3.0 lab credits for 1 year tech graduates
Electives*	Varies based on tech schedule
ECTS/Career Portfolio	Successful Completion
<b>Total Credits</b>	<b>24.00</b>

\*Two credits of the required elective courses must be Arts and Humanities courses from any of the following departments: fine art, music, technology education, world language, family and consumer science, English and social studies. In addition students must take and pass Intro to Computers (0.5 credits).

- **Keystone Exam Proficiency**

Beginning with the graduating class of 2022, the Pennsylvania Department of Education will require demonstrated proficiency on the Algebra I, Biology, and Literature Keystone tests in order to graduate from a Pennsylvania public school. The Keystone tests will be administered two times per year in the winter and spring. Students who do not achieve proficiency on the exams will be given portions of the Keystone to try and attain proficiency, or meet another PDE criteria to earn a diploma at NEHS.

## **Career Cruising/Portfolio Requirements**

- *Full time NEHS students* are required to complete all items listed unless otherwise noted.
- *New students to the HS* will begin their portfolio during the year of enrollment -- they are not required to make up work from a previous year, unless the work is necessary/meaningful for portfolio completion. For example, a new junior or senior will find it necessary to complete the matchmaker, may want to list activities and experiences from grade 9 to the present (in order to write a resume), and will need an ASVAB score. If the ASVAB is not available, the Career Cruising Ability Profiler can be utilized.
- *ECTS and Transition students* are required to complete all items with an \*, and complete their ECTS portfolio. Throughout grades 10 - 12 participation is expected during in-class career/Career Cruising presentations, but the completed task may not be required for portfolio completion.
- *Cyber students* are required to complete the following prior to receiving a diploma: Matchmaker, My Skills, Learning Styles Inventory, My Activities and Experiences, Career Selector, Undergraduate or Technical School Selector, and Build My Resume -- career cruising login information will be provided.
- *Students in placement (CAEP/Sarah Reed)* will follow the requirements for Cyber students; however, any tasks completed prior to placement can be used to fulfill the requirement.

### **9th**

Matchmaker\*  
Learning Styles (unless completed in 8th grade)\*  
Three Career Worksheets\*  
My Activities and Experiences (Extracurricular to Work Experiences)\*  
Goals\*

### **11th**

My Activities & Experiences\*  
Goals\*  
Five College Rep visits (due January of senior year)  
ASVAB (test and worksheet)\*  
Resume and Cover letter\*  
Widget Budget Simulation (participation and worksheet)\*  
Career Portfolio Response Questions  
ECTS Reflection Questions\*

### **12th**

My Activities and Experiences\*  
Goals\*  
Portfolio Presentation\*

### **10th**

Matchmaker  
My Skills  
Two Career Worksheets  
My Activities and Experiences\*  
Employment/Soft Skills\*  
Goals\*  
Entrepreneurship TBD\*

**Promotion Requirements Grades 9 – 12**

Promotion from one grade to the next depends upon credits earned. All full year courses are worth one credit; all semester courses are worth one-half credit. Students are expected to make yearly progress in their major academic subjects to ensure graduating in a timely fashion. Typically, students should follow these guidelines:

- From grade 9 to 10: A student must pass at least three of the four major subjects and earn at least 4.5 credits.
- From grade 10 to 11: A student must earn at least 11 credits.
- From grade 11 to 12: A student must earn at least 19 credits.

Students who fail to make yearly progress (as noted above) jeopardize the opportunity to graduate within four years.

**Grading System**

North East High School uses a letter grading system based upon the following percentages:

A = 93 – 100%	I = Incomplete
B = 85 – 92%	WP = Withdrawal while Passing
C = 77 – 84%	WF = Withdrawal while Failing
D = 69 – 76%	P = Passing
F = Below 69%	MX = Medical Excuse

The final grade in all full year courses is the average of all four academic quarters (at a value of 22.5% each quarter), and the final exam (which carries a weight of 10%) to equal 100% of the grade.

If a student withdraws from a course for any reason prior to its completion, a grade of WP or WF will be given based upon actual academic progress in the course at the time of withdrawal. This grade will be reflected on the transcript.

**Quality Point Average and Rank**

Quality Point Average (QPA) is computed on a weighted scale, using letter grades earned in all courses in the high school. Quality Point Average determines a student's rank in class, is cumulative from year to year and appears on a student's transcript. Courses are assigned levels for QPA purposes as follows:

- Level 1: Regular and Basic Courses
- Level 2: Honor Courses and Approved College courses
- Level 3: Advanced Placement

The following point scale is used to compute QPA:

Grade	Reg(Lev1)	Hon(Lev 2)	AP(Lev 3)	
A+	4	5	5.5	
A	4	5	5.5	
A-	3.67	4.67	5.17	
B+	3.33	4.33	4.83	
B	3	4	4.5	
B-	2.67	3.67	4.17	
C+	2.33	3.33	3.83	
C	2	3	3.5	
C-	1.67	2.33	2.67	
D+	1.33	1.67	1.83	
D	1	1	1	
D-	0.67	0.67	0.67	
F	0	0	0	

## **Course Failure**

Students must pass all courses required for graduation to earn credit. If a student fails a course, the course may be repeated during the next school year or it may be remediated in an approved remediation program, either at North East School District or at another accredited school district. Course remediation requirements are as follows:

1.0 credit = 120 hours of instruction      *Remediation must equal 60 hours of instruction*  
0.5 credit = 60 hours of instruction      *Remediation must equal 30 hours of instruction*

Information regarding district approved remediation options (summer school) is mailed home at the end of each school year. Students may also be tutored privately to remediate failed coursework. Private tutors must be certified teachers approved by the principal. All financial arrangements for private tutoring take place directly between the student's family and the tutor. A formal signed statement indicating the subject, dates, and total hours of the actual remediation, outline of topics covered, and grade given, will be submitted to the principal at the conclusion of the coursework. The course, grade, and assigned credit will then be added to the student's transcript.

## **Special Programs**

### **1. Advanced Placement Courses**

North East High School students have the opportunity to complete college-level courses at the secondary level and may obtain college credit and/or advanced placement through the Advanced Placement Program (College Board). Students enrolled in Advanced Placement courses may elect to take an Advanced Placement Exam for the subject(s) in which they are enrolled. There is a fee for each exam. Exams consist of a multiple choice and free response sections. Every examination receives an overall grade on a 5-point scale:

- 5-Extremely well qualified
- 4-Well qualified
- 3-Qualified
- 2-Possibly qualified
- 1-No recommendation

Students send the grades received on the exams to colleges and universities nation-wide. Each college decides which AP Exam score it will accept for credit and/or advanced placement. Many institutions accept scores of "3" and above, which is the recommendation of the American Council on Education (ACE).

North East High School offers Advanced Placement courses in the following:

- English Language (English 11 AP)
- English Literature (English 12 AP)
- European History
- American Government
- Chemistry II
- Calculus AB (Calculus AP)
- Physics II



## **2. Honors Courses**

North East High School students have the opportunity to enroll in Honors courses, which provide a rigorous academic experience. Students enrolling in Honors classes should have a “B” average or better in the subject area. The pace is accelerated and the workload is demanding.

North East High School offers the following Honors courses:

Earth and Environmental Science Honors  
Algebra I Honors  
Algebra II Honors  
American History II Honors  
Biology 10 Honors  
Calculus Honors  
Chemistry I Honors  
Contemporary World Cultures Honors  
Dissection of Life Honors  
English 9, 10, 11, 12 Honors  
French III, IV  
Spanish III, IV  
Human Anatomy and Physiology Honors  
Modern Geometry Honors  
Organic/Biochemistry Honors  
Physics I Honors  
Pre-Calculus Honors  
Principles of Democracy Honors  
Probability and Statistics Honors  
Trigonometry and Advanced Math Honors  
Western Civilization Honors

## **3. College Course prerequisites**

In order for students to request enrollment in any of the dual enrollment programs supported by North East High School students must meet the guidelines below for consideration for entry in the program.

1. Only students who are proficient on the Literature, Algebra and Biology Keystone can replace English 10, English 11, English 12 or any math or science class with a college course.
2. Students who enroll in dual enrollment programs for their senior year must be proficient on the Keystone as juniors or they will be removed from the dual enrollment program prior to the start of their senior year.
3. When the student's college schedule creates unscheduled blocks at NEHS, students must either enroll in courses here, audit courses here, or perform an approved unpaid community service assignment either in or out of NEHS.

#### **4. Academic Awards Program**

Each department in the school awards academic certificates to one outstanding student and three commendable students in all subjects taught. These awards are distributed during a formal awards ceremony at the end of the academic year. The recipients are determined utilizing the following criteria:

1. Academic performance in the subject area during the current school year.
2. In case of a tie, subtest scores on the most recent standardized test are used.

Senior awards for outstanding achievement are given to one senior in every department who has the highest cumulative grade average in that department's course offerings over the four years of high school. In addition to a certificate, the senior's name is engraved on a brass plate and attached to the department's walnut plaque, which is displayed in the gym/auditorium lobby.

#### **5. Academic Letters**

Students who excel in their honors and academic coursework, academic extracurricular activities and standardized test scores may receive an academic letter. To receive an academic letter, students must earn a pre-determined number of points based on grades, standardized test scores, rank, and individual academic awards. Students may apply for the letter during the second semester each year beginning in 10<sup>th</sup> grade. Letters are awarded during the spring of each year.

#### **6. National Honor Society**

In the second semester, all sophomores and juniors who have a cumulative 3.5 grade point average will be invited to apply for membership in the North East High School chapter of the National Honor Society. Using a point scale, a faculty committee then reviews each application for performance in four areas: academics, leadership, character, and service.

A late spring induction ceremony takes place at the school. Students who have been inducted into the NHS remain members unless their GPA drops, they fail to meet the community service requirements or they have been involved in any serious disciplinary action.

#### **7. Honor Roll**

Honor roll recognition at North East High School is determined by all grades received for all courses each quarter. All students have an equal opportunity for local recognition, regardless of their course levels. Honor Roll is offered at two levels: High Honors and Honors. The student must meet one of the following requirements to qualify:

- High Honors: All "A's"
- Honors: All "A's" and "B's"

#### **8. College Athletics-NCAA**

Playing a sport for a Division I or Division II college/university team takes more than just skill on the court or field – high school academics play a major role in your ability to be recruited by a D1 or D2 athletic team. One aspect of athletic eligibility is a student's core grade point average, determined by NCAA approved core courses, and a student's SAT/ACT scores. High School students interested in playing on the D1 or D2 level should make their intentions known to both their coach and their school counselor. Registration with the NCAA Eligibility Center ([www.eligibilitycenter.org](http://www.eligibilitycenter.org)) in your junior or senior year of high school is also necessary. Prospective college athletes are encouraged to visit the Eligibility Center website for additional information. The Eligibility Center website has a list of North East High School's NCAA approved core courses—core courses are also identified in this catalogue (NCAA).

Please note-It is the students responsibility to track their own approved NCAA courses. Students attending the Erie County Technical School must pay close attention to their NCAA core course credit requirements, as your overall earned NEHS credits are reduced. Students who fail a course(s) must make a careful plan for remediation. NEHS school counselors will assist with tracking NCAA courses if requested.

## Glossary

### **Advanced Placement Courses (AP):**

These courses, always designated by the letters AP, refer to college-level courses taught according to the syllabi prescribed by the College Board Advanced Placement program. AP courses are rigorous in nature. Successful performance on the AP exam may lead to college credit and/or advanced placement on the college level. For more information visit [www.collegeboard.org](http://www.collegeboard.org). AP courses are level 3 in the computation of QPA and class rank.

### **Basic Courses:**

Basic courses are required courses in major subject areas for students who are designated as learning support (IEP).

### **Course Sequence:**

A course sequence is the preferred progression of courses in a single department, from the beginning level to the more advanced, which a student is advised to take in preparing his/her schedule from year to year. Course sequences are listed at the beginning of each department's outline of courses.

### **Credits:**

One credit is earned upon successful completion (passing grade) of a full year course (120 hours of instruction). One-half credit is earned for the successful completion of a semester-long course (60 hours of instruction).

### **Elective course:**

Electives are courses that students choose to take. By definition, they are not required. North East High School students are required to take nine credits of electives, two of which must be in the area of Arts and Humanities and .5 of Intro to Computers.

### **Honors (H) Courses:**

Honors courses provide a solid foundation for admissions to most colleges and universities. As the name implies, the pace is accelerated and the workload is demanding. Honors courses are level 2 courses in the computation of GPA and class rank.

### **Prerequisite:**

A prerequisite is a course or a requirement that a student must complete in order to qualify for entry into another course. For example, before students can take Painting I, they must successfully complete Studio I.

### **Regular Courses:**

Regular courses (courses not designated honors or AP) prepare students to meet graduation requirements, seek immediate employment after high school, enter the military, or to further their education. The pace accommodates the individual needs and abilities of the average student. These are level 1 courses in the computation of QPA and class rank.

### **Required course:**

A required course is one which must be taken by all students to receive a North East High School diploma. Please refer to the graduation requirement section of this catalog.

### **Semester:**

A semester is half of a school year and includes two of the four marking periods. Many elective courses are one semester in length. Semester 1 begins in late August or September and ends in mid/late January. Semester 2 ends in June.

## ENGLISH SEQUENCES

### Regular

<b>Grade</b>	<b>Subject</b>
9	English
10	English
11	English
12	English

### Honors

<b>Grade</b>	<b>Subject</b>
9	English Honors
10	English Honors
11	English Honors
12	English Honors

### Advanced Placement Sequence

<b>Grade</b>	<b>Subject</b>
9	English Honors
10	English Honors
11	English Advanced Placement
12	English Advanced Placement

### Electives

<b>Grade</b>	<b>Subject</b>
9-12	Creative Writing I
10-12	Creative Writing II
9-12	Dramatic Performance I
10-12	Dramatic Performance II
9-12	Journalism I
10-12	Journalism II
9-12	Oral Communications I
10-12	Oral Communications II
10-12	Publications Seminar I
11-12	Publications Seminar II

## ENGLISH DEPARTMENT

Course Title: **ENGLISH 9-NCAA**  
Grade/Course #: 9 (0020)  
Course Length: Full year (One credit)

**Description:** The focus of this course is to develop vocabulary, to review the fundamentals of grammar and usage, to enhance writing skills, and to introduce students to basic literary types such as the short story, the novel, the epic and drama. Library skills are reviewed to promote effective library usage.

Course Title: **ENGLISH 9 HONORS-NCAA**  
Grade/Course #: 9 (0025)  
Course Length: Full year (One credit)

**Description:** The honors course focuses in greater depth on grammar/usage, composition, literature, and vocabulary. The writing component stresses the development of informative, descriptive, and narrative paragraphs. The study of literature includes an understanding of the elements of basic literary forms. Library skills are reviewed to promote effective library usage.  
Prerequisite: "B" average in Eighth Grade English or teacher recommendation.

Course Title: **ENGLISH 10-NCAA**  
Grade/Course #: 10 (0030)  
Course Length: Full year (One credit)

**Description:** The main emphasis in this course is to study world authors and enhance skills in reading comprehension and analysis. Vocabulary development through reading fiction and non-fiction is stressed and accompanied by formal vocabulary study. The writing process is exercised and complemented by grammar instruction.

Course Title: **ENGLISH 10 HONORS-NCAA**  
Grade/Course #: 10 (0035)  
Course Length: Full year (One credit)

**Description:** Included in this course is a survey of world literature with an attempt to correlate reading with geography and history. The structure and critical analysis of short stories, novels, essays and plays are studied with an emphasis on novels. Challenging vocabulary is also studied through the use of a vocabulary book for the college bound. Paragraph development and formal essay writing are accompanied by grammar instruction. This course also includes an introduction to research techniques and the construction of a limited research paper.  
**Summer reading is required.**

Course Title: **ENGLISH 11-NCAA**  
Grade/Course #: 11 (0040)  
Course Length: Full year (One credit)

**Description:** This course is primarily a survey of American literature from colonial to modern times. The writing process emphasizes the development of analytical, grammatical, research, and vocabulary skills.

Course Title: **ENGLISH 11 HONORS-NCAA**  
Grade/Course #: 11 (0045)  
Course Length: Full year (One credit)

**Description:** Designed to prepare students for college, this course covers the effects of changing social conditions and philosophies on the various literary genre (short story, essay, novel, drama, and poetry) represented in American literature. Emphasis is on vocabulary development, effective research, precise composition, and appropriate language usage. Extensive reading and writing are required.  
**Summer reading is required.**

Course Title: **ENGLISH 11 ADVANCED PLACEMENT-NCAA**

Grade/Course #: 11 (0044)

Course Length: Full year (One credit)

**Description:** Designed for the exceptional student in English, this course provides students experiences and intensive instruction in prose reading and writing that will encourage motivated students to become skilled readers and writers. Students will be able to distinguish a writer's purpose, audience expectations, and subjects as well as the way language conventions and the structures of language contribute to meaning. Students must be capable of independent study and research on a college level. This course prepares students to take the AP Language and Composition examination. Advanced placement exams are given upon request. This course has been authorized by the College Board to use the "AP" designation.

Prerequisite: Honors or teacher recommendation.

**Summer reading is required.**

Course Title: **ENGLISH 12-NCAA**

Grade/Course #: 12 (0050)

Course Length: Full year (One credit)

**Description:** This course is designed to guide students through a brief survey of historically significant British Literature from Anglo-Saxon times to the present in the genres of poetry, novel, short story, drama, and essay. New vocabulary is developed and grammatical concepts are reviewed. Emphasis is placed on making connections between literary selections and modern life. Individual reading and writing are required.

Course Title: **ENGLISH 12 HONORS-NCAA**

Grade/Course #: 12 (0055)

Course Length: Full year (One credit)

**Description:** Designed to prepare students for college, this course surveys historically significant British Literature from Anglo-Saxon times to the present in the genres of poetry, novel, short story, drama, and essay. While new vocabulary is developed and grammatical concepts are reviewed, emphasis is placed on thinking critically about literature, developing advanced writing skills, and understanding how various historical events and writing styles relate, impact, and foreshadow literary movements. Extensive individual reading, writing and research are required.

**Summer reading is required.**

Course Title: **ENGLISH 12 ADVANCED PLACEMENT-NCAA**

Grade/Course #: 12 (0065)

Course Length: Full year (One credit)

**Description:** Designed for the exceptional student in English. This course includes a one semester survey of British literature from the Old English period through the Renaissance and the second semester focuses on the literary development of the short story and novel in contemporary literature. Extensive reading and writing are required; therefore, students must be capable of independent study and research on a college level. Advanced Placement examinations are given upon request. This course has been authorized by the College Board to use the "AP" designation.

Prerequisite: Honors or AP

**Summer reading is required.**

## ELECTIVES

Course Title: **CREATIVE WRITING I-NCAA**

Grade/Course #: 9, 10, 11, 12 (0046)

Course Length: Semester (.5 credit)

**Description:** This introductory course offers a guided approach to various forms of writing. The basic areas of concentration include scriptwriting, narrative writing, the personal essay, and poetry. The course functions as a seminar in which students share and self-assess their own works in addition to discussing and assessing the written works of their peers. Those who enroll should possess strong basic writing skills, particularly in regard to grammar and usage.

Course Title: **CREATIVE WRITING II**

Grade/Course #: 10, 11, 12 (0056)

Course Length: Semester (.5 credit)

**Description:** This course provides a forum in which students meet as a community of interested writers. Here, students investigate the writing process, examine the craftsmanship of published writers, and experiment with various writing techniques while developing their own personal style and voice. Using the multi-tiered writing process, students compose both prose and verse works intended for publication.

Course Title: **ORAL COMMUNICATIONS I-NCAA**

Grade/Course #: 9, 10, 11, 12 (0047)

Course Length: Semester (.5 credit)

**Description:** Students will prepare and present a variety of speeches designed to practice delivery techniques. Students will study vocal, verbal, non-verbal message to enhance communication skills. This course develops student awareness of the importance of communication.

Course Title: **ORAL COMMUNICATIONS II**

Grade/Course #: 10, 11, 12 (0057)

Course Length: Semester (.5 credit)

**Description:** This course further develops oral communication skills and behaviors learned in Oral Communications I. Students will prepare and present complex speeches which are researched based.

Prerequisite: Oral Communications I

Course Title: **PUBLICATIONS SEMINAR I**

Grade/Course #: 10, 11, 12 (0068)

Course Length: Full year (One credit)

**Description:** Publications seminar is a year long class for students in grades 10, 11 and 12 who serve as first year designers of the North East High School yearbook. Students will produce this publication using current professional journalism methods and state-of-the-art desktop publishing software. Individual work will be evaluated using performance-based authentic assessment procedures. Courses such as Journalism I, creative writing, photography, drafting, and computer applications provide a background for this class. Students are required to participate in an advertising campaign for the yearbook.

Prerequisite: Completed application, faculty review, and an interview.

Course Title: **PUBLICATIONS SEMINAR II**

Grade/Course #: 11, 12 (0078)

Course Length: Full year (One credit)

**Description:** Publications Seminar II is a year long workshop class for students in grades 11 and 12 who have successfully completed Publications Seminar I. Students will provide leadership in such positions as editor-in-chief, assistant editor, photography editor, business manager, etc., to produce the official North East High School yearbook. Editorial positions are competitive based on a portfolio, essay, and interview. This class is scheduled with the Publications Seminar I students. Students in this section will be responsible for content of the yearbook as well as provide funding for the publication using current advertising and marketing techniques.

Prerequisite: Successful completion of Publications Seminar I or teacher recommendation.

Course Title: **JOURNALISM I-NCAA**

Grade/Course #: 9, 10, 11, 12 (0061)

Course Length: Semester (.5 credit)

**Description:** This course covers basic news gathering, writing, editing, and interviewing techniques. Areas of emphasis include leads, straight news, features, and editorials. Students will also learn the basics of headline writing, proofreading, The First Amendment, the ethical responsibilities of journalists and the guidelines for gathering information and writing an accurate news story.

Course Title: **JOURNALISM II**  
Grade/Course #: 10, 11, 12 (0071)  
Course Length: Semester (.5 credit)

**Description:** Journalism II is a class devoted to developing a writer's skills and his/her awareness of American media. Students will work as a class to design, write, and publish a variety of school newsletters. The goal of each newsletter will be to organize and produce an informative source of print media that creates a forum of discussion among the student body and faculty at NEHS.  
Prerequisite: Journalism I and/or teacher recommendation.

Course Title: **DRAMATIC PERFORMANCE I**  
Grade/Course #: 9, 10, 11, 12 (0048)  
Course Length: Semester (.5 credit)

**Description:** This course introduces the students to physical elements of the stage, voice and diction, nonverbal communication, improvisation and a series of beginning acting experiences. Students will study drama through the textbook as well as through acting experiences on the school stage. Participants in this class will prepare and present a variety of performances; students will be required to memorize short and long scenes, as well as a one act play. In addition, there will be written homework, quizzes, tests and a written final exam.

Course Title: **DRAMATIC PERFORMANCE II**  
Grade/Course #: 10, 11, 12 (0049)  
Course Length: Semester (.5 credit)

**Description:** This course is designed for the advanced drama student. Having learned the fundamentals of theater and acting in **Dramatic Performance I**, students will extend their acting experiences with longer, more complicated plays. They will also write, produce and direct their own plays, create their own sets, and perform for live audiences.  
Prerequisite: Students must have earned at least a B in Dramatic Performance I.

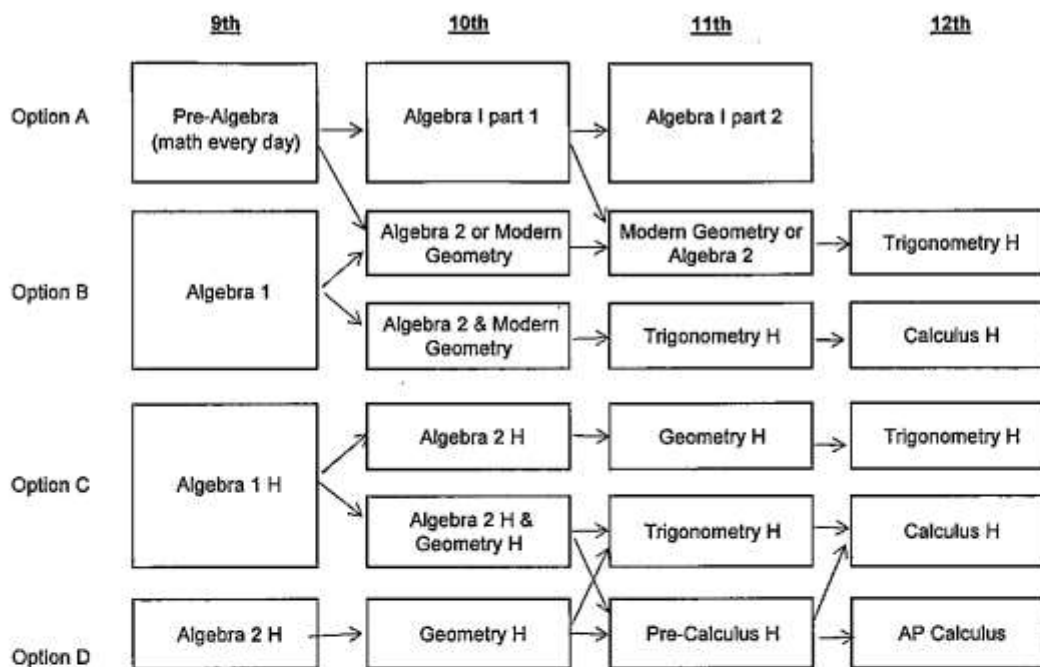
***The course below is not an elective; students are placed in this class by the principal or the school counselor when warranted based on teacher recommendation, test scores and grades.***

Course Title: **ACADEMIC LITERACY**  
Grade/Course #: 9, 10, 11, 12 (0023)  
Course Length: Semester (.5 credit)

**Description:** This course provides academic support and monitoring for students who need additional assistance in learning strategies or transition to high school. It also provides individualized monitoring of students' course work as well as individual and small group tutoring. **Students are placed in this class by recommendation of the principal and school counselor.** This course can be taken two consecutive semesters based on need.



### MATHEMATICS SEQUENCES



Electives	
Grade	
10, 11, 12	SAT Prep
11, 12	Probability & Statistics
9, 10, 11, 12	The Math of Music
10, 11, 12	Computer Programming

\*A student from the Option A sequence who achieves Proficient or higher on the PA Algebra I Keystone Exam should continue to regular Algebra 2 or Geometry.

\*Students in 10th or 11th grade who have not yet achieved Proficient or higher on the Keystone Exam *must* take Algebra I part 1 or part 2. These students may also consider doubling this course with Algebra 2 or Modern Geometry.

\* Students scheduling for their sophomore year will only be permitted to take Algebra 2 and Modern Geometry if they have achieved Proficient or higher on the state Keystone Exam.

#### Recommended Progression of Mathematics

Grade	Option A	Option B (1)	Option B (2)
9	Pre-Algebra*	Algebra I	Algebra I
10	Algebra I part 1	Algebra II	Alg II & Geometry
11	Algebra I part 2	Geometry	Trigonometry
12		Trigonometry	Calculus

Grade	Option C (1)	Option C (2)	Option D
9	Algebra I H	Algebra I H	Algebra II H
10	Algebra II H	Alg II H & Geom H	Geometry H
11	Geometry H	Acc Trigonometry	Acc Trigonometry
12	Trigonometry	Calculus AP	Calculus AP

\* This course will be both A and B day and it will be worth 2 graduation math credits.

## MATHEMATICS DEPARTMENT

Course Title: **PRE-ALGEBRA**

Grade/Course #: 9 (1130)

Course Length: Full year, A and B Day (Two credits)

**Description:** This course is designed for those students who are unable to maintain the pace of a standard one-year Algebra I course. All of the same topics will be included, plus an emphasis on building basic math skills needed for success in Algebra I. Topics covered include integers, rational and irrational numbers, linear relations and functions, linear equations and inequalities, polynomial operations and factoring, exponential operations, some probability and statistics topics.

Course Title: **ALGEBRA I-NCAA**

Grade/Course #: 9, 10, 11, 12 (1123)

Course Length: Full year (One credit)

**Description:** This course is concerned with the study of systematic ways for solving problems. Topics include integers, rational and irrational numbers, working with linear relations and their representations, polynomial operations, factoring and topics from probability and statistics. Prerequisite: "C" or better in previous math class or teacher recommendation.

Course Title: **ALGEBRA I HONORS-NCAA**

Grade/Course #: 9 (1124)

Course Length: Full Year (one credit)

**Description:** This course is concerned with the study of systematic ways for solving problems. Topics include integers, rational and irrational numbers, working with linear relations and their representations, polynomial operations, factoring and topics from probability and statistics. Topics will be covered in greater breadth and depth in the honors course.

Course Title: **ALGEBRA I PART 1**

Grade/Course #: 10, 11 (1127)

Course Length: Full year (One credit)

**Description:** This course is for the student who has successfully completed Applied Algebra I but still has not attained proficiency on the PA Algebra I Keystone Exam. Topics covered will continue with problem solving skills encountered in Applied Algebra I. They include solving linear equations and inequalities, solving and graphing systems of equations, work with rational and irrational numbers, polynomial operations and factoring, and probability and statistics topics. Prerequisite: Pre-Algebra and Basic or Below Basic on the Algebra I Keystone, or recommendation from 9<sup>th</sup> grade teacher.

Course Title: **ALGEBRA II-NCAA**

Grade/Course #: 10, 11, 12 (1139)

Course Length: Full year (One credit)

**Description:** This course provides a continuation and further refinement of problem solving skills encountered in Algebra I. Topics discussed include linear and quadratic relations, factoring, graphing, radicals, exponents, matrices and topics from probability and statistics. Prerequisite: Grade "C" or better in Algebra I

Course Title: **ALGEBRA II HONORS-NCAA**

Grade/Course #: 9, 10 (1138)

Course Length: Full year (One credit)

**Description:** This course provides a continuation and further refinement of problem solving skills encountered in Algebra I. Topics discussed include linear and quadratic relations, factoring, graphing, radicals, exponential and logarithmic functions, matrices and topics from probability and statistics in greater breadth and depth than the regular Algebra II course.

Prerequisite: Grade "B" or better in Algebra I - 8 or Grade "B" in Algebra I or teacher recommendation.

Course Title: **ALGEBRA I PART 2**

Grade/Course #: 10, 11 (1140)

Course Length: Full year (One credit)

**Description:** This course is designed for students who have successfully completed Applied Algebra, but still have not attained proficiency on the PA Algebra I Keystone Exam. Topics covered include: operations with real numbers and expressions, linear equations and inequalities, functions, coordinate geometry and data analysis.

Prerequisite: Pre-Algebra and basic or below basic on the Algebra 1 keystone or teacher recommendation.

Course Title: **MODERN GEOMETRY-NCAA**

Grade/Course #: 10, 11, 12 (1137)

Course Length: Full year (One credit)

**Description:** This course is designed to study the formal structure of geometry. Topics covered include deductive reasoning, angles, segments, congruent triangles, parallelism, transformations, similarity, circles, and polygons. Emphasis is placed upon the use of precise language in the statement of definitions, postulates and theorems. A major objective of the course is to develop the ability of the student to reason creatively and critically in both mathematical and non-mathematical situations. Modern Geometry may be studied simultaneously with Algebra II

Prerequisite: "C" or better in Algebra I or teacher recommendation.

Course Title: **MODERN GEOMETRY HONORS-NCAA**

Grade/Course #: 10, 11 (1136)

Course Length: Full year (One credit)

**Description:** This course is designed to study the formal structure of geometry. Topics covered include deductive reasoning, angles, segments, congruent triangles, parallelism, transformations, similarity, circles, and polygons. Emphasis is placed upon the use of precise language in the statement of definitions, postulates and theorems. A major objective of the course is to develop the ability of the student to reason creatively and critically in both mathematical and non-mathematical situations.

Prerequisite: "B" or better in Algebra or "B" in Algebra I or teacher recommendation.

Course Title: **TRIGONOMETRY AND ADVANCED MATH HONORS-NCAA**

Grade/Course #: 11, 12 (1153)

Course Length: Full year (One credit)

**Description:** The trigonometry section of this course will last approximately one semester. It includes the theoretical aspects of trigonometry as well as problem solving. The remainder of the course covers topics in advanced algebra, analytic geometry, matrices, and the theory of equations.

Prerequisite: Grade "C" or better in Algebra II and Geometry or teacher recommendation.

Course Title: **PRE-CALCULUS HONORS-NCAA**

Grade/Course #: 11, 12 (1154)

Course Length: Full year (One credit)

**Description:** The trigonometry section of this course will last approximately one semester. It includes the theoretical aspects of trigonometry as well as problem solving. Topics for the remainder of this course include advanced algebra, analytic geometry, and the theory of equations. There is also an in depth study of limits from a graphical, numerical, and algebraic approach. This course is designed for the student who intends to take AP Calculus.

Prerequisite: B or better in Modern Geometry H and Algebra II H or teacher recommendation.

Course Title: **CALCULUS HONORS-NCAA**

Grade/Course #: 12 (1160)

Course Length: Full year (One credit)

**Description:** This course is for any student planning to go to college. It will cover derivatives, integrals and their applications. It is for the student who desires an introduction to Calculus.

Prerequisite: "C" or better in Trigonometry/Pre-Calculus or teacher recommendation.

Course Title: **CALCULUS ADVANCED PLACEMENT-NCAA**

Grade/Course #: 12 (1163)

Course Length: Full year (One credit)

**Description:** This course is designed to meet the needs of the student who will take the Calculus A.P. Exam. The derivative and integral will be covered from graphical, numerical, and algebraic approaches. Application problems and free response questions will be studied in detail.

Prerequisite: "B" or better in Pre-Calculus or teacher recommendation.

Course Title: **PROBABILITY AND STATISTICS HONORS-NCAA**

Grade/Course #: 11, 12 (1455)

Course Length: Semester (.5 credit)

**Description:** This course will explore the concepts and processes used in analyzing data and in evaluating statistical claims about such. Data will be drawn from a variety of areas such as business, social sciences mathematics, science, medicine and education.

Prerequisite: Algebra I or teacher recommendation.

Course Title: **SAT PREP**  
Grade/Course #: 10, 11, 12 (1405)  
Course Length: Semester (.5 credit)

**Description:** This course will help prepare the students to earn the best possible score they are capable of achieving on PSAT/SAT/ACT tests. The class will become familiar with the purpose of the tests, their design and strategies for answering the types of questions encountered. Time will also be devoted to college exploration.

**Course can only be taken by 10<sup>th</sup> graders who are currently taking geometry.**

Course Title: **THE MATH OF MUSIC I**  
Grade/Course #: 9, 10, 11, 12 (1460)  
Course Length: Semester (.5 credit)

**Description:** This course will explore the math and structure associated with music. The focus will be on reading music, learning the key signatures utilizing the circle of 5ths and the circle of 4<sup>th</sup>. There will be a focus on the Major Scales and simple open chord structures. Students will apply the concepts learned to the guitar. No previous experience is necessary. However, the student is required to bring a guitar for each class period.

Course Title: **THE MATH OF MUSIC II**  
Grade/Course #: 10, 11, 12 (1461)  
Course Length: Semester (.5 credit)

**Description:** This course will explore in more depth the math and structure associated with music. Students will study Minor Scales and Modes. Advanced chord structures. Students will apply the concepts learned to the guitar. Previous experience is necessary. The student is required to bring a guitar for each class period.

**Prerequisite:** Math of Music: C or Better or teacher recommendation. The student **MUST** be able to read notes in the Treble Clef

## SCIENCE SEQUENCE

<u>Grade</u>	<u>Regular Course Track</u>
9	Earth & Environmental Science
10	Biology (required for graduation)
11 & 12	<i>Students can choose from the following:</i> Applied Chemistry Chemistry I Physical Science

<u>Grade</u>	<u>Honors Course Track</u>
9	Earth and Environmental Science Honors
10	Biology or Biology Honors is a required science for sophomores Honors track students are permitted to also take Chemistry I (regular or honors). You must have teacher permission to take both honors Bio and honors Chem.
11 & 12*	<i>Students can choose from the following:</i> Chemistry R or H Chemistry II AP Physics I (must have taken and passed or be co-enrolled in Trig/pre-calc) Physics II AP Organic Biochemistry Honors Human Anatomy & Physiology Honors Dissection of Life Honors

\*Students can double and triple up in science with teacher recommendation

***Any member of the class of 2022 who does not score proficient or higher on the Biology Keystone Exam must demonstrate competence on a district approved assessment or meet another requirement of PDE graduation criteria.***

## SCIENCE DEPARTMENT

Course Title: **EARTH AND ENVIRONMENTAL SCIENCE-NCAA**

Grade/Course #: 9 (2220)

Course Length: Full year (one credit)

**Description:** This course covers the concepts and principles associated with earth science and the environment. It is designed to provide the basic scientific skills necessary to advance to further courses of study in science. The student will study many of the major areas of earth science including metrics, geology, mineralogy, petrology, meteorology, earth history, plate tectonics, geologic mapping and ecology. Laboratory exercises and activities are a major part of the course curriculum.

Course Title: **EARTH AND ENVIRONMENTAL SCIENCE HONORS-NCAA**

Grade/Course #: 9 (2221)

Course Length: Full year (One credit)

**Description:** This course covers the concepts and principles associated with earth science and the environment. The course of study is the same as general earth science and the environment, but the pacing and material is adapted to suit the needs of the accelerated student. Topics covered include metrics, geology, mineralogy, petrology, meteorology, earth history, plate tectonics, geologic mapping and ecology. A major emphasis is placed on laboratory work and projects.

**Prerequisite:** Teacher recommendation required

Course Title: **BIOLOGY-NCAA**

Grade/Course #: 10 (2230)

Course Length: Full year (One credit)

**Description:** This course covers the basic concepts and principles associated with the natural or life sciences. Included in this course are a discussion of the fundamentals of methodology used in science as well as metric measurement and microscopy. Selected unit topics discussed include but are not limited to cell structure and function, biochemistry, genetics, DNA structure and function, disease and immunity, and protein synthesis. Included is also a comprehensive examination of the six taxonomic kingdoms of living organisms. Emphasis is placed on the anatomy and physiology as well as the inter-relationships that all living organisms possess. Laboratory exercises are included as a supportive and supplemental activity throughout the course.

Course Title: **BIOLOGY HONORS-NCAA**

Grade/Course #: 10 (2235)

Course Length: Full year (One credit)

**Description:** This course covers the basic concepts and principles associated with the natural or life sciences. The course content is essentially the same as general Biology, but pacing is adapted to suit the needs of the honors student. Therefore, topics will be more thoroughly explored through lab based activities and with greater emphasis to detail.

**Prerequisite:** Teacher recommendation

Course Title: **DISSECTION OF LIFE HONORS**

Grade/Course #: 11, 12 (2236)

Course Length: Full year (One credit)

**Description:** This purpose of this course will be a continuation of the Biology I course offered to all tenth graders. This course will focus on the study of the kingdoms of life (Bacteria, Protists, Fungi, Animals, and Plants). The course will begin with a review of the characteristics of living things and use of the microscope. Classification of living things (taxonomy) will then be covered followed by a study of the kingdoms of life. This is a lab-based course focused on dissection. Students signing up for the course should be interested and willing to dissect.

**Prerequisite:** C or better in Biology

Course Title: **CHEMISTRY I-NCAA**

Grade/Course #: 10, 11, 12 (2241)

Course Length: Full year (One credit)

**Description:** This course covers the basic principles of chemistry encompassing a study of science and matter in general. Specific emphasis on atomic structure and chemical bonding leads to a study of the composition, structure, and changes of matter. The main mathematical concepts relate to chemical compounds and chemical equations. A brief treatment of solids, liquids, gases, and solutions leads into an application of chemistry to practical situations. Laboratory exercises are included as a supportive and supplemental activity throughout the course.

Course Title: **CHEMISTRY I – HONORS-NCAA**

Grade/Course #: 10, 11 (2242)

Course Length: Full year (One credit)

**Description:** This course covers the basic principles of chemistry encompassing a study of science and matter. The course content is essentially the same as general Chemistry I, but material and pacing are adapted to suit the needs of the honor student. A much greater emphasis to detail and labs will be included.

Course Title: **APPLIED CHEMISTRY**

Grade/Course #: 11,12 (2246)

Course Length: Full year (One credit)

**Description:** This course is designed for the non-collegiate student. The goal of this course is to give students an appreciation of the contributions and applications of chemistry. Concepts will be presented in a less mathematical approach than in the Chemistry I course. The main focus of this course is the application of chemical principles to everyday life, particularly to areas which affect people on a personal as well as global scale. The structure, properties, and changes of matter around us will be explored using a hands-on approach. Students will learn enough of the chemical theory and language to approach practical problems from a scientific perspective. Class participation in the form of questions and discussion is strongly encouraged.

Course Title: **PHYSICAL SCIENCE-NCAA**

Grade/Course #: 11, 12 (2240)

Course Length: Full year (One credit)

**Description:** This course is designed for the non-college student. The goal of this course is to give the students an appreciation of the contributions and applications of physics to the everyday world. Concepts will be covered in a less mathematical approach than the Physics I Honors course. The focus of the course will be the study of, Forces, Motion, Energy, Electricity and Magnetism, Thermal Systems, & Geometric Optics. This course will incorporate hands-on applications to the conceptual knowledge for each topic.

Course Title: **PHYSICS I HONORS-NCAA**

Grade/Course #: 11, 12 (2243)

Course Length: Full year (One credit)

**Description:** This course is designed to give the students an understanding of matter and energy and their transformations through applied mathematics. Areas of study include Motion, Force, Energy, States of Matter, Fluid Mechanics, and Thermodynamics. The course will include inquiry based labs to compliment the theoretical study of each topic. Students enrolled in this course need to have a strong mathematical background.

**Prerequisite/Preferential seating:**

1. Juniors who have passed Biology and Chemistry, and who are co-enrolled in Trig or Pre-Calculus
2. Juniors who have passed Honors Biology, and who are co-enrolled in Trig/Pre-Calc and Chemistry
3. Seniors who have passed Chemistry and Trig/Pre-Calculus
4. Seniors and juniors who are co-enrolled in Trig/Pre-Calculus



Course Title: **CHEMISTRY II (ADVANCED PLACEMENT)-NCAA**

Grade/Course #: 11, 12 (2265)

Course Length: Full year (One credit)

**Description:** This course expands on the basic principles covered in Chemistry I. It extends into other applications of chemistry. Topics covered include; gas laws, acids, bases, salts, chemical kinetics, equilibrium, stoichiometry, concentrations of solutions, reduction-oxidation reactions, electrochemistry, quantitative and qualitative analysis. A comprehensive knowledge of the principles of Chemistry I is required.

**Prerequisite:** Chemistry I and teacher recommendation

Course Title: **PHYSICS II ADVANCED PLACEMENT-NCAA**

Grade/Course #: 12 (2253)

Course Length: Full year (One credit)

**Description:** This course is designed as a second year of study in Physics. The topics that are covered in this course include a review of the Physics I Topics in addition to, Electricity and Magnetism, Waves and Optics, and Atomic and Nuclear Physics. The course will include inquiry based labs to compliment the theoretical study of each topic. In addition the students will become familiar with the questioning and problem solving techniques that are commonly used on the Advanced Placement Exam.

**Prerequisite:** Students must have completed Physics I honors to enroll in this course.

Course Title: **ORGANIC/BIOCHEMISTRY HONORS-NCAA**

Grade/Course #: 11, 12 (2267)

Course Length: Full year (One credit)

**Description:** This course will consist of three quarters of organic chemistry and one quarter of biochemistry. Organic chemistry will consist of the naming of organic compounds using both the common methods as well as the I. U. P. A. C. styles. The course will also consist of the mechanisms that occur during reactions and finally the synthesis of organic compounds. The biochemistry component of the course will integrate the organic component with the basic functions of body functions such as DNA replication and protein synthesis to respiration. This course is strongly recommended to those interested into going into any science field in college as well as those going into medicine, chemistry, biology and biochemistry.

**Prerequisite:** Chemistry I and teacher recommendation

Course Title: **HUMAN ANATOMY AND PHYSIOLOGY HONORS-NCAA**

Grade/Course #: 11, 12 (2276)

Course Length: Full Year (One credit)

**Description:** This course is an anatomy and physiology course dealing with the physiological and anatomical components associated with the human organism. A review of the basic principles of chemistry and biology are covered prior to an *indepth* study of the human body. This course is designed to follow the anatomy and physiology courses offered at Mercyhurst North East associated with their nursing program. In addition, a long term detailed dissection of a higher vertebrate animal will be utilized for comparative anatomical purposes. This course is designed for those students who are endeavoring to follow a career in health related careers such as, but not limited to: Medicine, nursing, physical therapy, laboratory science, paramedic.... The student who selects this course should enjoy learning detailed information and processes relating to the human structure and function.

**Prerequisite:** Biology, teacher recommendation mandatory

Course Title: **ECOLOGY/ ENVIRONMENTAL SCIENCE-NCAA**

Grade/Course #: 11, 12 (2238)

Course Length: Full Year (One credit)

**Description:** This course introduces the student to the concepts involving the interactions that occur between living organisms and the physical habitats they live in. Factors that influence the natural balance of ecosystems are described and demonstrated through discussion and laboratory based curriculum. Topics such as biomass and energy flow through trophic levels, conservation, biogeochemical and nutrient cycles, pollution, natural selection, species diversity, and ecological succession will make up the foundation for this class.

**Prerequisite:** Earth and Space Science and Biology

Course Title: **APPLIED BIOLOGY**

Grade/Course #: 11, 12 (2232)

Course Length: Semester (.5 credit)

**Description:** This course is designed for those students in the class of 2019 and beyond who have not demonstrated proficiency on the Keystone Biology exam which is needed as a graduation requirement. The course will review those topics/anchors identified as weaknesses on the prior exam. In addition, students will complete a "Project-Based Assessment" for biology as part of the review process. Students who are enrolled in the Fall semester will retake the Biology Keystone Exam in January, those enrolled in the Spring semester will retake the Biology Keystone Exam in May.

Course Title: **COMPUTER SCIENCE DISCOVERIES**

Grade/Course#: 9-12 (2100)

Course Length: Semester (.5 credit)

**Description:** CS Discoveries is an introductory computer science course that empowers students to create authentic artifact and engage with computer science as a medium for creativity, communication, problem solving, and fun. CS Discoveries introduces students to tools and programming languages that are accessible for beginners while offering more advanced students opportunities to create sophisticated projects. Using the existing App Lab programming environment and the programming environment, Game Lab, students will be able to transition from blocks to typed code at their own pace while learning Javascript. Students will also develop maker skills through the study of the physical computing at a very accessible cost.

## SOCIAL STUDIES SEQUENCES

### Regular

<b>Grade</b>	<b>Subject</b>
9	American History II
10	Contemporary World Cultures
11	Western Civilization
12	Principles of Democracy

### Honors

<b>Grade</b>	<b>Subject</b>
9	American History II Honors
10	Contemporary World Cultures Honors
11	Western Civilization Honors
12	Principles of Democracy Honors

### Advanced Placement Sequence

<b>Grade</b>	<b>Subject</b>
9	American History II Honors
10	Contemporary World Cultures Honors
11	European History Advanced Placement
12	American Government and Politics Advanced Placement

### Electives

<b>Grade</b>	<b>Subject</b>
9, 10	Contemporary Issues
11, 12	Introduction to Psychology
10, 11, 12	Ethnic Conflict: An Ethical Crisis
9, 10, 11, 12	Medal of Honor
11, 12	Pennsylvania and Local History
9, 10, 11, 12	Street Law
9, 10, 11, 12	Turbulent Sixties
10, 11, 12	Women Who Changed the World

## SOCIAL STUDIES DEPARTMENT

Course Title: **AMERICAN HISTORY II-NCAA**

Grade/Course #: 9 (3320)

Course Length: Full year (One credit)

**Description:** The purpose of this course is to introduce the major phases of political, economic, social, geographical, and historical development of the United States after the Industrial Revolution. The students will study the basic principles under which America operates and the trends that have occurred in order to understand the present and the future.

Course Title: **AMERICAN HISTORY II HONORS-NCAA**

Grade/Course #: 9 (3325)

Course Length: Full year (One credit)

**Description:** The purpose of this course is to introduce the major phases of political, economic, social, geographical, and historical development of the United States after the Industrial Revolution. In this process the students will be required to demonstrate comprehension of the knowledge gained and apply this content through the utilization of higher order thinking skills. Essentially, the students will examine our nation's past to understand how it shaped, and continues to shape, the present and the future.

**Prerequisite:** Minimum of a 90% in previous social studies courses and/or teacher recommendation.

Course Title: **CONTEMPORARY WORLD CULTURES-NCAA**

Grade/Course #: 10 (3330)

Course Length: Full year (One credit)

**Description:** Contemporary World Cultures begins with basic concepts that define and constitute culture and man's cultural developments and achievements. Contemporary World Cultures will conclude with studies of specific cultural areas from around the world that illustrate the similarity and diversity of cultural characteristics such as: attitudes, beliefs, lifestyles, and explore the interactions and interdependence of these cultures worldwide.

Course Title: **CONTEMPORARY WORLD CULTURES HONORS-NCAA**

Grade/Course #: 10 (3333)

Course Length: Full year (One credit)

**Description:** Contemporary World Cultures Honors provides an in-depth study of various cultural areas, emphasizes the relevance of geographic concepts to human challenges, discusses the relationship between globalization and diversity, investigates the history, culture, economic, and political aspects of these regions. Discussion skills, written expression, research skills, and an awareness of world events and their impact on the history, both past and current, are integrated into the course content.

**Prerequisite:** Minimum of 90% in previous social studies courses and/or teacher recommendation.

Course Title: **WESTERN CIVILIZATION-NCAA**

Grade/Course #: 11 (3340)

Course Length: Full year (One credit)

**Description:** "Western Civilization" traces the conceptual development of mankind's progress in today's world beginning with the earliest known civilizations. The course will attempt to define those forces that have contributed to man's development through historical periods consisting of Ancient Civilizations, Medieval times, the Renaissance, and modern Europe.

Course Title: **WESTERN CIVILIZATION HONORS-NCAA**

Grade/Course #: 11 (3345)

Course Length Full year (One credit)

**Description:** This course will have the same scope and sequence as Western Civilization course, but the material will be covered faster and more in-depth. The students will be required to utilize higher-order thinking skills in various research projects as well as every day activities. The material covered ranges from Ancient Civilizations, the Middle Ages and the Renaissance through modern Europe.

**Prerequisite:** Minimum of 90% in previous social studies courses and/or teacher recommendation.

Course Title: **EUROPEAN HISTORY (ADVANCED PLACEMENT)-NCAA**

Grade/Course #: 11 (3365)

Course Length: Full year (One credit)

**Description:** The course covers the history of Europe from the Renaissance through the present, including an introduction, which covers ancient civilizations and the Middle Ages. Students not only learn factual historical information, but they analyze the political, economic, social and intellectual aspects of European history as well. A student may earn up to 3 college credits with successful completion of the advanced placement test. Advanced placement examinations are given upon request at the end of the year. The student must make an application for the course and is accepted on the recommendation of the instructor and the guidance counselor. All students and their parents must sign a contract indicating that they are aware of the advanced nature of the course.

**Prerequisite:** Minimum of a 90% in previous social studies courses and/or teacher recommendation.

Course Title: **PRINCIPLES OF DEMOCRACY (P.O.D)-NCAA**

Grade/Course #: 12 (3350)

Course Length: Full year (One credit)

**Description:** P.O.D. introduces students to the American system of government. Beginning with the foundations of government, this course encompasses the Executive Branch, Legislative Branch, and Judicial Branch as well as the rights and responsibilities of an American citizen. The U.S. political system is studied, including the electoral process, political parties, and the role of interest groups and public opinion. State and local government systems are also addressed.

Course Title: **PRINCIPLES OF DEMOCRACY HONORS-NCAA**

Grade/Course #: 12 (3351)

Course Length: Full year (One credit)

**Description:** The purpose of this course is to provide an in-depth study of the American system of government. Early political philosophies, charters, and constitutions are utilized to understand the framework for the foundation of government. Through independent research assignments, students work beyond the content as they analyze and evaluate current political policies and practices within the ideals set forth by America's founding members. Special emphasis is given to the system of checks and balances and how it directly relates to current issues facing the three branches of government. International relations through the American political agenda are focused on, as well.

**Prerequisite:** Minimum of a 90% in previous social studies courses and/or teacher recommendation.

Course Title: **AMERICAN GOVERNMENT AND POLITICS (ADVANCED PLACEMENT)-NCAA**

Grade/Course #: 12 (3375)

Course Length Full year (One credit)

**Description:** The course will examine the formal institutions, political participants and policy making process of the United States government. Students will evaluate each institution, its political leaders, the policies made by each institution and how each policy is influenced by the informal institutions such as interest groups, constituents, media etc; and the ultimate effect of such decisions upon the electorate. The students will ultimately be prepared to take an active role in the political process. To this end, students will read, interpret and respond critically to a variety of texts and documents chosen to increase their awareness. Advanced placement examinations are given upon request at the end of the academic year.

**Prerequisite:** Minimum of 90% in previous social studies courses and/or teacher recommendation.

Course Title: **CONTEMPORARY ISSUES-NCAA**

Grade/Course #: 9, 10 (3210)

Course Length: Semester (.5 credit)

**Description:** "What You Do Matters." These words from the United States Holocaust Memorial Museum sum up the theme of this course. This course will examine a variety of issues that are both global and personal. Topics studied will include those found in the daily news media, local issues, and enduring issues focusing on a variety of human rights topics. Study topics may be chosen by the teacher and the students, and should be those that will have an impact on either a group of people, or humanity in general. Students will analyze cause and effect, evaluate solutions and impact, make proposals where appropriate, and produce materials that engage and enrich each other as well as the teachers about the topics studied. **In addition to these activities, the students will use this course to support the initiative of Inspire.**

Course Title: **PENNSYLVANIA AND LOCAL HISTORY-NCAA**

Grade/Course #: 11, 12 (3200)

Course Length: Semester (.5 credit)

**Description:** This course explores the historical development of Pennsylvania and the local region from early settlement to modern times. Particular emphasis will be placed on the contributions of Pennsylvania during the various significant events of our nation. The student will gain a better perspective of the rich diverse heritage of our commonwealth by actively participating in local field trips and in class living history programs.

Course Title: **INTRODUCTION TO PSYCHOLOGY-NCAA**

Grade/Course #: 11, 12 (3346)

Course Length: Semester (.5 credit)

**Description:** This course encompasses an introduction to the field of psychology. Students will learn the methods used in conducting psychological research, as well as participate in activities concerning the areas of "Learning", "Memory and Thought", and "Sensation and Perception". Concentration will be given to the studies of "Altered States of Consciousness", "Disturbance and Breakdown", "Personality Theory", "Stress and Conflict", "Attitudes and Social Influence", and "Therapy and Change".

Course Title: **ETHNIC CONFLICT: AN ETHICAL CRISIS-NCAA**  
Grade/Course #: 10, 11, 12 (3347)  
Course Length: Semester (.5 credit)

**Description:** “Whenever men and women are persecuted because of their race, religion, or political views, that place must-at that moment-become the center of the universe.” The words of Elie Wiesel summarize the foundation for this course; the history of, and contemporary examples of, ethnic conflict and genocide around the world including a study of human rights globally, domestically, and in daily life. Students will analyze and evaluate the causes of the conflict, specific groups targeted and significant events that occurred (or are currently happening), and the responses of the rest of the world to this conflict. This course will examine the stages of genocide, the Universal Declaration of Human rights and other pertinent documents to examine when and where human rights are abridged or rescinded around the world. In addition, the students will apply what they have learned to analyze peer aggression and other relational issues and study strategies for promoting our NEHS Code of Ethics. **Students will participate in research, presentations, and social activist projects during the course of the semester, as well as use class time to create and/or support INSPIRE initiatives throughout the building.**

Course Title: **STREET LAW-NCAA**  
Grade/Course #: 9, 10, 11, 12 (3215)  
Course Length: Semester (.5 credit)

**Description:** Street Law meets students “on the street” addressing the legal and civic issues that impact their everyday lives. Topics covered include: cyber crime, identity theft, intellectual property rights, terrorism, immigration, and recent Supreme Court decisions. Throughout the course students engage in a practical understanding of the law and legal system with interactive methods that focus on legal issues relevant to students’ lives.

Course Title: **MEDAL OF HONOR**  
Grade/Course #: 9, 10, 11, 12 (3205)  
Course Length: Semester (.5 credit)

**Description:** This course is a US Military History class that focuses on significant leaders from the birth of our nation to modern times. Students are engaged with eye witness accounts of personal bravery and self-sacrifice. Students are provided with opportunities to explore the important concepts of courage, commitment, sacrifice, patriotism, integrity, and citizenship and how these values can be exemplified in daily life.

**Resources:** Materials are provided at no cost to the district. Lesson plans and activities are located online. <http://www.cmohedu.org/default.aspx>

Course Title: **TURBULENT SIXTIES**  
Grade/Course #: 9, 10, 11, 12 (3220)  
Course Length: Semester (.5 credit)

**Description:** Students will embark on journey through one of the most tumultuous and radical times in American history. Assassinations, moon landings, wars, Rock n ‘Roll, and television, the 1960s produced lasting changes socially, economically, and politically that can still be felt today. The course will follow the 10-episode series produced by CNN as a framework. Throughout the course, students will engage with literature, television, and music in an effort to understand how the 1960s affects them in contemporary America.

Course Title: **THE SEVENTIES, “AGE OF LIMITS”**  
Grade/Course #: 9, 10, 11, 12 (3225)  
Course Length: Semester (.5 credit)

**Description:** Students will embark on a journey through the seventies, analyzing the presidencies of Nixon, Ford, and Carter, evaluating the end of the Vietnam War, discussing the impact of Watergate, analyzing additional topics ranging from terrorism to the economy. The

course will follow the 8-episode series produced by CNN as a framework. Throughout the course, students will engage with literature, television and film, and music in an effort to understand how the 1970's affects them in contemporary America.

Course Title: **WOMEN WHO CHANGED THE WORLD**

Grade/Course #: 10, 11, 12 (3335)

Course Length: Semester (.5 credit)

**Description:** A one semester Social Studies course based on the contributions and background of a number of internationally significant women and their contributions to their respective countries and the world in general. It is designed to be a seminar course with a focus on student based class discussions, non-fiction reading, research and writing.



## WORLD LANGUAGE DEPARTMENT

Many colleges and universities are requiring at least 2 years of a world language as an admission criteria. It is recommended that students considering post-secondary study complete a 4 year language sequence. Students are also encouraged to study a second world language sequence while completing a first.

Course Title: **SPANISH I-NCAA**  
Grade/Course #: 9, 10, 11, 12 (4523)  
Course Length: Full year (One credit)

**Description:** This is an introductory course in basic Spanish language skills. It is designed to develop the student's ability to understand, read, write, and speak elementary Spanish. Also included is the study of the grammatical structure of the language in conjunction with some cultural traits about Hispanic peoples and cultures.

**Prerequisite:** All students must have a "C" average in English.

Course Title: **SPANISH II-NCAA**  
Grade/Course #: 10, 11, 12 (4533)  
Course Length: Full year (One credit)

**Description:** This course is a continuation of Spanish I, presenting a more analytical study of grammatical structure and civilization of the Hispanic countries.

**Prerequisite:** Spanish I, with a "C" average or better or teacher recommendation

Course Title: **SPANISH III – (Honors)-NCAA**  
Grade/Course #: 11, 12 (4543)  
Course Length: Full year (One credit)

**Description:** This course expands and refines students' abilities in the areas of written and oral expression as well as listening and reading comprehension. Spanish is used extensively in the classroom by the teacher. Students are also expected to make extensive use of Spanish as a means of communication while in class. Advanced grammatical and communicative structures are studied and practiced in depth. Authentic materials including texts, videos, and tapes are used. Cultural aspects are studied in greater detail.

**Prerequisite:** Spanish II, with a "C" average or better or teacher recommendation

Course Title: **SPANISH IV – (Honors)-NCAA**  
Grade/Course #: 12 (4553)  
Course Length: Full year (One credit)

**Description:** This course further expands and refines students' written and oral expression as well as listening and reading comprehension. Spanish is used extensively in the classroom by the teacher. Students are also expected to use Spanish as the primary means of classroom communication. Through new vocabulary and topics students will review and reinforce structures previously studied. New advanced grammatical and communicative structures will also be studied and practiced in depth. Authentic materials including texts, videos, and tapes are used. Cultural aspects are studied in greater detail.

**Prerequisite:** Spanish III, with a "C" average or better or teacher recommendation

Course Title: **FRENCH I-NCAA**  
Grade/Course #: 9, 10, 11, 12 (4529)  
Course Length: Full year (One credit)

**Description:** French I is a basic course in language acquisition. In addition to the basics of grammar and vocabulary, students will learn cultural and social customs unique to the French speaking countries. The course will concentrate on developing the areas of speaking, reading, writing, and comprehension.

**Prerequisite:** All students must have a "C" average in English.

Course Title: **FRENCH II-NCAA**  
Grade/Course #: 10, 11, 12 (4539)  
Course Length: Full year (One credit)

**Description:** French II is an extension of the first year course with more concentration in the areas of speaking, reading, writing and comprehension. The basic vocabulary learned in the first level is built upon, giving the students more flexible materials with which to work. Grammar is also studied in a more detailed manner, expanding upon the basic grammar of French I.

**Prerequisite:** French I, with a "C" average or better or teacher recommendation

Course Title: **FRENCH III – (Honors)-NCAA**  
Grade/Course #: 11, 12 (4549)  
Course Length: Full year (One credit)

**Description:** The student participating in this course is exposed to some literature and short story work. French III involves continual development of the skills of writing, reading and grammar comprehension. Literature and grammar are emphasized in both levels.

**Prerequisite:** French II, with a "C" average or better or teacher recommendation

Course Title: **FRENCH IV – (Honors)-NCAA**  
Grade/Course #: 11, 12 (4559)  
Course Length: Full year (One credit)

**Description:** The student participating in this course is exposed to some literature and short story work. French IV involves the continual development of the skills of reading, speaking, writing and grammar comprehension. Literature and grammar are emphasized.

**Prerequisite:** French III, with a "C" average or better or teacher recommendation

Course Title: **HISTORY AND CULTURE OF LATIN AMERICA**  
Grade/Course #: 9, 10, 11, 12 (4521)  
Course Length: Semester (.5 credit)

**Description:** This course is open to any student interested in learning more about Latin America. The course is taught in English. No prior foreign language experience is required. Students learn about the basic ancient and modern history, geography, and cultural aspects of Mexico, Central America, South America and the Spanish speaking Caribbean Islands.

Course Title: **HISTORY AND CULTURE OF SPAIN**  
Grade/Course #: 9, 10, 11, 12 (4522)  
Course Length: Semester (.5 credit)

**Description:** This course is open to any student interested in learning more about Spain. The course is taught in English. No prior foreign language experience is required. Students learn about the basic ancient and modern history, geography, and cultural aspects of Spain.

## BUSINESS DEPARTMENT

Course Title: **INTRO TO COMPUTER**

Grade/Course #: 9, 10, 11, 12 (5044)

Course Length: Semester (.5 credit)

**Description:** This is a required course for graduation. It is designed so that the student will learn to type by touch. The student learns to type with acceptable speed and with accuracy. While acquiring these skills, the student learns beginning word processing techniques allowing him/her to create letters, tables, reports, and numerous other documents. Each student will prepare a personal cover letter and resume as a final project. An introduction to Microsoft Word, Excel, PowerPoint, and Access is included.

Course Title: **ACCOUNTING I**

Grade/Course #: 10, 11, 12 (5038)

Course Length: Full Year (One credit)

**Description:** This course is designed to make the student knowledgeable about business organization, procedures, terms, and operation. The student learns how to keep simple records for a service business organized as a proprietorship and a merchandising business organized as a partnership. Instruction is given on the accounting cycle, cash control systems, and payroll accounting, taxes, and reports. This course may be used as a mathematics requirement for graduation.

Course Title: **ACCOUNTING II**

Grade/Course #: 11, 12 (5048)

Course Length: Full year (One credit)

**Description:** This course is designed to give the student a more in depth look at accounting procedures. Accounting I procedures are reviewed and new procedures are learned for keeping records of a corporation. A four- to six-week simulation is completed during the year using the methods previously learned. An introduction to computerized accounting through the use of a spread sheet will be completed during the last semester.

**Prerequisite:** Accounting I with a minimum of a C final grade or teacher recommendation.

Course Title: **ACCOUNTING III**

Grade/Course #: 12 (5058)

Course Length: Full year (One credit)

**Description:** To better prepare a college bound student, this course is designed to further explore advanced accounting topics that will most likely be presented at the collegiate level. It is intended for students interested in pursuing a Business major and is structured as an independent study. Students will get their first introduction to Automated Accounting Software. Topics covered in this course will include but are not limited to, Accounting Information for Management Decisions, Financial Statement Analysis, Statement of Cash Flows, Cost Accounting for a Merchandising Business, Cost Accounting for a Manufacturing Business, Accounting Transactions and Financial Reporting for a Manufacturing Business, and Budgeting and Accounting for a Not-For-Profit Organization.

**Prerequisite:** Accounting II with a minimum of a B final grade or teacher recommendation.

Course Title: **BUSINESS LAW**

Grade/Course #: 11, 12 (5051)

Course Length: One Semester (.5 credit)

**Description:** This course is designed to develop an understanding of personal rights and obligations in business situations. During the course, the student gains an understanding of how our system of law developed and how it operates today. He/She learns the law as it applies to both civil and criminal law. Each unit provides examples of cases which relate to common experiences.

Course Title: **ENTREPRENEURSHIP**

Grade/Course #: 9, 10 (5054)

Course Length: One Semester (.5 credit)

**Description:** This is an introductory course designed to provide an understanding of how a business functions in today's society. This course covers different economic systems, business organization, banking services, marketing, consumerism, and insurance.

Course Title: **INVESTING IN YOUR FUTURE**

Grade/Course #: 11, 12 (5060)

Course Length: One Semester (.5 credit)

**Description:** This course stresses the importance of planning for life and setting goals while providing the knowledge that is necessary to meet responsibilities. Subjects examined include: money management principles, financial planning, the power of investing, and the importance of protecting yourself. Much of the research is done through the use of internet resources. Students have the opportunity to develop a portfolio of financial information to use later in life.

## TECHNOLOGY EDUCATION DEPARTMENT

Course Title: **INTRO TO GRAPHIC LANGUAGE OR GRAPHIC LANGUAGE**

Grade/Course #: 9, 10, 11, 12 (6225) Intro (6230) Full Year

Course Length: Semester (.5 credit) or Full year (One credit)

**Description:** This course strives to increase the student's ability and skill to interpret his/her impressions and visualize them clearly in a given space by means of an accepted set of conventions and abbreviations. The course work is comprised of learning the basics of lettering (construction and spacing), proper line usage (visible, hidden, center, etc.), plate layout, and proper instrument usage. Various methods of projection, ellipse construction, dimensioning, and pattern layout. An introduction to CAD which encompasses the use of computer hardware, software, and peripheral devices to produce graphic images.

Course Title: **ADVANCED GRAPHIC LANGUAGE**

Grade/Course #: 10, 11, 12 (6356)

Course Length: One year (One credit)

**Description:** This is an advanced precision instrument drawing class with project drawings in orthographic, isometric, and oblique projections, dimensions, section views, fasteners, assembly, developmental and architectural drawing. Extensive use of CAD and drawings from industry will be covered.

**Prerequisite:** **Graphic Language**

Course Title: **INTRO TO MATERIALS TECHNOLOGY OR MATERIALS TECHNOLOGY**

Grade/Course #: 9, 10, 11, 12 (6450) Intro (6455) Full Year

Course Length: Semester (.5 credit) or Full year (One credit)

**Description:** The study of the construction and manufacturing industries and their relationship to all industrial technologies will be researched. Materials, tools, safety procedures, and processes that are basic to all materials will be explored through assigned problems and projects.

Course Title: **ADVANCED MATERIALS PROCESSES**

Grade/Course #: 10, 11, 12 (6470)

Course Length: Full year (One credit)

**Description:** This course provides an in-depth study of materials and processes of construction and manufacturing technology. Design, tooling, and advanced processes are covered. Assigned projects plus student-designed projects are required.

**Prerequisite:** **Materials Technology and Graphic Language.**

## FAMILY AND CONSUMER SCIENCE DEPARTMENT

Course Title: **FOOD AND NUTRITION**

Grade/Course #: 10, 11, 12 (6200)

Course Length: Semester (.5 credit)

**Description:** This is an intermediate study of food and nutrition and how eating habits affect your body over your lifetime. The course will include nutrition, personal nutrient log, and intermediate food preparation skills. This course will also address ethnic foods and customs. A \$10.00 foods lab fee is required.

Course Title: **CHILD DEVELOPMENT**

Grade/Course #: 9, 10, (6220)

Course Length: Semester (.5 credit)

**Description:** This course is designed as an in-depth study of the process of human development. Learn about physical, social, intellectual and emotional development of children and teens. Students will be required to carry an infant simulator, and learn about childcare techniques.

Course Title: **CLOTHING, TEXTILES, AND DESIGN I**

Grade/Course #: 9, 10, 11, 12 (6300)

Course Length: Semester (.5 credit)

**Description:** Students will study the history and manufacturing process of textiles and their importance in society. Students will develop and demonstrate basic skills regarding clothing repair and construction, operation of sewing equipment and machines, and hand sewing. Students will also be exposed to textile arts such as knitting, crochet, weaving, needle arts, and other areas of interest. Students will design and construct an individual project that demonstrates their skill sets in color, design, textile choice, planning, and execution. Students will be required to purchase supplies, fabrics, and components in order to complete the final project.

Course Title: **CLOTHING, TEXTILES, AND DESIGN II**

Grade/Course #: 9, 10, 11, 12 (6301)

Course Length: Semester (.5 credit)

**Description:** CTD II continues the study of textiles and their value in society. Students will add to the basic skill set from CTD I, which will be applied to two (2) major projects. Additionally, studies in colors, natural and synthetic dyestuffs, design, pattern, and planning and execution of projects will be utilized. Students must have taken CTD I and passed with proficiency in order to take this class. Basic skills are necessary for success in this class. Students will be required to purchase supplies, fabrics, and components in order to complete the final projects.

**Prerequisite:** **Clothing, Textiles, and Design I**

Course Title: **INTERIOR DESIGN**

Grade/Course #: 9, 10, 11, 12 (6150)

Course Length: Semester (.5 credit)

**Description:** This course is designed for the student who has an interest in home interiors and decoration. Topics covered will include furniture design, the elements and principles of design, furniture selection, decorating, organizing and caring for personal space.

Course Title: **FOOD PREPARATION**

Grade/Course #: 11, 12 (6250)

Course Length: Semester (.5 credit)

**Description:** This course is designed for the student who has an interest in a foods-related career. This course will cover specific advanced food preparation skills required for meal presentation. This will be taught primarily as a laboratory course. Areas covered will include kitchen safety and sanitation, menu planning, restaurant menus, appetizers, soups, salads, breads, vegetables, entrees and desserts. A \$10.00 foods lab fee is required.

**Prerequisite:** Prior completion of Food and Nutrition.

Course Title: **INDEPENDENT LIVING**

Grade/Course #: 11, 12 (6370)

Course Length: Semester (.5 credit)

**Description:** This course is offered in preparation for living independently. Areas of study include job application and selection, personal money management, clothing care, housing and home decorating, nutrition, meal planning and food preparation. This course provides knowledge and skills in all areas of home management and combines those skills with taking on the role of working adults.

Course Title: **SERVICE LEARNING**

Grade/Course # 11, 12 (6394)

Course Length: Semester (.5 credit)

**Description:** This course is designed to allow students the opportunity to perform community service or volunteer hours. Students are required to keep a detailed log of service activities, and submit a final reflection about their experience. Attendance record is graded, and must be consistent to remain enrolled. Students may take this course **only one time** during Junior year and **only one time** during Senior year. Student must be in good standing with attendance and discipline.

## FINE ARTS DEPARTMENT

Course Title: **STUDIO I**  
Grade/Course #: 9, 10, 11, 12 (7005)  
Course Length: Semester (.5 credit)

**Description:** *Drawing* (three weeks of instruction)-Students will learn the basic principles of shading techniques, realistic proportions and perspective using a variety of drawing mediums. *Painting* (four weeks of instruction)-Students will familiarize themselves with painting materials and techniques. They will develop skills in line, color, shape, texture and their relationships. *Ceramics* (four weeks of instruction)-Students will learn the basic properties of clay and hand building techniques such as pinch, coil and slab. They will broaden their design skills by incorporating glazing techniques. *3-D Design* (four weeks of instruction)-Students will develop their skills in design to manipulate a variety of media into three-dimensional pieces. The students will have references to art history, artists and art movements throughout the course. **This is a required course for those students who wish to take Painting I**

Course Title: **CERAMICS I**  
Grade/Course #: 9, 10, 11, 12 (7055)  
Course Length: Semester (.5 credit)

**Description:** This course is designed to allow the student an opportunity to learn, in depth, the basic skills and techniques of the various methods of ceramic construction, for example, the pinch, the coil, the slab, the wheel thrown and their combinations. Opportunity is also given for the development of the design and technical skills necessary for both sculptural and functional ceramics.

Course Title: **ADVANCED CERAMICS I**  
Grade/Course #: 10, 11, 12 (7065)  
Course Length: Semester (.5 credit)

**Description:** This course is designed to allow the student to advance the basic skills learned in ceramics I. Students will also learn how to make clay, engobes, stains and glazes. To enhance further experiences that student will be called upon to assist in the loading, firing, and unloading of oxidation and reduction fired kilns.

**Prerequisite: Ceramics I**

Course Title: **ADVANCED CERAMICS II**  
Grade/Course #: 11, 12 (7075)  
Course Length: Semester (.5 credit)

**Description:** This course is designed to allow the serious ceramics student an opportunity to work with the instructor in formulating and pursuing problems relating directly to their personal development as an artist/potter.

**Prerequisite: Grade B or better in Ceramics II**

Course Title: **PAINTING I**  
Grade/Course #: 9, 10, 11, 12 (7125)  
Course Length: Semester (.5 credit)

**Description:** This course will further develop the students skills' in design and composition. The students will expand their experimentation with acrylics, watercolor, tempura and oil paints. The students will become knowledgeable in the stretching of canvas and various advanced painting techniques. The student has the opportunity to become more expressive with the mediums while completing more complex assignments.

**Prerequisite: Studio I**



Course Title: **PAINTING II**  
Grade/Course #: 10, 11, 12 (7135)  
Course Length: Semester (.5 credit)

**Description:** This course is designed to allow students to further develop their expression of personal style. The students will limit their experimentation of mediums while further refining their painting skills. The students will be expected to broaden their knowledge of terminology, painting techniques and historical insight.

**Prerequisite: Painting I**

Course Title: **PAINTING III**  
Grade/Course #: 11, 12 (7145)  
Course Length: Semester (.5 credit)

**Description:** This course is designed to allow students to further develop their expression of personal style. The students will limit their experimentation of mediums while further refining their painting skills. The students will be expected to broaden their knowledge of terminology, painting techniques and historical insight.

**Prerequisite: Grade B or better in Painting II**

Course Title: **DIGITAL PHOTOGRAPHY/ADOBE PHOTOSHOP**  
Grade/Course #: 11, 12 (7255)  
Course Length: Semester (.5 credit)

**Description:** This course introduces the student to the basics of digital photography. The course explores the techniques and applications of acquiring, manipulating and outputting digitized photographic images utilizing Adobe Photoshop. Training in the operation of the digital camera will be covered. Students will become proficient in the use of Adobe Photoshop and Windows Movie Maker as a digital editing tool and as a graphic design program to create numerous projects including a stop-animation project using clay or Lego's.

**Students are required to have access to a digital camera- a cell phone camera will not work.**

Course Title: **ART APPRECIATION/HISTORY**  
Grade/Course #: 10, 11, 12 (7305)  
Course Length: Semester (.5 credit)

**Description:** This course is a survey of the major visual art forms including: painting, sculpture, architecture and minor arts, from the start of the impressionist era to the present day.

Course Title: **3-D DESIGN**  
Grade/Course #: 9, 10, 11, 12 (7505)  
Course Length: Semester (.5 credit)

**Description:** This course introduces the students to the basic elements and principles of design. The students will experiment with a variety of materials in developing skills in dimensional problem solving. The students develop their awareness of various techniques and artists associated with three-dimensional design.

Course Title: **3-D DESIGN II**  
Grade/Course #: 10, 11, 12 (7515)  
Course Length: Semester (.5 credit)

**Description:** This course further develops the student's skills in materials, methods and approaches. The students will expand their knowledge of movements and influences associated with 3-D Design. They will broaden their sensitivity to the uniqueness of creating conventional and contemporary sculpture.

**Prerequisite:** 3-D Design

Course Title: **2-D DESIGN**  
Grade/Course #: 9, 10, 11, 12 (7525)  
Course Length: Semester (.5 credit)

**Description:** This course introduces the student to drawing and graphic design covering an overview of shading, perspective, design theory and image. Projects will stimulate the application of creative thinking to solving two-dimensional drawing and graphic design problems.

## MUSIC

Course Title: **SENIOR BAND**  
Grade/Course #: 9, 10, 11, 12 (7400)  
Course Length: Full year (One credit)

**Description:** This course allows the student who already has a strong instrumental background to increase his/her abilities and knowledge of instrumental music through individual lessons, group lessons, small ensemble rehearsal and performance, concert band rehearsal and performance, and marching band rehearsal and performance. A wide range of concert and marching band literature is played throughout the year. The band represents the school in both concert and marching settings at various civic and school functions. All students are required to participate in marching band if enrolled in this course. Exceptions will be made, at the discretion of the director, for students involved in fall sports and activities that conflict with marching band rehearsals and performances.

Course Title: **SENIOR CHORUS**  
Grade/Course #: 9, 10, 11, 12 (7445)  
Course Length: Full year (One credit)

**Description:** This course provides the student with an opportunity to find expression creatively through vocal music. Sight-reading and sight singing are incorporated into the course throughout the year. Good choral techniques and attitudes are emphasized. The repertoire is determined by the size and ability of the group. Senior chorus students are required to perform at all concerts and school functions.

Course Title: **MUSIC THEORY**  
Grade/Course #: 11, 12 (7485)  
Course Length: Semester (.5 credit)

**Description:** Students will learn the fundamentals of music theory beginning with the reading of notes in treble and bass clef, vocabulary, intervals, key signatures, scale structures and rhythmic analysis. Students will then progress into introductory composition and chordal analysis using figured bass notation leading to analysis of Bach chorales. Music Technology will also be demonstrated and many programs will be utilized for this course. This course is designed for the middle to advanced music student and is not intended for beginners or people with little or no music experience.

Course Title: **JAZZ BAND**  
Grade/Course #: 9, 10, 11, 12 (7605)  
Course Length: Full year (One credit)

**Description:** This course includes the basic-to-advanced concepts of American jazz with the emphasis on jazz styles such as blues, swing, bebop, funk and jazz rock. The prerequisite for the course is a thorough knowledge of one's instrument with an understanding to sight-read music as well as participate as a group. Good technique and attitudes are also addressed throughout the year. It is under the discretion of the jazz band director for a student to participate in this group. The course is primarily intended for the student who is serious about studying American jazz and learning jazz improvisation techniques. The latter of these is needed in order to play a solo in class which is done by listening to jazz pieces and the study of improvisation through reading chords. Outside practice will be required due to the difficulty level of the music. The repertoire is determined by the ability of the group to achieve a quality performance. All students are also required to perform at all concerts and school functions.

Course Title: **GUITAR CLASS**

Grade/Course#: 9, 10, 11, 12 (7500)

Course Length: Semester (.5 credit)

**Description:** No experience playing guitar is necessary. This course is designed for anyone who wants to learn the basics of guitar playing or for the established guitarist that wants to learn how to read tablature and music. Topics to be covered include: Fundamental techniques for guitar emphasizing chord study and related literature are presented. Areas of study include chords, right-hand picking and strumming patterns, exercises, theory as applied to the guitar, history of the guitar (physical development of the instrument, as well as playing styles), reading musical notation plus tablature, basic rock and blues rock, and blues solo and rhythm techniques. Concepts learned in class will be applied to songs and appropriate chord progressions. **Participants must provide their own guitar and accessories (picks, strings, etc.)**

## PHYSICAL EDUCATION DEPARTMENT

Course Title: **DRIVER EDUCATION/HEALTH 1**

Grade/Course #: 9 and 10 (9002)

Course Length: Semester (.5 credit)

**Description: Health:** This **required** class is designed to provide the student with instruction focused on information that will help them develop into healthy adults. This class will provide instruction in topics such as wellness - stress, personality development, healthy emotions, nutrition, alcohol/tobacco and substance abuse, CPR/First Aid.

**Driver Education:** This course provides 32 hours of classroom instruction designed to develop the proper skills and attitudes for the safe operation of a motor vehicle. The course provides the opportunity for 6 hours of behind-the-wheel instruction for the student with a learner's permit or valid operator's license. **Driver Education requires a lab fee of \$100.00**

Course Title: **HEALTH/PHYSICAL EDUCATION 2**

Grade/Course #: 11 and 12 (9012)

Course Length: Semester (.5 credit)

**Description: Health:** This **required** class is designed to provide students with instruction focused on information that will help them develop into healthy adults. It will include topics such as Noninfectious diseases, Infectious diseases – STD's, sexual harassment, healthy relationships, Aging & Health Care and Lifelong fitness. Students will be given the opportunity to receive CPR certification.

**Physical Education:** This required course provides the student with instruction and participation in activities that include but are not limited to flag football, soccer, lacrosse, volleyball, basketball, tennis and softball. Students will be tested on basic knowledge, of rules and terminology and strategies. Students will be assessed on their fitness abilities, effort, and attitude as well as by completing the President's Council on Physical Fitness Testing. Each student must complete the mile in the given time in order to maintain an A or B grade. The class aims to develop an understanding of the rights of others through good sportsmanship and teamwork.

Course Title: **TEAM SPORTS**

Grade/Course #: 9, 10, 11, 12 (9022)

Course Length: Semester (.5 credit)

**Description:** This class is designed to allow the student to participate in team sport activities. The student will receive greater depth of instruction in specialized activities. Teams will be established for class tournaments. The student will also receive instruction in conditioning skills and drills for each sport. Sports will include but will not be limited to the following: basketball, soccer, floor hockey, flag football, lacrosse, volleyball, pickleball, team handball. Students will be assessed on their fitness abilities by participating in the presidents Council on Physical Fitness testing. Each student must complete the mile in the given time in order to maintain an A or B grade. The class aims to develop an understanding of the rights of others through good sportsmanship and teamwork. Students will be given the opportunity to receive CPR certification.

Course Title: **LIFETIME SPORTS**

Grade/Course #: 9, 10, 11, 12 (9032)

Course Length: Semester (.5 credit)

**Description:** This class is designed to allow the student to participate in lifetime sports and activities. The student will receive a greater depth of instruction in these specialized activities. Students will participate in competitions and tournaments. The student will receive instruction in conditioning skills and drills for each sport. Sports will include but will not be limited to the following: softball, golf, tennis, badminton, table tennis, shuffleboard, pickleball, volleyball. Students will be assessed on their fitness abilities by participating in the Presidents Council on Physical Fitness testing. Each student must complete the mile in the given time in order to maintain an A or B grade. The class aims to develop an understanding of the rights of others through good sportsmanship and teamwork. Students will be given the opportunity to receive CPR certification.

Course Title: **WEIGHT TRAINING/CONDITIONING**

Grade/Course #: 9, 10, 11, 12 (9042)

Course Length: Semester (.5 credit)

**Description:** This class is designed to provide the student with the opportunity to learn the following: nutrition, weight training styles, weight room etiquette, basic anatomy, safety and proper exercise techniques. The student will have the opportunity to improve their motor skills by participating in plyometric, agility, and endurance drills as well as conditioning activities. The student will be required to skill test, complete written assignments, and record daily workouts. The student will be assessed on their effort, attitude as well as their ability to increase overall strength by 20% by the end of the semester.

Course Title: **AEROBIC FITNESS**

Grade/Course #: 9, 10, 11, 12 (9062)

Course Length: Semester (.5 credit)

**Description:** This course is designed to provide the student with the opportunity to improve physical fitness through aerobic activities and resistance training. Instruction in hi/lo aerobics, step training yoga, Pilates as well as other forms of aerobic activities will be included. The student will be instructed in dancing as a lifetime activity. Resistance training exercises will be taught in order to improve basic muscle tone. Demonstration and lecture of safety techniques will be given. The student will use the information provided to create an aerobic routine as a final project. The student will complete written and skills tests.

Course Title: **AQUATIC FUNDAMENTALS**

Grade/Course #: 9, 10, 11, 12 (9072)

Course Length: Semester (.5 credit)

**Description:** This class will enable the student to be exposed to various aspects of aquatics. Basic swimming strokes, flip turns, non-competitive swimming skills, as well as pool rules, procedures and safety will be taught. Snorkeling skills, basic water polo rules and water aerobic techniques will be included. The student will be assessed on their participation, effort and attitude as well as completing written and skills tests.

Course Title: **LIFESAVING**

Grade/Course #: 9, 10, 11, 12 (9082)

Course Length: Semester (.5 credit)

**Description:** This elective class is designed to provide the student with the opportunity to receive certification as a professional lifeguard from the American Red Cross. Course information will include lifeguard responsibilities, rescue skills, first aid skills, and waterfront facilities. If the student meets all skill and written requirements they will receive certification. \*This course requires a fee to cover the Red Cross materials and certifications. \*\*The student has to be able to swim 500 yards.

\*\*\*Minimum age requirement is 15 years.

## ERIE COUNTY TECHNICAL SCHOOL PROGRAM

Vocational and technical education is available to the student who qualifies in grades ten, eleven and twelve. The Erie County Technical School is an extension of North East High School which permits the student to participate in a variety of vocational or technical training with job entry skills. The student receives three credits per year toward graduation. At the conclusion of the program, the student receives the standard North East High School diploma plus a Certificate of Achievement indicating the total hours completed in his/her vocational or technical curriculum. Student selection is conducted through the high school guidance office. Further information may be obtained from the Guidance Office. Administrative approval is required to enter these Programs.

### Course Sequence 3 Year Vo-Tech Students

9th Grade	10th Grade	11th Grade	12th Grade
Eng. 9 1 Credit	Eng. 10 1 Credit	Eng. 11 1 Credit	English 12 1 Credit
American History 1 Credit	Art/Humanities Elective .5 Credit	Western Civilization 1 Credit	POD 1 Credit
Health 1 .5 Credit	Health 2 .5 Credit	PE .5 Credit	PE .5 Credit
Math Elective 1 Credit	Math Elective 1 Credit	Math or Science Elective 1 Credit	Art/Humanities Elective .5 Credit
Earth/Environ. Science 1 Credit	Biology 1 Credit	Art/Humanities Elective .5 Credit	Math or Science Elective 1 Credit
Art/Humanities Elective .5 Credit	Vo-Tech 3 Credit	Vo-Tech 3 Credit	Vo-Tech 3 Credit
4 General Electives 2.0 Credit			
Credits Earned 8	Credits Earned 7	Credits Earned 7	Credits Earned 7

## COMMUNICATIONS DEPARTMENT

Course Title: **ART & DESIGN FOR BUSINESS**

Grade/Course #: 10, 11, 12 (8218)

Course Length: Full year (Three credits)

**Description:** The term “commercial art” is an umbrella title encompassing many occupations in which an artisan creates a representation to the specification of a client. Prospective students should possess the following characteristics: a demonstrated talent in drawing, solid verbal and written communication skills, good sense of color, proportion and design, applied math skills, developed problem-solving skills, fine motor skills.

Graduates of the Commercial Art program, depending upon their talent and work ethic, are prepared to enter the workforce in entry-level positions. Examples include but are not limited to: Photo lab technician, Sign painter, Matting and framing worker, Web page designer.

A high percentage of our graduates continue their education at two-or four-year colleges pursuing a career as: Graphic design artist, Photographer, Media specialist, Art therapist, Teacher.

Course Title: **COMPUTER INFORMATION SYSTEMS**

Grade/Course #: 10, 11, 12 (8228)

Course Length: Full year (Three credits)

**Description:** Students achieve entry-level skills in areas of computer operations, data entry and computer programming depending on their ability and interests. Combined with a background of knowledge, skills and appreciation of the data processing industry, each student is able to seek employment in the area of their interest. Prospective students should be able to think logically, have good speaking, reading and writing skills and pay attention to detail.

Graduates from Computer Information Systems are prepared to enter the workforce in entry-level position. Examples include but are not limited to: Computer Consultant, Web page designer, Programmer

Students may seek additional training to pursue any of the following: Programming manager, Computer systems analyst, Information service processor, Systems architect, Systems engineer.



Course Title: **DRAFTING & DESIGN**

Grade/Course #: 10, 11, 12 (8236)

Course Length: Full year (Three credits)

**Description:** Drafting careers are changing rapidly as computer technology replaces traditional procedures and functions. The Drafting & Design course instructs students in industry standards and prepares students to step into the workplace or it gives them an important edge, if choosing to further their education in this field. Drafting, mechanical drafting and CAD involve making precise, instrument-aided drawings that show how to construct machines, buildings and infrastructures.

Prospective students should possess the following characteristics: creative minds and good imagination, logical thinking, basic math skills, accuracy and artistic ability.

Graduates of the Drafting & Design program are prepared to enter the workforce in entry-level positions. Examples include but are not limited to: Architectural draftsman, Technical illustrator, Electronic draftsman, Mechanical detailer.

Students may also wish to seek additional training to pursue any of the following: Registered architect, Civil or construction engineer, CAD technician, Mechanical engineer.

**Course Title: GRAPHIC COMMUNICATIONS**

Grade/Course #: 10, 11, 12 (8248)

Course Length Full year (Three credits)

**Description:** The Graphic Communications program introduces students to theoretical aspects as well as hands-on experiences using computers, dark-room equipment and printing presses. Students acquire marketable skills in job planning, design and layout, copy preparation, proofing, platemaking, offset press operation, bindery and finishing.

Prospective students should possess the following characteristics: creative mind, good typing skills, good background in English and spelling, strong mechanical skills, good attention to detail, organized and neatness.

Graduates of the Graphic Communications program are prepared to enter the workforce in entry-level positions. Examples include: Typesetter, Offset press operator, Proofreader.

Students may choose to seek additional training in: Production manager, Graphic designer, Graphic specialist.

## CONSTRUCTION DEPARTMENT

Course Title: **CONSTRUCTION TRADES**

Grade/Course #: 10, 11, 12 (8212)

Course Length: Full year (Three credits)

**Description:** This program prepares students to enter the building trades industry with marketable skills. This encompasses all phases of residential construction. The student will gain knowledge of: Basic building materials, Blueprint reading, Brick and Block laying, Rough framing, Door and window installation, drywall hanging and finishing, Stair construction, Roofing and siding, Finish trim applications, Basic principles of wiring and plumbing.

Prospective students should have mechanical aptitude, coordination, stamina, physical strength, manual dexterity, mechanical dexterity and no fear of heights.

Graduates will be qualified for entry-level jobs as: Carpenter's apprentice, and Block or brick layer.

With additional training, students can pursue careers as: Self-employed contractor and Building supply sales.

Course Title: **FACILITY MAINTENANCE TECHNOLOGIES**

Grade/Course #: 10, 11, 12 (8260)

Course Length: Full year (Three credits)

**Description:** This unique and highly versatile course offers several trades in one for the student who is interested in becoming a skilled craftsman in a variety of trades. Course content includes shop safety, proper use of hand and power tools, basic construction, plumbing, painting, electricity, woodworking, finish carpentry and small engine repair.

Prospective students should have physical stamina, mechanical aptitude, responsibility, manual dexterity, coordination and patience.

Graduates will be qualified for entry-level jobs as: Electrician, plumber or carpenter apprentice, Maintenance mechanic, Assembler, Plumber, electrician or groundskeeper assistant.

With Additional training, students can pursue careers as: Electrician, plumber, carpenter or HVAC installer, Mill or plant maintenance supervisor.

## HUMAN SERVICES DEPARTMENT

Course Title: **CULINARY ARTS**  
Grade/Course #: 10, 11, 12 (8224)  
Course Length: Full year (Three credits)

**Description:** The Culinary Arts program assists the student who is interested in the fast-paced and ever growing food services industry. The program offers a comprehensive presentation of basic principles and techniques necessary to obtain an entry-level position in the food service industry or prepare for continued training and education.

Graduates can choose to enter the food service industry in entry-level positions such as: Fast order cook, Waiter or waitress, Baker, Cook, Cake decorator or finisher.

With additional training or education, students may pursue careers as: Chef, Culinary manager, Dietitian, Nutritionist, Restaurant owner.

Course Title: **COSMETOLOGY**  
Grade/Course #: 10, 11, 12 (8232)  
Course Length: Full year (Three credits)

**Description:** Cosmetology is an art and a science involving the study of the skin, hair and nails. The Cosmetology program provides each student with the knowledge and skills required to become a licensed cosmetologist. The license requires 1250 hours of instruction.

Prospective students should possess creative and artistic aptitude, enjoy working with people, physical stamina, flexibility and patience.

Graduates of the Cosmetology program will be qualified for entry-level positions as: Salon receptionist, Hair stylist, Manicurist, Esthetician.

With additional training, students may pursue careers as: Beauty salon manager, Laboratory technician, Research technician, Teacher.

Course Title: **HEALTH ASSISTANT**  
Grade/Course #: 10, 11, 12 (8252)  
Course Length: Full year (Three credits)

**Description:** The Health Assistant program is ideal for students considering a career in the health and medical field. This program introduces student to various career opportunities that exist in health care. It prepares the student to enter the health care system as a competent assistant to the health care professional.

Prospective students should possess good communication and interpersonal skills, neatness and cleanliness, manual dexterity, good professional appearance, the ability to maintain confidentiality and the ability to lift 50 pounds.

Graduates are prepared for entry level positions as: Home health aide, Medical receptionist or office assistant, Nurses aide.

With additional training students can pursue careers as: LPN or RN, Laboratory technician, Radiology technician, Physician's assistant, Occupational therapist.

Course Title: **EARLY CHILDHOOD**  
Grade/Course #: 10, 11, 12 (8272)  
Course Length: Full year (Three credits)

**Description:** The Child Care program provides the student with the necessary skills for entry-level positions in the child care field, with an emphasis on the preschool environment.

Prospective students should enjoy children and have a pleasant personality, even temperament, patience and good communication skills, particularly spelling and grammar.

Graduates qualify for entry-level child care positions as: Preschool aide, Teacher's aide, Assistant group supervisor.

Students may seek to continue their education by pursuing advanced degrees in early childhood than be able to pursue careers as: Preschool teacher, Elementary teacher, Child care worker, Special education teacher.

## MANUFACTURING DEPARTMENT

Course Title: **ELECTRICAL ENGINEERING**

Grade/Course #: 10, 11, 12 (8240)

Course Length: Full year (Three credits)

**Description:** Students in this program learn the fundamentals of electrical skills and theory. The Electrical Engineering students acquire the skills for employment in all industrial electricity occupations. The students learn in detail the theory and hands-on application of alternating current, direct current, hydraulics, pneumatics, motor controls, programmable logic controllers and residential wiring.

Prospective students should possess mechanical aptitude, ability in basic math and manual dexterity.

Graduates of the Electrical Engineering program qualify for entry-level positions as: Electrician's helper or apprentice, Electrical production or maintenance worker, Hydraulics or pneumatics technician, Test specialist.

With additional training, students can pursue these careers: Commercial electrician, Systems research designer, Electrical engineer, Residential electrician.

Course Title: **ELECTRONICS**

Grade/Course #: 10, 11, 12 (8244)

Course Length: Full year (Three credits)

**Description:** Increased complexity of technology will increase the demand for technicians. This course emphasizes electrical and electronic fundamentals and prepares students for a variety of entry-level positions in the electronics field. Basic theories of electronics, circuitry, communications, instrumentation and electronic automated techniques are part of this extensive curriculum.

Prospective students should have a solid understanding of algebra, a mechanical inclination and good communication skills.

Upon graduation, Electronics students will be prepared for entry-level positions as: Industrial repairer, Computer service technician, Office machine repairer, Electronic equipment repairer.

With additional training, students can pursue these careers: Electronics technician, Medical technician, Robotic technician, Instrument maintenance worker.

Course Title: **METAL FABRICATION**

Grade/Course #: 10, 11, 12 (8268)

Course Length: Full year (Three credits)

**Description:** This is a comprehensive Program designed to give students entry-level skills in the field of metal fabrication. Areas of study include the techniques and fundamentals of pattern development, fabrication, design, proper use of hand and power tools, acetylene welding, acetylene cutting and gas metal arc welding (mig). Prospective students need manual dexterity, mechanical aptitude, physical stamina and basic math skills. Graduates of the Metal Fabrication program will be prepared for entry-level positions as: Welder trainee, Structural steel worker, Welder, Production line worker. With additional training or education, job opportunities can include: Metal fabricator, Quality control technician, Pattern maker.

Course Title:       **PRECISION MACHINING**

Grade/Course #:    10, 11, 12 (8256)

Course Length:     Full year (Three credits)

**Description:** The machinist is a skilled worker who forms and shapes metals from their raw state to a finely finished and accurately shaped part. Students trained in this program develop the necessary skills to be entry-level machinists.

Prospective students should possess above-average math skills, good work attitudes, mechanical aptitude, eye-hand coordination and the patience to work neatly and accurately.

Graduates of the Tool & Die program will be prepared for entry-level positions as: Machine operator, Toolmaker apprentice.

With additional training and education, job opportunities may include: Toolmaker, Machinist, CNC programmer, Model makers.

## TRANSPORTATION DEPARTMENT

Course Title: **AUTO BODY**

Grade/Course #: 10, 11, 12 (8200)

Course Length: Full year (Three credits)

**Description:** This course presents current and future practices in the rapidly changing world of auto body repair. Projects and class work use the latest technologies, equipment and shop practices.

Prospective students should have good hand-eye coordination, manual dexterity, multi-limb coordination, mechanical aptitude, skill with tools, physical strength, accuracy and the ability to work with minimal supervision.

Graduates of the Auto Body program are eligible for entry-level positions in the following occupations: Reconditioner, Spray painter, Auto body customizer, Body and fender apprentice, Glass installer, Auto body repairer, Auto parts service clerk, Metal finisher.

With additional training, students can pursue career as: Auto body designer, Insurance adjuster, Auto body shop owner or manager.

Course Title: **AUTOMOTIVE TECHNOLOGY**

Grade/Course #: 10, 11, 12 (8203)

Course Length: Full year (Three credits)

**Description:** Changes in automotive technology have increased the importance of the automotive technician. This program provides the student with the theory and practical experience needed to diagnose and repair automotive systems.

Prospective students should have mechanical aptitude, manual dexterity, skill with tools, physical stamina, good hand-eye coordination, physical strength, willingness to work in an uncomfortable environment and the ability to think logically.

Graduates of the Automotive Technologies program are eligible for entry-level positions as: Auto mechanic or small engine mechanic, Parts supplier, Front-end or tune-up mechanic, State inspection mechanic.

With additional training, students can pursue careers as: Automotive technician or specialist, Repair service estimator, Diesel, bus or farm mechanic.

Course Title:       **NETWORKING TECHNOLOGIES**

Grade/Course #:    10, 11, 12 (8277)

Course Length:     Full year (Three credits)

**Description:** This course is designed to provide students with classroom and laboratory experience in current and emerging networking technology that will empower them to further their education and training in the computer networking field. Instruction includes, but is not limited to safety, networking, network terminology and protocols, network standards, local-area networks (LANS), wide-area networks (WANS), Open System Interconnection (OSI) models, cabling, cabling tools, routers, router programming, Ethernet, Internet Protocol (IP) addressing and network standards. Particular emphasis is given to the use of decision-making and problem-solving techniques in applying science, mathematics and communication concepts to solve networking problems. In addition, instruction and training are provided in the proper care, maintenance and use of networking software, tools and equipment and all local, state and federal safety, building and environmental codes and regulations.

Graduates qualify for entry-level networking positions as: Network Technician, Help Desk Operator, and Computer Repair Technician.

Graduates may choose to continue their education by pursuing additional training in network administration. They are then able to pursue careers as: Network Administrator, Information Systems Manager, and Systems Programmer.

Course Title:       **TOURISM & HOSPITALITY MANAGEMENT**

Grade/Course #:    10, 11, 12 (8211)

Course Length:     Full year (Three credits)

**Description:** The Tourism & Lodging Management program has everything you will need to get started on a hospitality career. In this program, students participate in classroom activities that teach valuable lodging skills and knowledge. Students will also participate in internships supervised by the instructor and a worksite mentor. Major instructional units in the curriculum include: an overview of lodging management, the front office, housekeeping, leadership and management, marketing and sales, and food and beverage service. This program corresponds to competency lists used in the American Hotel & Motel Association's Educational Institute's post-secondary curriculum and forms the basis for articulation agreements with colleges and universities. Students are also trained in food safety and given the opportunity to take the national exam for a food safety certification which is required in all retail food establishments.

Graduates qualify for entry-level hospitality positions as: Bell person, Marketing Clerk, Front Desk Agent, Housekeeper.

By pursuing additional training in hospitality management students can pursue careers as: Purchasing Director, General Manager, Executive Housekeeper, and Sales Manager.



## EXTRA-CURRICULAR ACTIVITIES NORTH EAST HIGH SCHOOL

North East High School offers a wide variety of clubs, organizations, and sports to our students. Everyone is strongly urged to become an active member of the high school community and participation in our extra-curricular programs is an excellent way to do this. Most of the clubs and activities have open enrollment but a few are selective or are dependent upon elections. If student demand exceeds the number of openings some sports may require try-outs. Your homeroom teacher will be able to assist you if you wish to participate in any extra-curricular activities.

Although our primary focus will always be academic, extra-curricular activities are an excellent way to enrich the high school experience. Valuable lessons in teamwork and peer interaction can be developed and practiced. Consider participation in one of our extra-curricular activities as a way to improve both yourself and our school.

### **Clubs and Activities**

American Field Service  
Cheerleading  
Dance Team  
Ecology Club  
Envirothon  
Life Smarts  
Inspire  
Model United Nations  
Musical Production  
National Honor Society  
Pennsylvania Junior Academy of Science  
Science Olympics  
Senior Play  
Student Council  
Yearbook

### **Inter-Scholastic Sports**

Baseball  
Boys Basketball  
Boys Cross Country  
Boys Golf  
Boys Soccer  
Boys Swimming  
Boys Track  
Football  
Girls Basketball  
Girls Cross Country  
Girls Golf  
Girls Soccer  
Girls Swimming  
Girls Track  
Softball  
Volleyball  
Wrestling