

# **NORTH CLARION HIGH SCHOOL**

## **COURSE SELECTION GUIDE**

**2009 - 2010**



**10439 Route 36  
Tionesta, PA 16353  
744-8544**

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For information regarding civil rights or grievance procedures, contact David E. Stake, Superintendent, Title IX Coordinator at 10439 Route 36, Tionesta, PA 16353, (814) 744-8541. For information regarding services, activities and facilities that are accessible to and useable by handicapped persons, contact Steven L. Young, High School Principal, Section 504 Coordinator of 10439 Route 36, Tionesta, PA 16353, (814) 744-8544.

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## PURPOSE OF THIS GUIDE

This Course Selection Guide has been compiled for the purpose of helping students select courses that are best suited for their academic growth.

Choosing one's schedule is one of the most important activities for every high school student. Each student must identify those courses offered each year that will best prepare him/her for his/her educational and career goals. To identify and determine these goals, each student should work closely with his/her parents, teachers, and the guidance counselor.

Consideration must be given to your career plans, job training, employment and educational goals beyond high school. After high school, your preparation for employment may involve the following levels:

- A. Apprenticeship Training: this training consists of on the job training for which one receives a reduced wage while learning.
- B. Vocational or Technical Training: this training consists of a formal training program in a vocational, technical, or trade school. This training will vary from three to twenty-four months depending on the program.
- C. Technical Preparation/Associate Degree: this training is usually a two-year program at a junior/community college or branch campus, at the conclusion of which an associate degree is usually awarded.
- D. Baccalaureate Degree Training: this training is a four-year program of study at a college or university on the conclusion of which a bachelor of science or arts degree is usually awarded.
- E. Masters / Doctoral Training: this training consists of additional course work required beyond the Baccalaureate Degree Program in certain career areas.

Your educational growth, career goals, and training beyond high school need to be considered as you select your high school courses. Consultation with your parents, teachers, and guidance counselor is important in helping you develop the academic strengths and plan that will help you compete in our fast paced society. The following examples of jobs requiring college preparation are offered to help you plan for your future.

## EXAMPLES OF JOBS REQUIRING COLLEGE PREPARATION

Two-Year College ( <u>Associate Degree</u> )	Four-Year College ( <u>Bachelors Degree</u> )	More Than Four Years ( <u>Various Graduate Degrees</u> )
Computer Technician	Teacher	Lawyer
Surveyor	Accountant	Doctor
Registered Nurse	Computer Systems Administrator	Architect
Dental Hygienist	Engineer	Pharmacist
Diagnostic Medical Sonographer	Journalist	University Professor
Physical Therapy Assistant	Insurance Agent	Veterinarian
Hotel/Restaurant Manager	Marketing Manager	Psychologist

For more information on Educational Requirements for specific jobs or careers, contact the Guidance Counselor in the guidance office, search the Occupational Outlook Handbook, and visit [www.educationplanner.org](http://www.educationplanner.org) or [www.bridges.com](http://www.bridges.com).

## GRADUATION REQUIREMENTS

1. Credits required and must be passed for Graduation:

- A. 4 English credits
- B. 4 Social Studies credits (Am History II, American Gov/Law, Economics, Elective )
- C. 4 Science credits (Biology)
- D. 4 Math credits (Algebra I, Geometry, Algebra II)
- E. 2 Arts and Humanities credits
- F. 1.5 Physical Education credits
- G. .50 Health credit
- H. 4 Elective courses
- I. Graduation Project

24.00 Total Credits

2. Students must take and pass the following required courses:

Grade 9

English

Am. History II  
Math  
Biology

Phys. Ed.

Health  
Graduation Project

Grade 10

Am. Gov/Law  
Math  
  
Elective

Health  
Graduation Project

Grade 11

Economics  
Math

Health  
Graduation Project

Grade 12

English  
English  
English  
Math  
Science  
Social Studies  
Phys. Ed  
Phys. Ed  
Graduation Project

Each student is required to register for a nine-period day. Special exception is granted to students of the eleventh and twelfth grades enrolling in Clarion County Career Center. Additional exceptions are for those involved in an early release program to take courses at Clarion University. An early release program requires school board approval.

## ARTS AND HUMANITIES

The following courses are the only electives that will fulfill the Arts and Humanities credit requirements:

Spanish I-IV	2D Studio	Mech/Arch CAD	Speech
French I- IV	3D Studio	Ind Arts Survey	Creative Writing I
Band/Chorus	4D Studio	Adv Ind Arts Survey	Creative Writing II

## NORTH CLARION TIME SCHEDULE

Regular Time Schedule		Morning Activity Schedule		Afternoon Activity Schedule	
Homeroom	7:55-8:13	Homeroom	7:55-8:13	Homeroom	7:55-8:13
Period 1	8:16-8:57	Activity Period	8:16-8:46	Period 1	8:16-8:57
Period 2	9:00-9:41	Period 1	8:49-9:24	Period 2	9:00-9:41
Period 3	9:44-10:25	Period 2	9:27-10:02	Period 3	9:44-10:25
Period 4	10:28-11:09	Period 3	10:05-10:40	Period 4	10:28-11:09
Period 5 (7-9 Class)	11:12-11:53	Period 4	10:43-11:18	Period 5 (7-9 Class)	11:12-11:53

Period 5 (10-12 Lunch) 11:12-11:42	Period 5 (7-9 Class) 11:21-11:59	Period 5 (10-12 Lunch) 11:12-11:42
Period 6 (7-9 Lunch) 11:56-12:26	Period 5 (10-12 Lunch) 11:21-11:51	Period 6 (7-9 Lunch) 11:56-12:26
Period 6 (10-12 Class) 11:45-12:26	Period 6 (7-9 Lunch) 11:54-12:32	Period 6 (10-12 Class) 11:45-12:26
Period 7 12:29-1:10	Period 6 (10-12 Class) 12:02-12:32	Period 7 12:29-1:00
Period 8 1:13-1:54	Period 7 12:35-1:13	Period 8 1:03-1:33
Period 9 1:57-2:38	Period 8 1:16-1:55	Period 9 1:36-2:06
Announcements & Dismissal 2:38	Period 9 1:58-2:38	Activity Period 2:09-2:38
	Announcements & Dismissal 2:38	Announcements & Dismissal 2:38

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## GRADUATION PROJECT

As outlined in section 5.214 of state curriculum regulations....In order to graduate from high school, a student shall complete a project in one or more areas of concentrated study under the guidance and direction of the high school faculty. The purpose of the project, which may include research, writing or some other form of demonstration, is to assure that the student is able to **apply**, **analyze**, **synthesize** and **evaluate** information, and **communicate** significant knowledge and understanding.

The North Clarion County School District Graduation Project has been developed by a panel of teachers and administrators, in conjunction with the District's Strategic Plan. The project, an on-going four-year process, provides an opportunity for students to broaden their organizational and communicational skills. It also provides students the opportunity for an in-depth exploration of several careers and educational opportunities.

Completion and presentation of the project is to take place in the spring of the senior year. Students who do not satisfactorily complete a graduation project will not be awarded a diploma or participate in the graduation ceremony.

## VOCATIONAL PROGRAMS

The School Board believes that vocational education is an integral part of a student's education. Vocational education can provide individuals with skills needed to be economically self-sufficient, and provide business and industry with the skilled employees they need to remain competitive

Vocational education for North Clarion students will be provided by the Clarion County Career Center and the vocational business courses offered by North Clarion High School

The following vocational programs are available at Clarion County Career Center:

Telephone: (814) 226-4391

Allied Health Science

Diesel Technology  
One Year Options at the

Career Center

Automotive Technology

Industrial  
Technology  
(See Page 17)

Computer Networking/Info Systems  
Construction Technology  
Cosmetology Styling Academy  
Culinary Arts & Hospitality

Police Science  
Tourism & Marketing Services  
Welding & Fabrication

Descriptions of the courses offered at Clarion County Career Center can be found on pages 17 - 18. Additional materials are available in the guidance office. Students and parents are encouraged to visit vocational programs to determine what educating opportunities are available at the Clarion County Career Center. Visits and tours can be arranged by contacting the vocational-technical school or through the Guidance Counselor in the guidance office.

Note: The North Clarion County School Board has adopted the policy that no student will be permitted to start or continue in a vocational-technical program if they cannot maintain normal progress toward graduation. Students

will have to make-up the deficiency in summer school or by being tutored **before** they can participate or continue in a program at the vocational-technical school.

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## TIMELINE FOR COLLEGE ADVICE - POST SECONDARY EDUCATION

### PRIORITIES

- |  |   |
|--|---|
| a. Take challenging classes in high school | e. Screen schools - 2-yr., 4-yr., or military |
| b. Develop strong study habits             | f. Visit and apply to three schools           |
| c. Determine a career interest             | g. MEET ALL DEADLINES                         |
| d. Pick a college major                    | h. Do financial aid research early            |

1. The Guidance Office is equipped with a number of directories, catalogs, computer programs, financial aid information and career publications to help student's research post-secondary schools (2-yr., 4-yr., College, Trade and Military).
2. Did you know experts predict that by the year 2020, 80% of all jobs in the United States will require some post-secondary education or training?
3. If you are wondering about the proper time to plan and apply for college admission, the following is a handy reminder. You should start your comparative shopping as early as possible - THE EARLIER, THE BETTER.

### TIMELINE FOR COLLEGE ADMISSIONS

11th Year: FALL Continue research on careers and post-secondary institutions

October	Take PSAT at North Clarion Research and apply for scholarships
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January-February	Register for SAT or ACT First college visit to campus
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11th Year: SPRING	Conduct intensive investigation Continue researching and applying for scholarships
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March/April	Take first SAT or ACT
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June	Appropriate time for certain SAT Achievement Tests
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11-12: SUMMER	Send for applications Second college visit to campus Third college visit to campus
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12th Year: FALL	Complete and mail applications Research and apply for scholarships Research other financial aid opportunities
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October/November	Take second SAT or ACT & Achievement Tests
12th Year: WINTER	
December/January	Appropriate time for remaining Achievement Tests
January/February	Complete and mail financial aid forms (FAFSA)
12th Year: SPRING	Make final decisions
March/April	Contact financial aid offices at college

# RECOMMENDED COURSE SEQUENCE:

	<u>Grade 9</u>				<u>Grade 10</u>	<u>Grade 11</u>	<u>Grade 12</u>	
ACADEMIC TECHNOLOGY	English	English-Honors/Academic	English-Honors/Academic		English-Honors/Academic	Amer Hist 2	Amer	
					Gov / Law	Economics		
	Acc Alg 2 / Geom					Soc Studies Elective		
						Acc. Geom/Alg 2		
	Basic Bio/Bio I					Acc. Trig/Trig		
						Scientific Calc/Bus Calc		
						Chem 1	PE /	
	Fr 1 / Span 1 PE/Health	Fr 2 / Span 2	Physics	Health		Bio 2/Chem 2/ Language/Soc Sci/or Sci		
						PE/Health		
						Language or Soc Sci		
	Elective					Elective		
							Chem I Lab /	
						Studyhall	Elective	
							Elective	
	Arts & Humanities	Elective. Elective	Elective			Elective		
APPLIED TECHNOLOGY	English	English	English		English	Amer Hist 2	Amer	
					Gov / Law	Economics		
	Acc Alg 2/Geom					Soc Studies Elective		
						Geom/Alg 2/Geom		
	Basic Bio/Bio I PE/Health	Phys Sci/Earth & Space	Earth & Space			Trig/ Alg 2/Bus Math	Bus	
						Math/Bus Calc/Pre Calc		
						Science Tech & Society		
	Industrial Arts Survey Elective	Arch Cad/Mech Cad/Adv IA	Architectural Cad			PE/Health		
						PE / Health		
						Elective		
						Elective		
						Elective		
	Arts & Humanities	Elective	Elective	Elective		Elective		
						Elective		



BUSINESS  
TECHNOLOGY

English

English

English

English

Amer Hist 2

Amer Gov / Law

Economics

Soc

Studies Elective

Geom/Alg 1

Geom/Alg 2/

Trig/ Alg 2/Bus Math

Bus. Calc/BusMath/Pre Calc

Phys Sci/Earth & Space

Basic Bio/Bio I

Earth & Space

Science Tech & Society

PE/Health

PE/Health

PE / Health

Multimedia Design

Intro To Business

Accounting I

Business Elective

Business Elective

Arts & Humanities

Elective

Desktop Publishing

Elective

Elective

VOCATIONAL

English

English

English

TECHNOLOGY

Amer Hist 2

Amer Gov/Law

PE/Health

English

Bus Math/Pre Calc

Geom/Alg 2

Geom/Alg I

Econ/AGL

Science Tech & Soc/E & S

Phys Sci/Earth & Space

Bio

Alg 2/Bus Math

Vocational Program

PE/Health

PE/Health

Vocational Program

Arts & Humanities

Elective

Elective

Elective

Elective

## GRADE 9 - 12 COURSE OFFERINGS

857 Architectural CAD (2010-11) 1.000

### ENGLISH CREDITS

107 English 9	1.000
<b>109 HONORS ENGLISH 10*</b>	1.000
110 Academic English 10	1.000
<b>112 HONORS ENGLISH 11*</b>	1.000
113 Academic English 11	1.000
<b>115 HONORS ENGLISH 12*</b>	1.000
116 Academic English 12	1.000
133 Speech (11-12)	0.500
134 Creative Writing I (10-11-12)	0.500
135 Creative Writing II (10-11-12)	0.500

### ART

700 2-D Studio	1.000
702 3-D Studio	1.000
704 4-D Studio	1.000

### PHYSICAL EDUCATION

906 Physical Education & Drug & Alcohol 9, 10,11	0.500
<b>907 12 ADVANCED PE</b>	0.500

### SOCIAL STUDIES

204 American History II	1.000
217 American History III	1.000
205 American Govt/Law	1.000
206 Western Civilization	1.000
210 Economics	1.000
218 Social Psychology	1.000

### HEALTH EDUCATION

905 Health	0.500
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### DRIVER EDUCATION

740 Driver Education	0.250
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### MATHEMATICS

<b>312 ALGEBRA II</b>	1.000
<b>313 ACCELERATED ALGEBRA II</b>	1.000
311 Algebra I	1.000
<b>314 GEOMETRY</b>	1.000
<b>315 ACCELERATED GEOMETRY</b>	1.000
<b>317 TRIGONOMETRY</b>	1.000
<b>318 ACC TRIGONOMETRY</b>	1.000
<b>309 PRE-CALCULUS</b>	1.000
<b>320 BUSINESS CALCULUS*</b>	1.000
<b>321 SCIENTIFIC CALCULUS*</b>	1.000
308 Business Math	1.000

### MUSIC

770 Senior High Chorus	1.000 Every Day
771 Senior High Chorus	0.500 EOD
755 Band	1.000 Every Day
754 Band	0.500 EOD

### GIFTED

955 9 Gifted	0.500
	(Optional)
955 10 Gifted	0.500
	(Optional)
955 11 Gifted	0.500
	(Optional)
955 12 Gifted	0.500 (Optional)

### SCIENCE

413 Basic Biology	1.000
403 Biology	1.000
<b>404 BIOLOGY II*</b>	1.500
410 Physical Science	1.000
<b>405 CHEMISTRY I</b>	1.500
<b>406 CHEMISTRY II*</b>	1.000
408 Earth and Space Science	1.000
<b>407 PHYSICS</b>	1.500
409 Science Tech & Society (STS)	1.000

### ADDITIONAL OPPORTUNITIES

970 Int Academic Studies-Semester 1	0.2500 each semester
971 Int Academic Studies-Semester 2	0.2500 each semester

NOTE\* As of 1999-2000 school year, students who are taking these courses and maintaining a grade of AC@ or above will have a weighted .05 bonus added to their overall grade point average at the end of the year.

**NOTE\*\* All courses that appear in LARGE PRINT have pre-requisites or entrance requirements that students must meet in order to take the course. Please read course descriptions for specific information.**

### FOREIGN LANGUAGES

600 Spanish I	1.000
<b>601 SPANISH II</b>	1.000
<b>602 SPANISH III</b>	1.000
<b>603 SPANISH IV</b>	1.000
604 French I	1.000
<b>605 FRENCH II</b>	1.000
606 FRENCH III	1.000
607 FRENCH IV	1.000

### BUSINESS EDUCATION

514 Introduction to Business	1.000
515 Computer Information Process	1.000
518 Desktop Publishing I	1.000
<b>519 DESKTOP PUBLISHING II</b>	1.000
520 Multimedia Design I	1.000
522 Mktg & Small Bus Mgmt	1.000
524 Accounting I	1.000
<b>525 ACCOUNTING II</b>	1.000
526 Multimedia Design II	1.000

### CLARION COUNTY CAREER CENTER PROGRAMS

60 Allied Health Science	78 Ac of Al Health (Seniors)
61 Auto Technology	62 Tourism & Marketing Ser
63 Construction Technology	64 Cosmetology Styling Ac
65 Culinary Arts & Hospitality	66 Diesel Technology
67 Police Science	
	68 Welding and Fabrication
<b>69 Computer Networking</b>	<b>70 Industrial Technology</b>

ONE YEAR OPTIONS AT THE CAREER CENTER (See Page 18, 19)

Note: The North Clarion County School Board has adopted the policy that no student will be permitted to start or continue in a vocational-technical program if they cannot maintain normal progress towards graduation. Students will have to make-up the deficiency in summer school or by being tutored

### INDUSTRIAL TECHNOLOGY CREDITS

852 Industrial Arts Survey	1.000
<b>853 ADVANCED INDUSTRIAL ARTS</b>	1.000
856 Mechanical CAD (2009-10)	1.000

## **COURSE DESCRIPTIONS**

### **ENGLISH**

#### **107 - English 9** - (5 periods/week - 2 semesters, 1 credit)

Grade 9 English consists of the study of grammar, composition, semantics, print media and news, speech, parliamentary practices, and a novel study.

#### **109 - Honors English 10\*** - (5 periods/week - 2 semesters, 1 credit) (Weighted)

Honors English 10 is an intensive reading and writing course designed especially for the college-bound student who is an avid reader and who has the desire to learn more than the obvious or superficial. Included are the study of literature (drama, short story, nonfiction, poetry, Greek mythology, the legends of Arthur, and the novel), composition, and short research papers. Supplemental texts include The Picture of Dorian Gray, West Side Story, and Romeo and Juliet. **To enroll, a student must have the recommendation of his/her ninth grade English instructor and at least an A average in English 9.**

#### **110 - Academic English 10** - (5 periods/week - 2 semesters, 1 credit)

This course includes the study of literature -- Shakespearean drama, Greek mythology, short story, nonfiction, poetry, and the Legends of Arthur. Also included are grammar, composition, short research projects, and a short research paper.

#### **112 - Honors English 11\*** - (5 periods/week - 2 semesters, 1 credit) (Weighted)

Honors English 11 is an intensive reading and writing course designed especially for the college-bound student who is an avid reader and has the desire to learn more than the obvious or superficial. This course includes a survey of American Literature. Also included are research papers and composition. Supplemental texts include The Scarlet Letter, The Turn of the Screw, The Great Gatsby, and Death of a Salesman, and/or The Glass Menagerie. **To enroll, a student must have the recommendation of his/her English 10 instructor and have at least a B average in Honors English 10 or an A average in Academic English 10.**

#### **113 - Academic English 11** - (5 periods/week - 2 semesters, 1 credit)

This course presents a survey of American Literature from 1500 to the present. Also included are compositions, vocabulary building, and a research paper. Supplemental texts may include: To Kill a Mockingbird, A Separate Peace and/or Of Mice and Men.

#### **115 - Honors English 12\*** - (5 periods/week - 2 semesters, 1 credit) (Weighted)

Honors English 12 is an intensive reading and writing course designed especially for the college-bound student who is an avid reader and has the desire to learn more than the obvious or superficial. This course includes a survey of British literature from 449 to present day. Also included are research papers and compositions. Supplemental texts may include Macbeth, Lord of the Flies, Night, and/or Frankenstein. **To enroll, a student must have the recommendation of his/her English 11 instructor and must have at least a B average in Honors English 11 or an A average in Academic English 11.**

#### **116 - Academic English 12** - (5 periods/week - 2 semesters, 1 credit)

This course presents a survey of British literature from 449 until present day. Included are research, compositions, reviews, and vocabulary building. Supplemental texts may include Lord of the Flies and Macbeth.

#### **133 - Speech** - (every other day - 2 semesters, .50 credit) GRADES 11 & 12

A definite must for students preparing for their graduation projects, this is a class in basic verbal and nonverbal communication skills. Students will prepare and present various types of speeches. They will learn to organize and present ideas to the group and to communicate in a clear and confident manner.

**134 - Creative Writing I** - (every other day - 2 semesters, .50 credit) GRADES 10, 11, 12

This course is highly recommended for students intending to pursue any form of higher education or students that have an interest in writing. Writing styles to be covered include poetry, fiction, drama, and essays.

**135 - Creative Writing II** - (every other day - 2 semesters, .50 credit) GRADES 10, 11, 12

This course is designed for those with an interest in journalism. Students will write news articles and editorials, create newspaper layouts, work on interviewing and reporting skills, and help publish a school newsletter.

**SOCIAL STUDIES**

**204 - American History II** - (5 periods/week - 2 semesters, 1 credit)

This course deals with American History from 1865 to the present. It deals with the rise of industrialism, American expansion overseas, both World Wars, and the Vietnam War. Various problems on the domestic front are considered and America's role in world affairs is examined.

**217 - American History III-** (5 periods/week - 2 semesters, 1 credit) GRADES 11-12

American History III is a survey of United States history from 1945 to the present. This course is a study of the political, economic, social, and cultural evolution of the United States since World War II. Topics may include: Korean War, 1960's radicalism, the Cold War, Vietnam, Watergate, Conflicts in the Middle East, and changes in the American Society.

**205 - American Government/Law** - (5 periods/week - 2 semesters, 1 credit)

This course is a study of government and politics, including the philosophical and constitutional foundations, governing institutions, political behavior, and major public policy issues. This course also deals with the basic concepts in law and involves a series of case studies.

**206 - Western Civilization** - (5 periods/week - 2 semesters, 1 credit) GRADES 11-12

This course studies several Western Civilizations, including Egypt, Mesopotamia, Ancient Greece, and Ancient Rome. It also examines Europe during the Medieval and Renaissance periods. The course emphasizes cultural, sociological, and anthropological views of these societies in order to understand the impact of these civilizations on life today.

**210 - Economics** - (5 periods/week - 2 semesters, 1 credit)

This course is designed to give students a broad introduction to economic concepts and how they can contribute to a better understanding of the world around us. Applied and develops concepts to current economic and social problems and issues.

**218 - Social Psychology** - (5 periods/week - 2 semesters, 1 credit) GRADES 11-12

This is a survey course in social science exploring the issues of sociology and psychology. The class examines processes of human interaction and the social influences on individuals and groups. Instruction explores basic concepts of theoretical and practical research perspectives on social and psychological processes and issues such as human development and behavior.

**MATHEMATICS** Due to math sequences, all students must meet prerequisites and have teacher recommendation. **All** students are required to take **Algebra I**, **Geometry**, and **Algebra II** to meet the mathematics requirements.

The mathematics sequence is as follows:

Grade 7			7 Acc Pre-Algebra	
			7 Pre-Algebra	
			7 Applied Mathematics	
Grade 8			8 Accelerated Algebra I	
			8 Algebra I	
			8 Pre- Algebra	
Grade 9			Accelerated Algebra II	
			Geometry	
			Algebra I	
Grade 10	Accelerated Geometry	Acc Alg II/Alg II	Alg II/Geometry	
Grade 11	Accelerated Trigonometry	Acc Trig/ Trig	Algebra II/Bus Math	
Grade 12			Sci Calc/Bus Calc/Pre-Calc	Sci
			Calc/Bus Calc/Pre-Calc	Bus
			Math/Trig/Acct II	

**311 - Algebra I** - (5 periods/week - 2 semesters, 1 credit)

This course covers the following topics: patterns, order of operations, operations with integers, solving equations in one variable, proportions, applications of percents, graphing and writing linear equations, solving systems of linear equations, powers and exponents, polynomials and factoring and quadratic equations.

**312 - Algebra II** - (5 periods/week - 2 semesters, 1 credit)

This course is an expansion/continuation of the Algebra I course. Included will be the study of rational and irrational numbers, fractional and negative exponents, polynomials, quadratic equations, and the solution of word problems. Prerequisite: Algebra I.

**313 - Accelerated Algebra II** - (5 periods/week - 2 semesters, 1 credit)

This course is an integrated approach to advanced topics in algebra. Included will be the study of linear equations, linear systems, quadratic equations and applications, functional notation, exponents, polynomials, and rational functions. This course will offer a more challenging level. **Prerequisite: Accelerated Algebra I or Teacher Recommendation.**

**314 - Geometry** - (5 periods/week - 2 semesters, 1 credit)

This course deals with geometric symbols, terminology, and figures. The properties of polygons, parallel and perpendicular lines, and properties of congruency and similarity are used in geometric proofs. Perimeter and area of two-dimensional figures, and volume and surface area of solid figures are explored. Algebraic skills will be exercised in solving geometric based problems. **Prerequisite: Algebra I.**

**315 - Accelerated Geometry** - (5 periods/week - 2 semesters, 1 credit)

This course deals with geometric symbols, terminology, and figures. The properties of polygons, parallel and perpendicular lines, and properties of congruency and similarity are used in geometric proofs. Perimeter and area of two-dimensional figures, and volume and surface area of solid figures are explored. Algebraic skills will be exercised in solving geometric based problems. This course will offer a more challenging level. **Prerequisite: Accelerated Algebra II or Teacher Recommendation.**

**317 - Trigonometry** - (5 periods/week - 2 semesters, 1 credit)

Trigonometry is literally the study of triangles. Using concepts developed in Algebra II and Geometry (prerequisites), the notion of the circular functions (sine and cosine, e.g.) will be developed. Extensive application problems will be discussed. Supplemental topics include the complex numbers and logarithms. **Prerequisite: Algebra II, Geometry.**

**318 - Accelerated Trigonometry** - (5 periods/week - 2 semesters, 1 credit)

Trigonometry is literally the study of triangles. Using concepts developed in Algebra II and Geometry (prerequisites), the notion of the circular functions (sine and cosine, e.g.) will be developed. Extensive application problems will be discussed. Supplemental topics include the complex numbers and logarithms. This course will offer a more challenging level. **Prerequisite: Accelerated Algebra II, Geometry, or Teacher Recommendation.**

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**309 – Pre-Calculus** - (5 periods/week - 2 semesters, 1 credit)

Pre-calculus topics will include functions and graphs, polynomial and rational functions, exponential and logarithmic functions, trigonometry functions, systems of equations and inequalities, matrices and determinants, sequences and series, analytic geometry and limits, and an introduction to derivatives. **Prerequisite: Trigonometry.**

**320 - Business Calculus\*** - (5 periods/week - 2 semesters, 1 credit) (Weighted)

This course provides an introduction to Calculus for students interested in managerial, social or biological science. Topics include functions, limits and continuity, differentiation, applications of differentiation integration, exponential and logarithmic functions, and an introduction to multivariable calculus. **Prerequisite: Algebra II and Geometry.**

**321 - Scientific Calculus\*** - (5 periods/week - 2 semesters, 1 credit -) (4 University of Pittsburgh credits are available)

This course is the standard first course in a basic calculus sequence at the University of Pittsburgh for all mathematics science, engineering, and statistics students. Topics covered include functions and graphs, limits, derivatives, trigonometric functions, applications of the derivatives, integrals, applications of the integrals, and exponential and logarithmic functions. **Prerequisite: Accelerated Trigonometry or Teacher Recommendation.** (Weighted)

**308 - Business Math** - (5 periods/week - 2 semesters, 1 credit) GRADES 11-12

Topics discussed will include mortgages, car payments, annuities, insurance premiums, percentages, and other personal and business mathematics applications.

**SCIENCE**

**413 – Basic Biology** - (5 periods/week - 2 semesters, 1 credit)

Basic biology is an introductory ninth grade course designed to help students develop content area, reading and study skills as they investigate biological concepts. Students will study a variety of concepts including the nature of life, ecology, cells, genetics, evolution and diversity of life. **Enrollment is contingent upon teacher recommendation.**

**403 - Biology I** - (5 periods/week - 2 semesters, 1 credit)

Biology I is a ninth grade course designed to introduce unifying themes in biology. Students will study a variety of concepts including the nature of life, ecology, cells, genetics, evolution and diversity of life.

**404 – Biology II** - (7/8 periods/week - 2 semesters, 1.50 credits) (Weighted)

Biology II deals with an in-depth study of cells, genetics, molecular biology, evolution, vertebrate physiology, plant physiology and ecology. Biochemistry will be incorporated in all sections of the course. **Minimum requirements: Juniors – “B” in Chemistry I, Seniors – “C” average in Chemistry I, and teacher approval.**

**405 - Chemistry I** - (7/8 periods/week - 2 semesters, 1.50 credits)

Chemistry I is a course that introduces students to the basic concepts of chemical behavior. Through

discussion and experimentation students will study properties of matter, atomic and molecular structure, chemical reactions and stoichiometry. **Prerequisite: AB@ or better in Algebra I or higher math and Biology I or Physical Science.**

**410 - Physical Science** - (5 periods/week - 2 semesters, 1 credit)

Physical Science consists of two primary areas of study. The first half of the year will examine the basics of Chemistry. Through experiments, group problem solving and classroom discussion; you will examine the chemical and physical properties of matter, the structure of matter, the periodic table of elements, the family of elements, and the various chemical reactions occurring in our natural world. During the second half of the year, you will investigate through experiments and problems concepts dealing with motion, forces, work, power, simple machines, energy, and heat. **Recommended that Algebra I has been taken or currently being taken.**

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**406 - Chemistry II** - (5 periods/week - 2 semesters, 1 credit) (Weighted)

This course will deal with an in-depth study of acids and bases, solutions, colligative, properties, reaction rates, energy and disorder, oxidation and reduction reactions, and nuclear chemistry. The topics will be investigated through experimentation and discussions used to clarify and direct student learning. **Minimum requirement – B in Chemistry I or teacher approval.**

**407 - Physics** - (7/8 periods/week - 2 semesters, 1.50credits) GRADES 11 and 12

Physics is a branch of science that examines the mathematical relationships that exist in the physical world that surround everyone. Physics investigates objects as small as the atom and as large as our universe. This class spends much of its time in laboratory situations and cooperative group problem solving and analysis. Topics that will be investigated are velocity/acceleration, forces, gravity, vectors, two dimensional and periodic motion, work and power, simple machines, kinetic and potential energy, elastic and inelastic collisions, phases of matter, heat, and heat engines. **Prerequisites are completion of Geometry with C or better, concurrently taking Algebra II/Trigonometry, or recommendation of teacher.**

**408 Earth/Space Science** - (5 periods/week - 2 semesters, 1 credit) GRADES 10, 11 and 12

Earth/Space Science consists of: 1) Meteorology, the study of weather and climate, 2) Hydrology and oceanography, the study of the earth's waters, 3) Geology, the geology section will be mainly involved with weathering, erosion and land forms, 4) The last nine weeks will be devoted to mapping the earth=s surface and astronomy.

**409 - Science, Technology, and Society (STS)** - (5 periods/week - 2 semesters, 1 credit) GRADES 11 and 12

This course will examine how science, technology, and society has affected our surrounding world. The earth's population can be divided into two categories: human and wildlife. These two populations are affected by the land, water, atmosphere, energy and habitat surrounding them. The course will investigate through classroom discussions, activities, and laboratory experiments the effects on the two populations. Lastly, the course will examine how one can work towards various solutions for these problems.

**BUSINESS EDUCATION**

**514 Introduction to Business** - (5 periods/week - 2 semesters, 1 credit) GRADES 9-10

This course introduces students to the business environment of the United States. Students will gain a solid understanding of how the economy operates, learn to make informed decisions as consumers and gain an understanding of personal banking, credit, the stock market, and individual career planning. This course is intended for those students with an interest in business.

**515 Computer Information Processing** - (5 periods/week - 2 semesters, 1 credit) GRADES 9-12

This course expands student knowledge in computer operations with a variety of business applications.

These applications include using windows, word processing, spreadsheets, creating database management, and the integration of all the software programs learned. This course is a must for everyday computer use.

**520 Multimedia Design** - (5 periods/week - 2 semesters, 1 credit) GRADES 10-12

This course will focus on producing outstanding presentations using various forms of multimedia resources such as Microsoft PowerPoint, scanners, digital projectors and cameras. Students will learn search techniques for exploring the Internet and will understand how it operates. Students will also gain an in-depth understanding of the information resources available and how to utilize them.

**526 Multimedia Design II** - (5 periods/week - 2 semesters, 1 credit) GRADES 10-12

Students will create and manage Web Pages. Areas covered will include HTML, web page elements, hyperlinks, templates, tables, frame, image maps, formatting and publishing a Web Page. Students must be able to work well independently as well as with a small group. Dream weaver software will be utilized as well as scanners, digital cameras, and the Internet to build the web site. **Multimedia I is not a pre-requisite.**

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**518 Desktop Publishing I** - (5 periods/week - 2 semesters, 1 credit) GRADES 9-12

Using Desktop Publishing software, students will learn graphic design tools to display text and graphics on attractive posters, flyers, menus and newsletters. They will also learn to run text around graphics and create column and multiple pages by using correct line spacing, typeface and font size.

**519 Desktop Publishing II** - (5 periods/week - 2 semesters, 1 credit) GRADES 10-12

Desktop Publishing II is strictly a computer production course. This course is designed for producing school programs. Students will also produce promotional brochures, pamphlets, newsletters and photo calendars using Adobe Page maker and Microsoft Publisher. This course is intended for the creative student. **Pre-requisite - Must have a C or better in Desktop Publishing I.**

**524 Accounting I** - (5 periods/week - 2 semesters, 1 credit) GRADES 9-12

This course provides students with the basic skills needed to control the financial operations of a business. Basic accounting theory and applications are presented throughout the course for the operation of sole-proprietorships, partnerships and corporations. Business simulations and hands-on computer applications give students the exposure to how a business really operates. Students who enroll in this course should plan to enter college in the business field, be entrepreneurs or want to gain a general understanding of how to keep accounting records for a business.

**525 Accounting II** - (5 periods/week - 2 semesters, 1 credit) GRADES 10-12

Accounting II reinforces the concepts presented in Accounting I and introduces advanced theories and concepts related to uncollectible accounts, inventory and depreciation methods, deferrals and accruals and management decision making. Business simulations and hands-on computer operations are used to further acquaint the students with real-world business applications. Students who complete the Accounting I and Accounting II sequence needed for the Accounting Technician certificate will have Accounting II credited as a Math course. **Prerequisite: Accounting I with grade of a C or better.**

**522 Marketing and Small Business Management** (5 periods/week - 2 semesters, 1 credit) GRADES 10-12

This course is designed to give students an understanding of business practice. Developing a business, financial planning, and basic marketing techniques will be learned. Students will have the opportunity to develop, design, and market their own product. Computers will be utilized to enhance instructional materials. Students will be responsible for designing, purchasing and marketing school merchandise and supplies, and operating the School Store.

**FOREIGN LANGUAGES**

**600 - Spanish I** - (5 periods/week - 2 semesters, 1 credit)



This course introduces students to the basic language skills of reading, listening, writing, and speaking. Students learn to compare and appreciate different cultures studied.

**601 - Spanish II** - (5 periods/week - 2 semesters, 1 credit)

Students acquire more vocabulary and grammatical skills of the target language. Pronunciation patterns and intonation are refined. The four basic skills of language learning are expanded upon and knowledge of the target culture(s) is broadened. Class will be conducted using more of the target language than in level one.

**602 - Spanish III** - (5 periods/week - 2 semesters, 1 credit)

This course provides the students with an opportunity to review and practice the language skills previously acquired. Also, new and more complex linguistic structures are introduced, allowing students to communicate more freely in the target language. They will begin to read and analyze literature of medium difficulty in the target language. The conversational approach of language learning is stressed and cultural connections are enhanced through meaningful classroom discussions. The majority of the class will be conducted in the target language.

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**603 - Spanish IV** - (5 periods/week - 2 semesters, 1 credit)

This course continues the development of the language skills of listening, speaking, reading and writing. Emphasis is on oral proficiency and composition. In addition, reading skills and vocabulary are broadened through supplemental literature. Classes are conducted in the target language and students are required to respond in the target language.

**604 - French I** - (5 periods/week - 2 semesters, 1 credit)

This course introduces students to the basic language skills of reading, listening, writing, and speaking. Students learn to compare and appreciate different cultures studied.

**605 - French II** - (5 periods/week - 2 semesters, 1 credit)

Students acquire more vocabulary and grammatical skills of the target language. Pronunciation patterns and intonation are refined. The four basic skills of language learning are expanded upon and knowledge of the target culture(s) is broadened. Class will be conducted using more of the target language than in level one.

**605 - French III \*** - (5 periods/week - 2 semesters, 1 credit)

This course provides the students with an opportunity to review and practice the language skills previously acquired. Also, new and more complex linguistic structures are introduced, allowing students to communicate more freely in the target language. They will begin to read and analyze literature of medium difficulty in the target language. The conversational approach of language learning is stressed and cultural connections are enhanced through meaningful classroom discussions. The majority of the class will be conducted in the target language.

**605 - French IV \*** - (5 periods/week - 2 semesters, 1 credit)

This course continues the development of the language skills of listening, speaking, reading and writing. Emphasis is on oral proficiency and composition. In addition, reading skills and vocabulary are broadened through supplemental literature. Classes are conducted in the target language and students are required to respond in the target language.

**NOTE\*: French III and French IV Availability determined yearly, based on student enrollment, teacher availability, teacher recommendations and other considerations. There is no guarantee that either course will be offered in any given year. Students who want a 4 year foreign language sequence should enroll in Spanish.**

**ART**

**700 - 2-D Studio** - (5 periods/week - 2 semesters, 1 credit) Grades 9-12

Through classroom exercises, students will explore a range of experiences and materials that will expand

their understanding of what drawing is and can be. The class will study line, mark, gesture, value and

composition. While the primary emphasis will be on developing confidence and facility with drawing mediums, students will also be asked to consider the products of the class as personal, social, and cultural expression. Discussion will be an important part of this class. This studio is also structured around a combination of traditional and non-traditional painting techniques designed to give the student a successful experience in painting with naturalistic color, i.e. color as we see it. Students will be painting from good quality color photographs found in books and magazines in order to provide a constant source that won't change with the varying light conditions in the studio.

**702 - 3-D Studio** - (5 periods/week - 2 semesters, 1 credit) Grades 9-12

Students will work primarily in clay, but wood, plaster and stone will also be available and encouraged. This studio will be exploring where ideas come from; expanding our resources through meditation and sharing inspirational material; and experimenting with specific notions. It will look at both the philosophical and practical issues around the form an idea takes. Drawing as a possible first step in the manifestation process will be used to clarify ideas, as a developmental/refinement process and/or a presentation tool.

**704 - 4-D Studio** - (5 periods/week - 2 semesters, 1 credit) Grades 9-12

This introductory studio will focus on the elements of Time and Space. Photographs capture and record particular moments in Time and Space for us due primarily to the existence of light. Therefore, major emphasis will be placed upon the basics of light. The physics of light will be discussed and students will see how it all can be captured by traditional as well as non-traditional photographic means. This course will emphasize the use of the camera as a creative tool. Students will be taught how to use Digital cameras and related equipment; how to download and access their photos; and how to produce good black and white as well as color prints.

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**MUSIC**

**770/771– Senior High Chorus** - (5 periods/week or every other day- 2 semesters, .50 or 1 credit) Gr. 9-12

A wide variety of vocal literature representing different genres and cultures will be studied and performed. Movement, dance, and drama will be applied to performances where appropriate. Emphasis will be placed on creating, performing, responding to, and understanding music. No prerequisites required – highly recommended for students interested in theater, dance, vocal, and instrumental music. This course is a pre-requisite for attending County and District Chorus.

**755/754 - Band** - (up to 5 periods/week - 2 semesters, 1 credit; or .50 credit if taken every other day) Gr. 9-12

This course is designed to develop the student's aesthetic sensitivity, which is the intellectual and emotional response to music. Great attention is paid to developing the basic skills necessary to become a competent musician such as proper breathing, instrument technique, and possession of a detailed knowledge of the fundamentals of music. This is accomplished through the concert band performance medium and weekly small group lessons. Quality concert band literature ranging from the Baroque, Classical, Romantic, and Contemporary eras is used to teach concepts and percepts that are vital to an aesthetic musical experience. Students are expected to demonstrate knowledge gained through a live performance where they are able to express themselves, and share their aesthetic experience with others.

**INDUSTRIAL ARTS**

**852 - Industrial Arts Survey** - (5 periods/week - 2 semesters, 1 credit)

The student will embark on a project-based exploration of wood fabrication, metal fabrication and an introduction to computer assisted drafting. For each project, students will complete a blueprint, develop a materials list, complete a cost estimation, and construct the final project. A semester will be spent on metal fabrication and a semester on wood fabrication. Students are responsible for the cost of all project materials and consumable supplies.

**853 – Advanced Industrial Arts Survey** - (5 periods/week - 2 semesters, 1 credit)

This course offers the student the opportunity for a more detailed, "advanced" study of wood and

fabrication. Students will use the Computer Aided Drafting Program (CAD KEY) to produce formal plans to be followed in the construction of subsequent projects. All projects must meet prior approval of the instructor to assure a challenging learning experience before any design efforts begins. Review and testing of safety issues will be a pre-cursor to any hands on project work. Although completion of the Mechanical CAD course is not a pre-requisite, experience in this area would be extremely helpful to the student. **Pre-requisite: B or better in Industrial Arts Survey and teacher recommendation.**

**856 - Mechanical Computer Assisted Drafting** - (5 periods/week - 2 semesters, 1 credit) (Offered 2009-10)

Mechanical CAD will introduce students to computer aided mechanical drafting. Students will experience drawing generation using CADKEY software. Specific content will include identification of CAD system components, basic CAD Operation, and drawing production. This project based course focuses on mechanical drawing, predicated with some experience in technical drawing or board drawing in the 8<sup>th</sup> grade industrial arts course.

**857 - Architectural Computer Assisted Drafting** - (5 periods/week - 2 semesters, 1 credit) (Offered 2010-11)

Architectural CAD will introduce students to computer-aided architectural drafting. Students will experience drawing generation using CADKEY software. Specific content will include the identification of CAD system components, basic CAD operation, and drawing production. This project-based course focuses on architectural drawing with a house design as a culminating project.

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## **PHYSICAL EDUCATION**

**906 - 9-10-11 Physical Education / Drug and Alcohol Education** - (every other day - 2 semesters, .50 credit)

The students' activities include flag football, soccer, team activities, gatorball, California kickball, volleyball, hockey, speedball, and softball. Students will also participate in the weight room and the fitness room.

**907 - 12 Advanced PE** - (every other day - 2 semesters, .50 credit)

The students' activities include flag football, soccer, team activities, gatorball, California kickball, volleyball, hockey, speedball, and softball. To enroll, students must have an average of 85% their junior year along with the recommendation of a physical education teacher. **Pre-requisite 1.5 credits of physical education**

## **HEALTH EDUCATION**

**905 - Health** - (every other day - 2 semesters, .50credit)

This course includes units on sexually transmitted diseases, human sexuality, death and dying, cancer, nutrition and weight control, noninfectious diseases, and drugs and alcohol.

## **DRIVER EDUCATION**

**740 - Driver Education** - (10th Grade --.25credit)

The course offers a concentrated study involving the person and the automobile. This phase, such as you and the highway system, basic driving maneuvers, forces and laws that control driving, driver performance and driver responsibilities are covered. This classroom phase will prepare a person for the driving phase.

**(Offered only as an elective.)**

**Driver-Training--Behind the Wheel** - (6 hours, 0 credit)

The driving phase consists of a minimum of six hours of instruction in actual driving situations. The

course is individually scheduled during summer months. Students must complete a request form which is available in the high school office.

## **GIFTED**

**955 - 9 Gifted**

Gifted 9-12 will receive .50 credit

**955 - 10 Gifted**

or may be taken on a pass/fail basis for no credit.

**955 - 11 Gifted**

**\*\*Must sign up for credit or no credit at the beginning of the year.**

**955 - 12 Gifted**

Students who have been identified as gifted have the opportunity to design educational programs to meet their educational and personal needs. Students will develop individual, independent projects, as well as having the opportunity to compete in academic contests, debates, and field trips related to areas of small group study.

## **ADDITIONAL OPPORTUNITIES:**

**970 - INTEGRATED ACADEMIC STUDIES** - (every other day - 2 semesters, .25 credit each semester)

This course is offered for students in grades 9 through 12 who are interested in competing in the Academic Sports League and Academic Decathlon students will engage in research projects designed to enhance study skills and academic success. The content of the course will be determined by the current United States Academic Decathlon which spans 10 disciplines. Each year the change in theme results in a new curriculum. Grading will be on a pass/fail basis. In addition to the material studied in class, students are required to attend weekly after school meetings and are eligible to qualify for the competitions. Students must schedule separately for each semester. Semester 1 will focus on art, music, science, social studies, economics, and math. Semester 2 will focus on language and literature, speech, interview, and essay.

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## **CLARION COUNTY CAREER CENTER**

### **55 - Cooperative Vocational Education**

Cooperative education or "co-op" is a method of training that combines vocational instruction with the real world, on-the-job experience. Qualified seniors may spend one-half day, or its equivalent, on the job. The co-op coordinator will assist the student in finding a job. Students must maintain acceptable grades at their sending school, have good attendance, and provide their own transportation to and from the work site. The student gains valuable experience, improved work ethics, and a paycheck. (You must have at least a 75% in all classes at each interim and at the end of each nine-week grading period to continue in co-op.)

**60 - Allied Health Science** - (5 half days/week - 2 semesters, 3 credits)

This curriculum is designed for all individuals interested in medical careers. The program includes background information in medical, nursing, dental, laboratory, imaging, and rehabilitative occupational areas. Individual course selections include dental assisting, nursing assisting, and medical assisting.

Nurse=s Aide and Dental Radiologist certifications are available upon completion of related programs.

**78 - Academy of Allied Health** - (5 half days/week - 2 semesters, 3 credits)

A new program for **seniors** only, the program is designed to provide students with a better understanding and an appreciation for careers in the health field. As students are meeting the required academic courses necessary for the pursuit of a health career in higher education, they are also participating in a hands-on career exploration program. Students will go to health care or medical sites for three days a week for three weeks on a rotation basis. Every fourth week is spent in the classroom for clinic reports.

**61 - Automotive Technology** - (5 half days/week - 2 semesters, 3 credits)

Students can pursue the eight Automotive Service Excellence (ASE) certifications. Areas to be covered include engine repair, automatic and manual transmissions, suspension and steering, brakes,

electrical/electronic systems, heating/air conditioning, and engine performance. Students may also be certified by NATEF and a state license inspector.

**62 – Tourism & Marketing** - (5 half days/week - 2 semesters, 3 credits)

One of the world's major industries is the tourism and lodging business. With the right training and motivation in this new program, you could work your way up to becoming a general manager or a marketing executive in a resort hotel, a cruise ship or a country club. This area offers more career options than most and the work is varied. Students will have the opportunity to work one day per week at a hotel for three years. Two levels of certification by the American Hotel & Lodging Association are offered.

**63 - Construction Technology** - (5 half days/week - 2 semesters, 3 credits)

This program prepares students to find employment in Clarion County=s largest industry. Students enrolled in this program receive training in carpentry, electric, plumbing, and masonry. After an introductory year, the student moves on to building a modular house. This gives hands on experience with a full-scale project. Skills learned may also be of value when owning a home or rental property. OSHA certification may be obtained.

**64 - Cosmetology Styling Academy** - (5 half days/week - 2 semesters, 3 credits)

The Academy=s curriculum consists of hair styling, permanent waves, hair coloring, bleaching, straightening, hair testing, and scalp care. Also included in this program is instruction about the skin, which includes facial treatments and cosmetics. Students learn proper manicuring methods as well as sales theory, maintaining client=s hair record cards, state laws, and diseases of the skin. Students may be eligible to become a certified cosmetologist after completing 1250 hours of training.

**65 - Culinary Arts & Hospitality** - (5 half days/week - 2 semesters, 3 credits)

Students in this program can prepare themselves with the training necessary for entry-level jobs in the food service industry. Certification by the National Restaurant Association is offered. Job possibilities include prep cook, baker, waiter, or waitress.

**66 - Diesel Technology** - (5 half days/week - 2 semesters, 3 credits)

The skills students learn in diesel technology include but are not limited to preventive maintenance, electrical trouble shooting, air system trouble shooting, engine and drive component disassembly, brake trouble shooting, air conditioning, and basic welding. This program also prepares students to go out on co-op, or on to a technical school, or full-time employment. - 16 -

**67 – Police Science** - (5 half days/week - 2 semesters, 3 credits)

Police Science prepares students for a variety of exciting careers in law enforcement such as correction officer, security officer, and probation officer. Law enforcement is studied for two years. The third year is spent covering private security and loss prevention. Physical fitness is highly stressed. Students are taught self-defense as well as investigating techniques. This program helps to prepare the student for entrance into the police academy. Students who complete the three-year program with a “B” average and instructor’s recommendation will receive **six credits** from Butler County Community College when enrolling into the criminology program.

**68 - Welding and Fabrication** - (5 days/week - 2 semesters, 3 credits)

Students are trained to become successful in the welding fields using state of the art equipment. The different types of welding include Oxy-acetylene, arc, MIG, TIG, pipe, and dual shield. Plasma cutting, blue print reading and pipe welding will also be taught. Certification from the American Welding Society may be obtained. Most senior students participate in Co-op their senior year gaining valuable skills and a paycheck.

**69 - Computer/Networking/Information Systems** - (5 half days/week - 2 semesters, 3 credits)

This program will prepare individuals with the technical skills required to support networks and network users. Possible skill development includes network design, security, web site design, computer repair, digital video, and sound production. Possible certifications include A+, Network+, and Microsoft Networking. Certifications may be eligible for college credits.

**70 - Industrial Technology** - (5 half days/week - 2 semesters, 3 credits)

For the student who likes to learn how things work, this new program will be interesting as well as challenging. Skills in the nine stations will include CAD/CAM, electrical/electronics, robotics, thermal, hydraulics, material testing, mechanical, plastics, and project prototyping with a CNC machine. Students apply their knowledge in designing and manufacturing a battlebot car. A competition determines who had the best design.

## **ONE YEAR OPTIONS AT THE CAREER CENTER**

Seniors may attend the Career Center to gain experience, explore an occupation, or learn a skill. Some of the training students can receive in one year will make them employable in a more specialized field or upper-entry level jobs, which could mean more money for them to earn while attending college or to begin working upon graduation. Students will attend the Clarion County Career Center for one half day and attend North Clarion High School for one half day.

In one year of enrollment, students may achieve the following:

### **Allied Health Science**

Nursing  
Assista  
nt  
certifica  
tion

Dental Radiology certification w/Dental Assisting  
Anatomy & Physiology (College Prep Course)  
Introduction to Health Careers

### **Automotive Technology**

Electric  
al  
System  
s (ASE  
certifiab  
le)

Suspension & Steering (ASE certifiable)  
Engine Performance (ASE certifiable)  
Certified State License Inspector

### **Computer Networking/Information Technology**

Principl  
es of  
Hardwa  
re

Computer Networking  
Software installation

### **Construction Technology**

Plumbi  
ng (1<sup>st</sup> 9  
weeks)

Electrical (2<sup>nd</sup> 9 weeks)

Rough Framing (3<sup>rd</sup> 9 weeks)

Exterior Finish (4<sup>th</sup> 9 weeks)

**Culinary Arts/Hospitality**

Food  
Service  
Careers

Sanitation  
Tools & Equipment

Cooking Methods & Techniques

**Diesel Technology**

Prevent  
ive  
Mainten  
ance

Engine Operating Principles  
-17-  
Gas Engine Rebuilds  
Set valves, fuel injectors  
Gas welding and braising  
Transmission rebuilds

**Industrial Technology**

Electrical systems (AC/DC)  
Mechanical Drive Systems  
Metallurgy

**Police Science**  
(offered on a three year rotation & not offered every year)

Law Enforcement  
Private security  
Criminal investigation  
Loss prevention  
PA Criminal and Vehicle Code

**Tourism & Marketing Services**

Introduction to Tourism and lodging

**Welding & Fabrication**

Shielde  
d Metal  
Arc  
Welding

Plasma Arc Cutting

Blueprint Reading  
Oxyacetylene Cutting & Welding

## PROCEDURAL REQUIREMENTS

1. Each student must prepare the registration form filling in all information as requested.
2. Students must take a minimum of six credits that result in no more than ten (10) studyhalls per week.
3. A parent or guardian is to sign the registration form.
4. All registration forms are to be returned to homeroom teachers **one week after the orientation program**.
5. The guidance counselor shall review registration forms and make arrangements to conference with students to resolve questions and inappropriate requests.
6. Consideration for adding or dropping a course shall be accomplished by arranging a meeting with the guidance counselor.
7. No changes will be made after 5 days of the new school year except under the following conditions:
  - a. An error in scheduling was made.
  - b. The physical health of the student becomes unsatisfactory and a drop is required. It will be shown as a "W" (withdrawal) on the transcript. A written statement from a physician will be necessary in this situation.
  - c. The student is not willing to remain in a scheduled elective course after five (5) school days. The student may drop the course with a failing grade for the course being recorded on the transcript. This drop will be possible only if the student can still meet the minimum number of classes per week and requires a written request signed by the parents.
8. Students are encouraged to utilize this Course Selection Guide, teacher input, parental suggestions and the guidance counselor's recommendation when selecting courses.

## SUPPORT SERVICES

**TUTORING PROGRAM** – In school tutoring by school tutor during free periods

**PEER TUTORING** – In school tutoring by student tutors during free periods

**AFTER SCHOOL TUTORING** – Students stay until 3:15 with teacher, ride elementary bus home

**GIFTED SERVICES** – Advanced studies for qualified students

**SPECIAL EDUCATION SERVICES** – Academic services for qualified students

**GUIDANCE** - Students who are having a problem or a concern about their educational, emotional, physical, mental or social growth can go directly to the guidance counselor and request help. All students can feel comfortable in seeking advice from a teacher, counselor, nurse, or principal. Our main concern is your growth and your ability to cope with change.