

## UNION CITY AREA HIGH SCHOOL 2011-2012 COURSE SELECTION GUIDE

The following information has been prepared to assist students in the selection of courses for grades 9 through 12.

Since students are given an opportunity to select many of the courses they will pursue in high school, it is necessary to form a plan or sequence of courses they will study. This educational plan should be formulated carefully and should take into account such factors as the student's interests, abilities, educational and vocational goals. It is the goal of the Guidance Department to assist students with the career development process which will ultimately better prepare students for productive employment and success in life. Students will become more familiar with career pathways and the courses that will provide the foundation to prepare them for employment or post-secondary training.

It is suggested that both parents and students read this booklet thoroughly and work together to complete the course selections on the Power School Website. Remember after the course selections have been completed, **parents sign a copy of the course requests** and the student then returns it to the Guidance Office as soon as possible.

### **Block Scheduling**

On February 8, 1999, the Union City Area School District Board of Directors approved a change to block scheduling which began with the 1999-2000 school year. The type of intensive schedule that Union City has implemented is called a 4 X 4 Block. In the 4 X 4 Block schedule students have four classes during the first semester and four different classes the second semester. Each class period is eighty-four minutes long. One benefit of this form of Block Scheduling is to reduce the number of courses that students have at one time, which should allow for greater concentration of study for each course. The extra time in classes also allows students to take a more active role in their learning as well as have more time for lab work, greater use of technology, and more available time for guided practice and clarification of homework assignments.

### **- GENERAL INSTRUCTIONS -**

#### **Scheduling Process**

Students will meet with the Guidance Counselor in groups to review this booklet and initiate the course selection process.

Every student must complete their course selections via the computer. Included should be courses the student needs to meet graduation requirements plus electives. **Students are expected to obtain a parent signature** on the Course Request Form in order to ensure approval of the student's course selections. Parents with questions or concerns should call Mrs. Dawson, the HS Guidance Counselor, at 438-7673 ext 5413, or email her at [kdawson@ucasd.iu5.org](mailto:kdawson@ucasd.iu5.org).

Students are to return their Course Request Forms to the High School Guidance Counselor. The Counselor will review course selections and meet individually with students as needed. Changes to students' schedules must be made no later than 7 days after the start of the course. Students withdrawing from a course after this time may receive a failing grade for that marking period.

### GRADUATION REQUIREMENTS

1. Graduation will be based on the completion of sufficient courses in grades 9 to 12.
2. Students must schedule courses to fill 8 class periods per year.
3. Minimum credits in grades 9 through 12 must be earned as follows:

#### **Requirements Beginning with Class of 2005**

English	4 Credits
Social Studies	3.5 Cr (.5cr Econ. req)
Science	4 Credits
Mathematics	4 Credits
Phys. Ed. *	1 Cr(CPR/First Aid)
Health	.5 Credit
Computer	1 Credit
Arts & Humanities	1 Credit
Family/Consumer Science	.5 Credit
Electives	8.5 Credits

<b>Total</b>	<b>28 Credits</b>
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All seniors are also required to complete a research paper and senior project. Students must also complete junior & senior requirements for job shadowing and college visits. All students must meet state standards and/or achieve proficiency on the PSSA or the UCASD local assessment. \*Students can fulfill physical education requirements by participating in 2-sports per year. Community Service credit can be earned, 60 documented hours per .5 credit.

### REQUIRED HIGH SCHOOL COURSES

<u>9th Grade</u>	<u>Yearly Credits</u>	<u>10th Grade</u>	<u>Yearly Credits</u>
English 9	1	English 10	1
U.S. History	1	World Cultures	1
Science	1	Science	1
Math	1	Math	1
Physical Education	.50	Health	.50
Career/Comp Appl.	.50	Physical Education	.50
Family/Consumer Sci	.50	Arts & Humanities	.5
Arts & Humanities	.50	Electives	2.5
Electives	2.0		
<u>11th Grade</u>	<u>Yearly Credits</u>	<u>12th Grade</u>	<u>Yearly Credits</u>
English 11	1	English 12	1
American Government	1	Economics	.5
Science	1	Science	1
Math	1	Math	1
Computer/Futures	.5	Electives	4.5
Electives	3.5		

### COMMENCEMENT PARTICIPATION

***Any Student who has not successfully completed all required credits and proficiency testing for graduation will not be permitted to participate in commencement.***

## **PROMOTION REQUIREMENTS**

All required subjects failed in any grade must be passed before being promoted to the next grade. Some required subjects failed in certain grades may be made up during the next school year if enough electives have been passed and scheduling permits. Otherwise, failed subjects must be passed in summer school or by a certified tutor prior to the next school year.

**All required subjects failed in grades 9 through 11 and the PSSA or UCASD test must be passed before a student can be promoted to grade 12.**

## **REQUIRED AND ELECTIVE COURSES OFFERINGS**

(all courses are one credit except where noted)

\* indicates a weighted course

### **MATHEMATICS**

Algebra I A & B - 9  
Algebra I - 9-10  
Algebra II - 10-12  
Integrated Math -11(1 or .5 cr)  
Consumer Math - -12  
Geometry - 9-12  
\*Algebra II/III 10  
\*Algebra III - 11-12  
\*Trigonometry - 11-12 (.5 cr.)  
\*Pre-Calculus/Trigonometry - 11  
\*Calculus - 12  
S.A.T. Math Preparation - 11 (.5 cr)  
Math Rocks-Stats & Probability -11-12 (.5 cr)  
Math Fundamentals 9-12 (IEP)

### **SCIENCE**

Physical Science – 9  
Applied Biology – 10  
Biology - 9 -10  
Applied Chemistry - 11-12  
Chemistry - 10-12  
General Science - 11-12  
Human Biology- 12  
\*Physics - 11-12  
\*Anatomy & Physiology - 12  
\*Advanced Chemistry - 11-12  
\*Advanced Physics - 12  
Forensic Biology -10-12 (.5cr)  
Radiation Biology 10-12 (.5cr)  
Intro Anatomy/Sports 10-12 (.5cr)  
Animal Physiology 10-12 (.5cr)  
Nanotechnology 10-12 (.5cr)

### **ENGLISH**

English - 9  
Advanced English - 9  
English - 10  
\*Advanced English - 10  
English - 11  
\*Advanced Junior English - 11  
English - 12  
\*Advanced Senior English - 12  
Reading Enrichment- 9-12(.5)  
H.S. Read 9-12 (1cr)  
H. S. Journalism - 9-12 (.5 cr.)  
Media Production I & II- 9-12 (.5 cr.)  
Creative Writing- 9-12(.5cr)  
Intro to Theater- 9-12(.5cr)  
Play Production- 9-12(.5cr)  
S.A.T. Verbal Preparation - 11 (.5 cr)  
Language Arts Fundamentals 9-12(IEP)  
Reading Fundamentals 9-12 (IEP)

### **SOCIAL STUDIES**

American History - 9  
World History - 10  
United States Government - 11  
Economics - 12 (.5cr)  
Intro to Psychology - 10-12 (.5cr)  
Intro to Child Psychology - 10-12 (.5cr)  
Introduction to Criminal Justice -11-12 (.5cr)  
Intro to Archaeology - 11-12 (.5cr)  
Intro to Sociology - 10-12 (.5cr)

## **FOREIGN LANGUAGE**

French I - 9-12  
French II - 10-12  
\*French III - 11-12  
\*French IV - 11-12  
Spanish I - 9-12  
Spanish II - 10-12  
\*Spanish III - 11-12  
\*Spanish IV - 11-12  
\* Indep.Study-Spanish V, French V  
\* CAPE/COWL -11-12  
Foreign Cultures & World Travel 9-12 (.5 cr)  
Intro to American Sign Language A & B -10-12(.5cr ea)

## **ART (.5 cr)**

Beginning Drawing & Painting - 9-12  
Advanced Drawing & Painting - 10-12  
Arts & Crafts - 9-12  
Ceramics - 9-12  
Jewelry Fabrication - 10-12  
Weaving & Fibers- 9-12  
Stain Glass Design- 9-12  
Graphic Design I & II - 9-12  
Graphic Design II/Game Design - 10-12

## **INDUSTRIAL ARTS (1 or .5cr)**

Home Maintenance/Repair- 9-12  
Manufacturing Tech 9-12  
Mechanical Drawing/CAD I-III - 9-12  
Power Technology I-II - 9-12 (.5 cr.)  
Electrical Power- 9-12 (.5cr)

## **FAMILY & CONSUMER SCIENCES**

Modern Living I - 9-10 (.5cr)  
Mod. Liv. II/Peer Ed.- 10-12 (.5cr)  
Culinary Essentials I & II- 10-12 (.5cr)  
Child Development 10-12(.5cr)  
Elem. Ed. Intern- 11-12 (1cr)

## **BUSINESS / TECHNOLOGY**

Career Study/Computer Appl.- 9-12 (.5 cr.)  
Computer App II/Futures 11-12 (.5cr.)  
Spreadsheet - 10-12 (.5 cr.)  
Entrepreneurship 11-12 (.5cr)  
Yearbook- 9-12 (.5cr)  
Computer Programming B - 10-12 (1cr)  
Accounting I & II (1cr)  
Internship, Elementary Internship -12

## **MUSIC (.5 cr.)**

Marching Band - 9-12  
Concert Band - 9-12  
Guitar - 9-12  
Percussion Ensemble- 9-12  
Jazz Band- 9-12  
Glee Chorus - 9-10  
UC Honors Chorale - 10-12  
Musical Theater Production - 9-12  
Piano Keyboard -9-12

## **HEALTH & PHYSICAL EDUC. (.5 cr.)**

Health - 10  
Physical Education - 9/10, 11/12  
Physical Fitness 9-12  
Recreational Activities 9-12  
Team Sports 9-12  
Drivers Education - 10-12

## **TECHNICAL (4cr)**

Offered at Erie County Technical School (10-12)  
VT Auto body Repair  
VT Automotive Technology  
VT Child Care Services  
VT Commercial Arts  
VT Computer Programming  
VT Construction Trades  
VT Cosmetology  
VT Culinary Arts & Foods Service  
VT Drafting & Design  
VT Electrical Engineering  
VT Electronics  
VT Facility Engineering  
VT Graphic Communications  
VT Health Assistant  
VT Metal Fabrication  
VT Plastics Technology  
VT Tool & Die  
VT Networking Technologies -12  
VT Hospitality Management - 12

### **Regional Choice Initiative (RCI) all courses 1.0 Credit and weighted grades**

\*RCI College Course Offerings/Dual Enrolment vary each semester and are available at the High School Guidance Office to **eligible** students. Students are required to pay reduced college tuition fees per course and textbook costs for these courses.

### **PREREQUISITES**

Certain courses at Union City Middle/High School have prerequisites. Subjects I, II, III, IV sequence imply increasing difficulty and must be taken in order. Some courses require students to have successfully completed a specific previous course with at least a "A, B or C" average.

### **ADVANCED CLASSES AND WEIGHTED COURSES**

The term "Advanced" is used to identify upper-level course offerings. Advanced course contents are especially demanding, requiring higher level thinking and greater homework. The following courses are weighted: Physics, Anatomy & Physiology, Advanced Chemistry, Advanced Physics, Advanced English 10, Advanced Junior English, Advanced Senior English, Adv. Algebra II/III, Trigonometry, Algebra III, Pre-Calculus/Trigonometry, Calculus, French III & IV,V, Spanish III & IV,V, and RCI College/Dual Enrolment Courses. The weighting scale for these courses is A=5, B=4, C=3, D=2, F=0. Enrolment in these courses requires an "A or B" grade for the prerequisite course or a recommendation made by the subject area teacher.

### **COLLEGE ENTRANCE REQUIREMENTS** (Grades 9 through 12 - Inclusive)

Graduation from high school does not necessarily qualify a student for admission to a college or professional school. Each student desiring admission to a college, university or professional school must select those subjects which meet the admission requirements of the school of their choice and must attain a high level of work.

Although college entrance requirements vary among the different colleges and professional schools, a majority of schools require: English - 4 credits; Mathematics - 3 credits (Algebra I & II, and Geometry); Foreign Languages - 2 credits; (required in about fifty percent of the schools--recommended in three or four-year sequence); Social Studies - 3 credits; Science- 3 credits (includes biology and chemistry). Elective subjects vary with different schools and the major course of study. Specific information can be obtained by reviewing the college or university catalogues or by consulting the guidance counselor at the high school. **Students should also complete 1-4 college entrance examinations, such as the SAT's ([www.collegeboard.com](http://www.collegeboard.com)) or ACT's ([www.actstudent.org](http://www.actstudent.org)), during the spring of their junior year.** Registration information for these exams is also available in the high school guidance office.

### **COLLEGE VISITS AND JOB SHADOWING**

As part of UCHS graduation requirements all students in grades 11 & 12 must visit and document at least 2 colleges and/or college/career fairs. Students must also complete a job shadowing experience prior to graduation. Visits are excusable from school with documentation.

## **CAREER PATHWAYS/RECOMMENDED COURSE SEQUENCE'S**

Each career pathway or area of concentrated study identifies a sequence of courses that will prepare high school graduates for either post-secondary training or employment. Students will explore their interests and gather information about jobs and post-secondary training opportunities during their Career and Social Studies courses, and in meetings with the Guidance Counselor. Students at UCHS are asked to select a career cluster pathway that is related to their interests. In each cluster area students will also have a choice of post secondary track. **Once a student has identified a career pathway they must review the recommended courses and develop an individualized career plan(ICP) with their parents & counselors.**

**\*\*\*STUDENTS ARE ASKED TO SELECT ONE CAREER CLUSTER AND PATHWAY:**

### Arts & Communication (AC) Career Pathway

This pathway is designed to cultivate students' interests, awareness and application to careers related to, interpretation, application and production of visual, verbal and written work. Department of Education Career Cluster focus areas within this pathway are: **Arts/ Audio-Visual Technology & Communications.**



### Business & Information Technology (BIT) Career Pathway

This pathway is designed to cultivate students' interests, awareness and application to careers related to the world of business, finance, and information services. The pathway focus areas are: Department of Education Career Cluster focus areas within this pathway are: **Marketing, Sales & Service; Finance; Information Technology; Business Management & Administration.**



### Engineering & Industrial Technology (EIT) Career Pathway

This pathway is designed to cultivate students' interests, awareness and application to careers related to technologies necessary to design, develop, install and maintain physical systems. Department of Education Career Cluster focus areas within this pathway are: **Architecture & Construction; Manufacturing; Science, Technology, Engineering & Mathematics; Transportation, Distribution & Logistics.**



### Science & Health (SH) Career Pathway

This pathway is designed to cultivate students' interests, awareness and application to careers related to physical and behavioral sciences. It involves the planning, managing and providing of therapeutic services, diagnostic services, health information and biochemistry research and development. Department of Education Career Cluster focus areas within this pathway are: **Health Science; Agriculture, Food & Natural Resources; Science, Technology, Engineering & Mathematics.**



### Human & Civil Services (HCS) Career Pathway

This pathway is designed to cultivate students' interests, skills and experiences for employment in careers related to one's community, family and human needs. Department of Education Career Cluster focus areas within this pathway are: **Human Services; Education & Training; Hospitality & Tourism; Law, Public Safety & Security; Government & Administration.**

# **CAREER PATHWAY PLAN OF STUDY**

**This four year Career Pathway Plan of Study should serve as a guide as you develop your Individualized Career Plan (ICP). All plans should meet UCASD graduation requirements. The Pathway courses that you select will depend on the PATHWAY and POST SECONDARY TRACK you choose.**

9 <sup>th</sup> Grade		10 <sup>th</sup> Grade		11 <sup>th</sup> Grade		12 <sup>th</sup> Grade	
<b>* English</b> <input type="checkbox"/> English 9 <input type="checkbox"/> Adv. English 9 <input type="checkbox"/> Language Arts Fundamentals(I.E.P)		<b>* English</b> <input type="checkbox"/> English 10 <input type="checkbox"/> Adv. English 10 <input type="checkbox"/> Language Arts Fundamentals(I.E.P)		<b>* English</b> <input type="checkbox"/> English 11 <input type="checkbox"/> Adv. Junior English <input type="checkbox"/> Language Arts Fundamentals(I.E.P)		<b>* English</b> <input type="checkbox"/> English 12 <input type="checkbox"/> Adv. Senior English <input type="checkbox"/> Language Arts Fundamentals(I.E.P)	
<b>* Social Studies</b> <input type="checkbox"/> American History		<b>* Social Studies</b> <input type="checkbox"/> World History		<b>* Social Studies</b> <input type="checkbox"/> U.S. Government		<b>* Social Studies</b> <input type="checkbox"/> Economics	
<b>* Science</b> <input type="checkbox"/> Physical Science <input type="checkbox"/> Biology		<b>* Science</b> <input type="checkbox"/> Biology <input type="checkbox"/> Applied Biology <input type="checkbox"/> Chemistry		<b>* Science</b> <input type="checkbox"/> Chemistry <input type="checkbox"/> Applied Chemistry <input type="checkbox"/> Adv. Chemistry <input type="checkbox"/> Physics		<b>* Science</b> <input type="checkbox"/> Chemistry <input type="checkbox"/> Adv. Chemistry <input type="checkbox"/> General Science <input type="checkbox"/> Physics <input type="checkbox"/> Adv. Physics <input type="checkbox"/> Anatomy & Physiology <input type="checkbox"/> Human Biology	
<b>* Math</b> <input type="checkbox"/> Algebra I A & B <input type="checkbox"/> Algebra I <input type="checkbox"/> Geometry <input type="checkbox"/> Math Fundamentals(I.E.P)		<b>* Math</b> <input type="checkbox"/> Algebra II <input type="checkbox"/> Algebra II/III <input type="checkbox"/> Geometry <input type="checkbox"/> Math Fundamentals(I.E.P)		<b>* Math</b> <input type="checkbox"/> Integrated Math <input type="checkbox"/> Algebra II <input type="checkbox"/> Algebra III <input type="checkbox"/> Trigonometry <input type="checkbox"/> Pre-Calculus/Trig <input type="checkbox"/> Math Fundamentals(I.E.P)		<b>* Math</b> <input type="checkbox"/> Consumer Math <input type="checkbox"/> Algebra II <input type="checkbox"/> Algebra III <input type="checkbox"/> Trigonometry <input type="checkbox"/> Calculus <input type="checkbox"/> Accounting I <input type="checkbox"/> Math Fundamentals(I.E.P)	
*Physical Education	*Career 9	*Physical Education (10,11,or 12)	* Health	*Computer Application/ Futures (11 or 12)	!Drivers Education (10, 11, 12)	*Computer Application/ Futures (11 or 12)	!Drivers Education (10, 11, 12)
*Modern Living I	!Foreign Language- at least 2 years recommended for 4 year college Or !Pathway Course or open elective	*Arts & Humanities Elective (10, 11, 12)	!Drivers Education (10, 11, 12)	*Physical Education (10,11,or 12)	!Foreign Language- at least 2 years recommended for 4 year college Or !Pathway Course or open elective	*Physical Education (10,11,or 12)	!Foreign Language- at least 2 years recommended for 4 year college (9, 10, 11, 12)
!Pathway Course or open elective	!Pathway Course or open elective	!Foreign Language- at least 2 years recommended for 4 year college (9, 10, 11, 12)	!Pathway Course or open elective	!Pathway Course or open elective	!Pathway Course or open elective	!Pathway Course or open elective	!Pathway Course or open elective

**Required courses (\*) and/or recommended (!) for this PATHWAY**

## ARTS and COMMUNICATIONS (AC) PATHWAY ELECTIVES

This **PATHWAY** is designed to cultivate students' interests, awareness and application to careers related to, interpretation, application and production of visual, verbal and written work.

**NOTE\*\* Before selecting any electives, be sure all requirements have been met. Check the course description pages of this booklet for elective requirements.**

### Career Pathway Focus Areas

\* Arts (A) \* Audio-Visual Technology (AVT) (VA) \* Communications (C)

<u>9<sup>th</sup> Grade</u>	<u>10<sup>th</sup> Grade</u>	<u>11<sup>th</sup> Grade</u>	<u>12<sup>th</sup> Grade</u>
Journalism (PUA) (.5)	Journalism (PUA) (.5)	Journalism (PUA) (.5)	Journalism (PUA) (.5)
Creative Writing (PUA) (.5)	Creative Writing (PUA) (.5)	Creative Writing (PUA) (.5)	Creative Writing (PUA) (.5)
Marching Band (PA) (.5)	Marching Band (PA) (.5)	Marching Band (PA) (.5)	Marching Band (PA) (.5)
Concert Band (PA) (.5)	Concert Band (PA) (.5)	Concert Band (PA) (.5)	Concert Band (PA) (.5)
Guitar (.5)	Guitar (.5)	Guitar (.5)	Guitar (.5)
Percussion Ensemble (PA) (.5)	Percussion Ensemble (PA) (.5)	Percussion Ensemble (PA) (.5)	Percussion Ensemble (PA) (.5)
Jazz Band (PA) (.5)	Jazz Band (PA) (.5)	Jazz Band (PA) (.5)	Jazz Band (PA) (.5)
Glee Chorus (PA) (.5)	Glee Chorus (PA) (.5)		
UC Honors Choir (PA)	UC Honors Choir (PA)	UC Honors Choir (PA)	UC Honors Choir (PA)
Piano Keyboard (PA) (.5)	Piano Keyboard (PA) (.5)	Piano Keyboard (PA) (.5)	Piano Keyboard (PA) (.5)
Musical Production (PA) (.5)	Musical Production (PA) (.5)	Musical Production (PA) (.5)	Musical Production (PA) (.5)
Graphic Design I (VA & PUA) (.5)	Graphic Design I (VA & PUA) (.5)	Graphic Design I (VA & PUA) (.5)	Graphic Design I (VA & PUA) (.5)
	Graphic Design II (VA & PUA) (.5)	Graphic Design II (VA & PUA) (.5)	Graphic Design II (VA & PUA) (.5)
Drawing & Painting (VA & PUA) (.5)	Drawing & Painting (VA & PUA) (.5)	Drawing & Painting (VA & PUA) (.5)	Drawing & Painting (VA & PUA) (.5)
	Advanced Drawing & Painting (VA & PUA) (.5)	Advanced Drawing & Painting (VA & PUA) (.5)	Advanced Drawing & Painting (VA & PUA) (.5)
	Arts & Crafts (VA & PUA) (.5)	Arts & Crafts (VA & PUA) (.5)	Arts & Crafts (VA & PUA) (.5)
<u>9<sup>th</sup> Grade</u>	<u>10<sup>th</sup> Grade</u>	<u>11<sup>th</sup> Grade</u>	<u>12<sup>th</sup> Grade</u>
Weaving & Fibers (VA) (.5)	Weaving & Fibers (VA) (.5)	Weaving & Fibers (VA) (.5)	Weaving & Fibers (VA) (.5)
Ceramics (VA) (.5)	Ceramics (VA) (.5)	Ceramics (VA) (.5)	Ceramics (VA) (.5)
	Jewelry Fabrication (VA) (.5)	Jewelry Fabrication (VA) (.5)	Jewelry Fabrication (VA) (.5)

Stain Glass Design (VA) (.5)	Stain Glass Design (VA) (.5)	Stain Glass Design (VA) (.5)	Stain Glass Design (VA) (.5)
Introduction to Theater (PA) (.5)	Introduction to Theater (PA) (.5)	Introduction to Theater (PA) (.5)	Introduction to Theater (PA) (.5)
	Play Production (PA) (.5)	Play Production (PA) (.5)	Play Production (PA) (.5)
Media Production I (VA & PUA) (.5)	Media Production I (VA & PUA) (.5)	Media Production I (VA & PUA) (.5)	Media Production I (VA & PUA) (.5)
	Media Production II (VA & PUA) (.5)	Media Production II (VA & PUA) (.5)	Media Production II (VA & PUA) (.5)

**• Erie County Technical School (ECTS)**

<u>9<sup>th</sup> Grade</u>	<u>10<sup>th</sup> Grade</u>	<u>11<sup>th</sup> Grade</u>	<u>12<sup>th</sup> Grade</u>
*During 9 <sup>th</sup> grade year (if interested), students must fill out appropriate paperwork and get approved for any ECTS program.	*Graphic Communications (10-12) (3 year program) (VA & PUA)	*Graphic Communications (10-12) (3 year program) (VA & PUA)	*Graphic Communications (10-12) (3 year program) (VA & PUA)
	*Art & Design for Business (10-12) (3 year program) (VA & PUA)	*Art & Design for Business (10-12) (3 year program) (VA & PUA)	*Art & Design for Business (10-12) (3 year program) (VA & PUA)

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**BUSINESS and INFORMATION TECHNOLOGY (BIT) PATHWAY**

This **PATHWAY** is designed to cultivate students' interests, awareness and application to careers related to the world of business, finance, and information services.

**NOTE\*\* Before selecting any electives, be sure all requirements have been met. Check the course description pages of this booklet for elective requirements.**

**Career Pathway Focus Areas**

\*Information Technology (IT)

\* Business Management & Administration (BMA), \* Finance (F) \* Marketing and Sales (MS)

<u>9<sup>th</sup> Grade</u>	<u>10<sup>th</sup> Grade</u>	<u>11<sup>th</sup> Grade</u>	<u>12<sup>th</sup> Grade</u>
Media Production I (MS) (.5)	Accounting I (BM) (.1)	Accounting I or II (BM) (.1)	Accounting I or II (BM) (.1)
	Media Production II (MS) (.5)	Computer Application II (IT) (.5)	Computer Application II (IT) (.5)
	Computer Application II (IT) (.5)	Spreadsheet (F & IT) (.5)	Spreadsheet (F & IT) (.5)
	Spreadsheet (F & IT) (.5)	Computer Programming B (IT & MS) (.1)	Computer Programming B (IT & MS) (.1)
	Medical Office Technology (BM) .5	Medical Office Technology (BM) .5	Senior Pathway Internship (MS, F, IT, BM) (.5)
		Entrepreneurship (BM, MS, IT) .5	Entrepreneurship (BM, MS, IT) .5

<b>Erie County Technical School (ECTS)</b>			
<b>9<sup>th</sup> Grade</b>	<b>10<sup>th</sup> Grade</b>	<b>11<sup>th</sup> Grade</b>	<b>12<sup>th</sup> Grade</b>
*During 9 <sup>th</sup> grade year (if interested), students must fill out appropriate paperwork and get approved for any ECTS program.	*Electronics (10-12) (3 year program) (IT)	*Electronics (10-12) (3 year program) (IT)	*Electronics (10-12) (3 year program) (IT)
	*Computer Information Systems (10-12) (3 year program) (IT)	*Computer Information Systems (10-12) (3 year program) (IT)	*Computer Information Systems (10-12) (3 year program) (IT)
		*Networking Technologies (11-12) (2 year program) (IT)	*Networking Technologies (11-12) (2 year program) (IT)

## **ENGINEERING & INDUSTRIAL TECHNOLOGY (EIT) PATHWAY**

This **PATHWAY** is designed to cultivate students' interests, awareness and application to careers related to technologies necessary to design, develop, install and maintain physical systems.

**NOTE\*\* Before selecting any electives, be sure all requirements have been met. Check the course description pages of this booklet for elective requirements.**

### **Career Pathway Focus Areas**

\* Architecture Construction (C) \* Manufacturing (M) \* Science, Technology Engineering & Math(STEM) \* Transportation, Distribution and Logistics (TDL)

<b>9<sup>th</sup> Grade</b>	<b>10<sup>th</sup> Grade</b>	<b>11<sup>th</sup> Grade</b>	<b>12<sup>th</sup> Grade</b>
Home Maintenance & Repair (C & M) (.5)	Home Maintenance & Repair (C & M) (.5)	Home Maintenance & Repair (C & M) (.5)	Home Maintenance & Repair (C & M) (.5)
Manufacturing (C & M) (.5)	Manufacturing (C & M) (.5)	Manufacturing (C & M) (.5)	Manufacturing (C & M) (.5)
Mechanical Drawing I (ET & C) (.5)	Mechanical Drawing I-3/CAD(ET & C) (.5)	Mechanical Drawing I-3/CAD(ET & C) (.5)	Mechanical Drawing I-3/CAD(ET & C) (.5)
Power Technology I (M, C, ET & TDL)	Power Technology I & II (M, C, ET & TDL)	Power Technology I (M, C, ET & TDL)	Power Technology I (M, C, ET & TDL)
		Intro Nanotechnology(ET) (.5)	Intro Nanotechnology(ET) (.5)
<b>College/University Preparation Recommended SCIENCE Pathway Courses</b>	<b>10<sup>th</sup> Grade</b> Chemistry (.5)	<b>11<sup>th</sup> Grade</b> Chemistry Physics Advanced Chemistry	<b>12<sup>th</sup> Grade</b> Chemistry Physics Advanced Chemistry Advanced Physics
<b>College/University MATH Pathway Courses</b>	<b>10<sup>th</sup> Grade</b> Algebra II/ III	<b>11<sup>th</sup> Grade</b> Algebra III Trigonometry (.5) Pre-Calculus/Trig	<b>12<sup>th</sup> Grade</b> Algebra III Trigonometry (.5) Calculus

## **Erie County Technical School (ECTS)**

<u>9<sup>th</sup> Grade</u>	<u>10<sup>th</sup> Grade</u>	<u>11<sup>th</sup> Grade</u>	<u>12<sup>th</sup> Grade</u>
*During 9 <sup>th</sup> grade year (if interested), students must fill out appropriate paperwork and get approved for any ECTS program.	*Drafting & Design (10-12) (3 year program) (ET)	*Drafting & Design (10-12) (3 year program) (ET)	*Drafting & Design (10-12) (3 year program) (ET)
	*Metal Fabrication (10-12) (3 year program) (M)	*Metal Fabrication (10-12) (3 year program) (M)	*Metal Fabrication (10-12) (3 year program) (M)
	*Automotive Body Repair (10-12) (3 year program) (TDL)	*Automotive Body Repair (10-12) (3 year program) (TDL)	*Automotive Body Repair (10-12) (3 year program) (TDL)
	*Construction Trades (10-12) (3 year program) (C)	*Construction Trades (10-12) (3 year program) (C)	*Construction Trades (10-12) (3 year program) (C)
	*Electrical Engineering (10-12) (3 year program) (ET)	*Electrical Engineering (10-12) (3 year program) (ET)	*Electrical Engineering (10-12) (3 year program) (ET)
	*Tool & Die (10-12) (3 year program) (ET & M)	*Tool & Die (10-12) (3 year program) (ET & M)	*Tool & Die (10-12) (3 year program) (ET & M)

## **HUMAN and CIVIL SERVICES (HCS)** **PATHWAY**

This **PATHWAY** is designed to cultivate students' interests, skills and experiences for employment in careers related to one's community, family and human needs.

**NOTE\*\* Before selecting any electives, be sure all requirements have been met. Check the course description pages of this booklet for elective requirements.**

### **Career Pathway Focus Areas**

- \* Education & Training (ET) \* Law, Public Safety & Security (LPS)
- \* Human Services (HS) \* Hospitality & Tourism (HT)
- \* Government & Public Administration (GPA)

<u>9<sup>th</sup> Grade</u>	<u>10<sup>th</sup> Grade</u>	<u>11<sup>th</sup> Grade</u>	<u>12<sup>th</sup> Grade</u>
	Psychology (CPC, E, HT & LPG) (.5)	Psychology (CPC, E, HT & LPG) (.5)	Psychology (CPC, E, HT & LPG) (.5)
	Sociology (CPC, E, HT & LPG) (.5)	Sociology (CPC, E, HT & LPG) (.5)	Sociology (CPC, E, HT & LPG) (.5)

	Modern Living II (CPC, E & LPG) (.5)	Modern Living II (CPC, E & LPG) (.5)	Modern Living II (CPC, E & LPG) (.5)
	Child Psychology (CPC & E) (.5)	Child Psychology (CPC & E) (.5)	Child Psychology (CPC & E) (.5)
	Culinary Essentials I (HT) (.5)	Culinary Essentials I & II (HT) (.5)	Culinary Essentials I & II (HT) (.5)
		Intro to Criminal Justice (LPG) (.5)	Intro to Criminal Justice (LPG) (.5)
			Senior Pathway Internship (CPC, E, HT, LPG)

**Erie County Technical School (ECTS)**

<u>9<sup>th</sup> Grade</u>	<u>10<sup>th</sup> Grade</u>	<u>11<sup>th</sup> Grade</u>	<u>12<sup>th</sup> Grade</u>
*During 9 <sup>th</sup> grade year (if interested), students must fill out appropriate paperwork and get approved for any ECTS program.	*Cosmetology (10-12) (3 year program) (CPC)	*Cosmetology (10-12) (3 year program) (CPC)	*Cosmetology (10-12) (3 year program) (CPC)
	*Culinary Art (10-12) (3 year program) (HT)	*Culinary Art (10-12) (3 year program) (HT)	*Culinary Art (10-12) (3 year program) (HT)
	*Child Care Services (10-12) (3 year program) (E)	*Child Care Services (10-12) (3 year program) (E)	*Child Care Services (10-12) (3 year program) (E)
			* Tourism & Hospitality Management (12) (1 year program) (HT)

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<p><b><u>SCIENCE &amp; HEALTH (SH)</u></b></p> <p><b><u>PATHWAY</u></b></p> <p>This <b>PATHWAY</b> is designed to cultivate students' interests, awareness and application to careers related to physical and behavioral Sciences. It involves the planning, managing and providing of therapeutic services, diagnostic services, health information and biochemistry research and development.</p>
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**NOTE\*\* Before selecting any electives, be sure all requirements have been met. Check the course description pages of this booklet for elective requirements.**

## Career Pathway Focus Areas

\* Agriculture, Food & Natural Resources (AFN) \* Health Science (HS)

\* Science, Technology, Engineering & Math (STEM)

<u>9<sup>th</sup> Grade</u>	<u>10<sup>th</sup> Grade</u>	<u>11<sup>th</sup> Grade</u>	<u>12<sup>th</sup> Grade</u>
	Modern Living II (HS) (.5)	Modern Living II (HS) (.5)	Modern Living II (HS) (.5)
	Culinary Essentials I (HS)	Culinary Essentials I & II (HS)	Culinary Essentials I & II (HS)
Physical Fitness (HS) (.5)	Physical Fitness (HS) (.5)	Forensic Biology (HS, ST)(.5)	Forensic Biology (HS, ST)(.5)
Recreational Activities (HS) (.5)	Recreational Activities (HS) (.5)	Radiation Biology (HS, ST)(.1)	Radiation Biology (HS, ST)(.1)
Team Sports (HS) (.5)	Team Sports (HS) (.5)	Intro Anatomy/Sports (HS, ST)(.5)	Team Sports (HS) (.5) Intro Anatomy/Sports (HS, ST)(1)
		Animal Physiology (AFN, ST)(.5)	Animal Physiology (AFN, ST)(.5)
	Sociology (HS) (.5)	Sociology (HS) (.5)	Sociology (HS) (.5)
		Intro Archaeology (ST)(.5)	Intro Archaeology (ST)(.5)
		Intro Nanotechnology(ET) (.5)	Intro Nanotechnology(ET) (.5)
			Senior Internship (HS, AFN, ST .5)
<b>College/University Preparation Recommended SCIENCE Pathway Courses</b>			
	<u>10<sup>th</sup> Grade</u>	<u>11<sup>th</sup> Grade</u>	<u>12<sup>th</sup> Grade</u>
	Chemistry (1)	Chemistry (1)	Human Biology(1)
		Physics (1)	Physics (1)
		Chemistry (1)	Advanced Chemistry (1)
		Advance Chemistry (1)	Advanced Physics (1)
			Anatomy & Physiology (1)
<b>College/University Preparation Recommended MATH Pathway Courses</b>			
		<u>11<sup>th</sup> Grade</u>	<u>12<sup>th</sup> Grade</u>
		Geometry (1)	Geometry (1)
		Algebra III (1)	Algebra III (1)
		Trigonometry (1)	Trigonometry (.5)
			Calculus (1)
<b>Erie County Technical School (ECTS)</b>			
<u>9<sup>th</sup> Grade</u>	<u>10<sup>th</sup> Grade</u>	<u>11<sup>th</sup> Grade</u>	<u>12<sup>th</sup> Grade</u>
*During 9 <sup>th</sup> grade year (if interested), students must fill out appropriate paperwork and get approved for any ECTS program.	*Health Assistant (3 year program) (HS)	*Health Assistant (3 year program) (HS)	*Health Assistant (3 year program) (HS)



**OPEN ELECTIVES-Before scheduling check course descriptions and requirements**

<b>BUSINESS &amp; TECHNOLOGY (BIT)</b>	<b>HEALTH &amp; PHYSICAL EDUCATION (SH)</b>	<b>ARTS &amp; HUMANITIES (AC)</b>
Computer Applications II/Futures 10-12 (.5)		Beginning Drawing & Painting- 9-12 (.5)
Spreadsheet 10-12 (.5)		Advanced Drawing & Painting Art- 10-12 (.5)
Computer Programming B 10-12 (.5)	Physical Fitness 9-12 (.5)	Arts & Crafts- 9-12 (.5)
	Recreational Activities 9-12 (.5)	Ceramics- 9-12 (.5)
	Team Sports 9-12 (.5)	Jewelry Fabrication- 10-12 (.5)
		Weaving & Fibers- 9-12 (.5)
		Stain Glass Design- 9-12 (.5)
		Graphic Design I & II- 9-12 (.5)
		Media I & II- 9-12 (.5)

<b>MUSIC (AC)</b>		<b>ALL OTHER COURSES</b>
Marching Band- 9-12 (.5)		S.A.T Preparation-11 (.5)
Concert Band- 9-12 (.5)		
Guitar- 9-12 (.5)		Yearbook-9-12 (.5)
Percussion Ensemble- 9-12 (.5)		Archaeology- 11-12 (.5)
Jazz Band- 9-12 (.5)		Psychology-10-12 (.5) (HCS)
Symphonic Choir- 9-12 (.5)		Sociology-10-12 (.5) (HCS)
UC Honors Chorale- 9-12 (.5)		Driver's Education-10-12 (.5)- <b>Recommended during 10<sup>th</sup> grade year</b>
<b>FOREIGN LANGUAGE</b> (At least 2 years recommended for a 4 year college or university)	<b>INDUSTRIAL ARTS (EIT)</b>	<b>FAMILY &amp; CONSUMER SCIENCES (SH) &amp; (HCS)</b>
French I- 9-12 (1)	Home Maintenance/Repair- 9-12 (.5)	
French II- 10-12 (1)	Manufacturing- 9-12 (.5)	
French III- 11-12 (1)	Mechanical Drawing I-3/CAD- 9-12 (.5)	
French IV- 11-12 (1)	Power Technology I & 2- 9-12 (.5)	Elementary Education Mentorship 12 (.5)
Spanish I- 9-12 (1)	Intro Nanotechnology 11-12 (.5)	Culinary Essentials I & II- 10-12 (.5)
Spanish II- 10-12 (1)		
Spanish III- 11-12 (1)		
Spanish IV- 11-12 (1)		

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## COURSE DESCRIPTIONS

*THE DISTRICT RESERVES THE RIGHT TO DELETE OR ALTER ANY COURSE OFFERINGS BECAUSE OF: CHANGES IN INTEREST, ENROLLMENT OR OTHER UNFORESEEN FACTORS.*

### ART

**CERAMICS** Grades 9-12 (.50 cr) This class will explore the making of aesthetic and utilitarian articles from fired clay. Each student will learn to manipulate clay in a variety of hand-building and wheel-thrown techniques. They will expand their own artistic expression through glazing and firing of their product. The class will study the history and decoration of pottery around the world.

**GRAPHIC DESIGN I** Grades 9-12(.50 cr) Students will receive an overview of the current software used in graphic design for print and interactive media. Students will examine the differences between structured drawing software and image processing/editing software, using Photoshop, the industry standard software for image processing and creation. Students will learn the basics of scanning artwork into a digital format for use in the design process. Students will take artwork into page layout software and prepare it for print or interactive media applications. Areas that may be included for study are: lettering, package design, fashion illustration, computer graphics, interior design, story illustration, logo design, power point presentations, internet web page design and the psychology of advertising. This course meets PA Standards for the Arts and Humanities. *This course cannot be used to fulfil the computer requirement.*

**GRAPHIC DESIGN II/GAME DESIGN** Grades 10-12(.50 cr) This advanced course will introduce students to the basic skills necessary for game design. They will study the various games in the industry and analyze their approach in terms design and development. The student will explore the processes and art of making game elements like story, levels, sound, user interfaces, and levels. This analysis will include an orientation to the gaming market and innovative techniques' impact on it. Finally, the student will merge all these elements into a functional prototype showing their understanding of the game design process. *This course cannot be used to fulfil the computer requirement.* Prerequisite: Graphic Design I with a "B" or better grade and/or teacher recommendation.

**JEWELRY FABRICATION** Grades 10-12(.50 cr) Students will explore jewelry design and fabrication using silver, copper and brass. Students will plan and create their own jewelry pieces and develop his/her skills and manual dexterity in the use of tools and materials They will learn sawing, soldering, stone setting and polishing in the creation of wearable art. Lab Fee \$10 min.

**STAIN GLASS DESIGN** Grades 10-12(.50 cr) This advanced class will explore designing, cutting, and soldering stain glass into several projects. The class will also work together on a large stain glass window that will be installed into the school permanently.

**ARTS & CRAFTS-** Grades 9-12(.50 cr) This class will explore the planning and making of a variety of craft items. Each student will develop his/her skills and manual dexterity in the use of tools and materials by making a variety of useful and functional crafts. Exposure in the class will be from different ages and cultures around the world. A variety of three-dimensional lessons will be explored through crafts such as weaving, basketry, sculpture, and paper Mache.

BEGINNING DRAWING & PAINTING Grades 9-12 (.50 cr) The course is built around a series of problems designed to enhance drawing and painting ability by developing skills in shading, color mixing, and perspective. The content of this class is to provide varied drawing & painting, experiences using a variety of different media. Emphasis is placed on the ability to observe, distinguish and relate to spatial relationships. The student will become familiar with important Artists and movements in art history. Students will learn matting and presentation of finished artwork. The class will include on site drawings outdoors as well as the continued study and rendering of Union City's historic buildings.

ADVANCED DRAWING & PAINTING Grades 10-12(.50 cr) This class continues the exploration started The beginning class. Students will develop advanced skills in shading, color mixing and perspective. The student will become familiar with important Artists and movements in art history. They will continue to explore drawing in all media, painting in watercolor and acrylic, printmaking, and matting of finished artwork. The class will include on site drawings outdoors as well as the continued study and rendering of Union City's historic buildings.: Drawing & Painting with an A or teacher recommendation

WEAVING & FIBERS- Grades 9-12(.50 cr) Students will design and create soft art work with all types of fiber crafts including weaving, macrame', batik, tapestry, and fabric painting. Students will make utilitarian and decorative projects such as rugs, afghans, bags, and wall hangings. This class has a \$10.00 fee.

### **BUSINESS/TECHNOLOGY EDUCATION**

ACCOUNTING I Grades 10-12 Accounting I is a beginning course which gives the student a knowledge of the basic accounting principles. It teaches the student the new business practices, new business terms and new methods of recording and reporting business records. The students will experience hands-on applications using both manual and automated accounting systems. This course can be credited toward meeting a student's fourth math requirement.

ACCOUNTING II Grades 11-12 This course has the student moving from the simple to the complex aspects of accounting. This advanced course is specifically vocational and career oriented. It is planned for the student who has the following objective: To go to post secondary education and to major in accounting, marketing, management, or business procedures and business records so that as a future business owner or manager, he/she can direct an organization and interpret business records. Prerequisite:Accounting I with a "C"

CAREER/COMPUTER APPLICATIONS I Grades 9-12 (.50 cr) This course uses the Windows environment and the integrated program called Microsoft Office. The students' will learns the basics to Word (word processing), and utilize the computer to generate assignments. Students will also identify their interests, abilities and work values through a variety of assessment tools and use the resulting information to research and develop career portfolios.

COMPUTER APPLICATIONS I I/FUTURES Grades 11-12 (.50 cr) This course uses the Windows environment and the integrated program called Microsoft Office. The course will review word processing, database, power point, and spreadsheet in order to perform in depth research and advanced presentation skills in preparation for life after high school. Students will participate in a variety of activities to prepare them for the transition from high school to a future career. Included in this class will be resume writing, interview skills and other soft skills needed in any work environment. Students will develop their career portfolios and utilize the Keys to Work program.

SPREADSHEET Grades 10-12(.50 cr) This class provides the student with an in-depth examination of spreadsheet purpose, design, construction, and functions. The student will understand the relationship of spreadsheets in integrated software to its other components. This class will be mathematics intensive and will thus enable the student to apply previous study into an electronic spreadsheet, and organize it. The student will understand and apply the many built-in functions, create their own formulas and use the graphing capabilities of the spreadsheet. The student will choose and use the best method of presentation according to his/her purpose.

COMPUTER PROGRAMMING Grades 10-12 (1cr) Applications such as web design and hypertext programming will be used to teach these skills. Students will progress to using HTML programming language. Prerequisites: Algebra, Previous Computer Course

ENTREPRENEURSHIP Grades 11-12(.50 cr) This are a specialized business course designed to provide students the skills needed to effectively organize, develop, create, and manage their own business. Comprised of three modules (Basic: Starting Your Business; Intermediate: Operating Your business; and, Advanced: What You Need to Know to Grow), emphasis is placed on the functions of marketing: distribution, financing, marketing information management, pricing, product/service management, promotion, and selling. Additional topics to be addressed are assessment of personal skills, the components of the free enterprise system and its place in our global economy, human relations and interpersonal skills, the importance of business ethics, and the role quality and service play in business. Students will develop a written business plan for a business of their choice.

YEARBOOK PRODUCTION Grades 9-12 (.50 cr) This course will provide students with an opportunity to be involved in the production of the UCHS yearbook. Instruction will be provided in the areas of: photoshop - computer image handling and use of scanners and digital cameras, pagemaker - setting up the yearbook, working with graphics, page submission and proof corrections, photography - students will be assigned to cover different school events to take pictures, write captions & articles, yearbook sales & advertisements: making spreadsheets, balancing budgets, working with book & Ad sales. *This course cannot be used to fulfil the computer requirement.*

INTERNSHIP/WORK EXPERIENCE Grade 12 A work experience has been organized with the cooperation of local industries and trades to provide the student/learner who has the proper qualifications with the opportunity to further his knowledge and skill in the chosen occupational field during the school year. The student/learner will participate Monday through Friday for one block and also will receive one elective credit each semester towards graduation. Participation is determined by students meeting minimum requirements and by the needs of local employers. Students can also work within the school assisting school personnel with various duties. Grading is based on submission of weekly logs and employer evaluations.

MENTORSHIP/ ELEMENTARY ED INTERN Grade 12 This is a school-based program in which students assist teachers as classroom tutors. Students will be placed as teachers' assistants in the Elementary and/or Middle School, students are assigned to specific teachers and classes to provide academic assistance to younger students. Participation is determined by students meeting certain academic standards and with the recommendation of the high school principal, guidance counselor, and assigned teachers.

## ENGLISH

ENGLISH 9 The English 9 curriculum has as its primary objective the development within each student of an “improved degree of literacy;” that is, the ability to write not only correct but truly effective prose, and the ability to read correctly, make judicious value judgments, and appreciate literature. Through the reading of short stories, novels and drama, plus the completion of related writing assignments, the ninth-grade course attempts to equip the student with an improved competency in reading, writing, speaking and listening that will enable him to be a success in his studies.

ADVANCED ENGLISH 9 The curriculum for this class is the same as regular English 9 with the addition of research and documentation; higher level grammar, usage and mechanics; and additional analytical writing and critical thinking in relation to literature. Requirements: Grade “B” or better in 8th grade English and teacher recommendation.

ENGLISH 10 – World Literature: This class consists of reading and analyzing prose from all over the Earth – from the beginning of recorded time through the present. We will also focus on composition, oral communication and critical thinking. The students will develop competency in English usage and mechanics through reading and analyzing text. Skills measured on the PSSA exam are studied, intensely, in 10th grade English. The study of grammar is interrelated with their literary pursuits and other classroom activities.

\*ADVANCED ENGLISH 10 -World Literature: This weighted course is designed for the 10th grade student who wishes to take a challenging curriculum in preparation for college. The basic English class material is covered at an accelerated rate, as well as the study of complex literary elements and writing strategies. This class is reading intensive and more emphasis is placed on a college-level vocabulary and advanced grammar skills. Numerous written compositions will be required. Requirements: Grade “B” or better in 9th grade English, teacher recommendation and completion of summer reading assignments.

ENGLISH 11 Students in the eleventh grade will be exposed to a survey course in American literature with emphasis on writing, enhancing vocabulary skills, and recognizing and using literary terminology. This course presents to the students many facets of American literature which have taken place during our brief history. Letters, articles, essays, drama, short stories, poetry and novels will be taught to improve the student’s knowledge and appreciation of our literary heritage. The writing component consists of the student’s writing some of the same types of literature using grammar, mechanics and usage skills. Students in English 11 complete the preliminary research and structure of Senior Project, which includes career assessment, research of three careers from three career clusters, introduction to job shadowing, writing, time management and organization.

\*ADVANCED JR. ENGLISH Grade 11 In this weighted class novels such as *Of Mice and Men*, *The Scarlet Letter* and other classic pieces of literature will be read in their entirety, along with classic American stories and poems which will be read to supplement the text. Special preparation will be given in advanced vocabulary and college-level grammar. Additional writing will be emphasized. Compositions, research papers and college application essays will be written and showcased in a portfolio. Students are required to complete a summer reading requirement prior to entering this course. Prerequisite: Grade of “A” or “B” in Advanced English 10 and teacher recommendation. Students in Advanced English 11 complete the preliminary research and structure for Senior Project, which includes career assessment, research of three careers from three career clusters, introduction to job shadowing, writing, time management and organization.

ENGLISH 12 The senior English Literature textbook (McDougal, Littell) covers all major literary periods: Anglo-Saxon, Medieval, Renaissance, Restoration, Romantic, Victorian, and Twentieth Century. A knowledge of and appreciation for all types of literature is emphasized. A thesis paper and a senior project are required for graduation. The bulk of time will be spent on reading literature, writing essays, and increasing the student's vocabulary. A 3-ring binder kept by the student will contain all course work. Public speaking, grammar, research papers, skills needed for college, and famous books will be included to round out the scope of education. Guest speakers will speak on careers, motivation, and goal setting.

\*ADVANCED SR. ENGLISH Grade 12 This is a weighted course that uses the same textbook in English literature as the regular English 12 students, but at an accelerated speed. In addition, more emphasis will be placed on college-level vocabulary and advanced grammar, and the writing of literary papers. A thesis paper and a senior project are required for graduation. Any gaps in the student's English background will attempt to be filled by this course in their final preparation for college. Famous novels not yet read will be discussed. World Literature paperbacks: Odyssey, Miracle Worker, Antigone, Oedipus, Count of Monte Cristo, Les Miserables, A Tale of Two Cities, and F451 will be read. In addition to Macbeth that all seniors study, Hamlet, Midsummer Night's Dream, Much Ado About Nothing, and Taming of the Shrew will be studied. Public speaking and oral reading of student writing will be encouraged. Perfect final copies of all papers will be kept in a portfolio. Students taking this course will be eligible to sit for the advanced placement examination. Prerequisite: Students must have earned an "A" or "B" in Advanced Junior English.

## ENGLISH ELECTIVE COURSES

CREATIVE WRITING Grades 9-12(.50 cr) In this English elective course students will explore various forms of informal writing, such as poems, children's books, biographies, short stories, and one-act play scripts. Emphasis will be on imagination and style, creativity, and productivity. A willingness to express oneself in writing is all that's needed.

JOURNALISM Grades 9 - 12 (.50 cr.) A writer's workshop approach helps students become better writers. Students can choose their own topics and genres, develop their own writing processes, learn how to give and receive constructive criticism, collaborate with classmates, and receive individualized writing instruction. Students use large amounts of structured independent class time to learn how to combine their writing with Microsoft Publisher, Photoshop, Microsoft Word, digital photography, and internet to publish *The Grizzly* which offers a forum for student opinion, expression, and activity as well as pursue other publishing opportunities.

S.A.T. VERBAL PREPARATION Grades 11(.50 cr.) This course is an on-line course provided by the College Board to assist students in preparing for achievement exams such as the S.A.T. and A.C.T. which are used for college entrance. Students will have exposure to several practice exams emphasizing SAT writing, reading, and college level vocabulary. The course is a pass/fail class and requires limited homework.

READING ENRICHMENT (.50 cr) Grades 9-12 This nine weeks course seeks to improve the students' reading, writing, and test-taking skills. This course will be required for any student who performs below the proficient level on the PSSA or other school district approved standardized tests. This course will also be available as an elective to any student interested in improving their reading skills. Students will practice analytical reading and become familiar with the format, jargon, and scoring of the PSSA test and other tests.

HIGH SCHOOL READING Grades 9-12 This course seeks to improve the students' reading, writing, and test-taking skills. Students will practice analytical reading and become familiar with the format, jargon, and scoring of the PSSA and other tests.

INTRODUCTION TO THE THEATRE Grades 9-12 (.50 cr) This class is a prerequisite to taking the play production class. Students will learn how to act and how to work backstage to support a production. Theories and practices of costume and set designers, makeup artists, and lighting technicians will be studied. Students will also learn theatre history, the names of famous plays and playwrights, and theatre jargon. They will participate in fun improvisational acting exercises, physical, and vocal warm ups. They will practice acting techniques by memorizing and rehearsing short monologues and acting scenes in small groups which will be performed for the class.

PLAY PRODUCTION Grades 10-12 (.50 cr) Students will produce a play. A prerequisite for this class is the Introduction to Theatre course. The first few weeks are spent reading available scripts for possible production. After a class vote in which the majority rules, then cast and stage crew is set by the faculty director: Mrs. R. Hoffman. Each student must be willing to act on stage or work backstage according to the teacher's discretion. The largest portion of grade is based on attitude, cooperation, and dedication. After several weeks of rehearsal, the show is performed in a school assembly.

MEDIA I/TELEVISION PRODUCTION Grades 9-12 (.50 cr) This course introduces the many facets of broadcasting and production. Students will produce programs that will air to the student population. Students will learn how to write complicated scripts and storyboard, as well as develop intricate skills in both videotaping and editing. Students are introduced to non-linear editing and graphics programs used in actual broadcasting stations. Students also concentrate on the storage, management, and retrieval of media assets in a production environment.

MEDIA II/ FILM STUDIES Grades 10-12(.50 cr)  
This class studies the nature of film technique and film language, analysis of specific films, major historical, theoretical, and critical developments in film and film study from the beginnings of cinema to the present. Through the screening of a variety of significant films such as */Citizen Kane /and /Star Wars/*, students will learn the history of motion pictures. The class will focus on the different historical perspectives and cultural influences in film from the early days of film to present day films including */The Matrix///*. Students will study the early history of motion pictures and learn how films were first developed, how they evolved, and where they are going. A number of full-length films will be analyzed for plot, technique, symbolism, and character development. Utilizing classroom discussions, written comparisons, character sketches, and reviews, the students will learn to sharpen their powers of criticism and appreciate the artistic value of film. Students will be required to read and analyze scripts as well as write complicated criticisms of films. The class will also produce a short film in a studied genre. Prerequisite MEDIA I – Successful students should have background in scripting, storyboarding and editing.

### **FAMILY & CONSUMER SCIENCES**

CULINARY ESSENTIALS I, Grades 10-12(.50 cr) This class is designed to teach students the fundamentals of cooking. Bookwork and labs are combined to give the student first hand experience in the art of cooking. Level I Chapters include: Knives & Smallwares, Safety & Sanitation, Moist & Dry Cooking Techniques, Seasonings & Flavorings, Breakfast Cookery, Sauces, Soups, and Meat Cookery. Cost \$30

CULINARY ESSENTIALS II, Grades 11-12(.50 cr) Chapters include: Nutrition, Poultry, Pasta & Grains, Fruits, Vegetables, & Legumes, Baking Techniques, Yeast Breads, Quick Breads, and Desserts. Prerequisite : Culinary Essentials I with at least grade of “C”. Cost \$35

MODERN LIVING Grades 9-10 (.50 cr) Students learn about Human Sexuality. Relationships, STD’s pregnancy, birth, and baby basics are taught in detail. Students will have use of the empathy belly and Real Care babies. This course is required for students in grade 9.

MODERN LIVING II/PEER EDUCATORS Grades 10-12 (.50 cr) This class will focus on the information learned during the Modern Living I class. Students will complete a Peer Educator program and use their knowledge and skills to educate middle & elementary school students. They must be willing to research topics, write lessons, and present those lessons to their peers. Students need to have completed Modern Living I with at least a “C”, and must have the teachers recommendation

### **FOREIGN LANGUAGE**

FRENCH I Grades 9-12 A class designed to acquaint the student with the elementary essentials of speaking, listening, reading and writing the target language. Vocabulary is limited to approximately 500 words. Grammar encompasses basic grammatical skills, which will enable the student to use the language accurately as well as meaningfully. Homework and weekly testing are a necessity. Song and dance are also incorporated into the program. Technological support is utilized through audiotapes, video tapes, and the internet. Prerequisites: “C” average in English 7 & 8

FRENCH II Grades 10-12 The basic skills of speaking, listening, reading and writing will be further developed in this level of French. Cultural units will be included to familiarize the students with a foreign culture and to improve cross-cultural communication. Students will also begin to develop their writing skills through various writing assignments. Technological support is also used at this level. Prerequisite: Average of “C” in French I

\*FRENCH III Grades 11-12 Students will develop more vocabulary and perfect verb tenses and sentence structure. There is a lot of cultural reading throughout the course and conversation in French on a daily basis. Various writing assignments will be assigned during the course to enable students to continue to develop their writing skills in the target language. Prerequisite: “A” or “B” in French II and/or teacher recommendation.

\*FRENCH IV Grades 11-12 Students will continue to develop advanced vocabulary, perfect additional verb tenses and develop more advanced sentence structure. Various excerpts of French authors will be presented. Daily conversation is almost completely in French and there is a great deal of cultural reading involved in the course. Students will also be required to present a researched topic in French using Power-Point. Prerequisite: “A” or “B” in French III and/or teacher recommendation.

SPANISH I Grades 9-12 A course designed to acquaint the student with the basic essentials of speaking, listening, reading and writing the target language. Vocabulary is limited to about 500 words. Grammar encompasses basic grammatical skills, which will enable the student to use the language accurately as well as meaningfully. Homework and weekly testing are a necessity. Song and dance are incorporated into the program. Technological support is utilized through CD’s, videotapes, and the Internet. Prerequisite: Average of “C” in English 7 and 8.

SPANISH II Grades 10-12 The basic skills of speaking, listening, reading, and writing will be further developed in this level of Spanish. Cultural units will be included to familiarize the students with foreign cultures and to improve cross-cultural communication. Students will continue to develop their writing skills through various writing assignments. Technological support is also used at this level. Prerequisite: Average of "C" in Spanish I.

\*SPANISH III Grades 11-12 Students will acquire more vocabulary, sentence structure, and learn more tenses. There is a lot of cultural reading throughout the course and conversation in Spanish on a daily basis. Writing assignments are integrated into the course enabling students to improve their writing skills in the target language. A unit on Hispanic artists is included in the curriculum. Prerequisite: "A" or "B" in Spanish II and/or teacher recommendation

\*SPANISH IV Grades 11-12 Students will continue to develop advanced vocabulary, perfect additional verb tenses and develop more advanced sentence structure. Daily conversation is almost completely in Spanish and there is a great deal of cultural reading involved in the course. Translation of *Don Quixote by Cervantes* is required. Students will also create a project on a Hispanic artist using Power-Point. Prerequisite: "A" or "B" in Spanish III and/or teacher recommendation.

INDEPENDENT STUDY \*SPANISH V Grades 12 . Prerequisite: "A" or "B" in Spanish IV and/or teacher recommendation & availability.

INDEPENDENT STUDY \*FRENCH V Grades 12 . Prerequisite: "A" or "B" in French IV and/or teacher recommendation & availability.

FOREIGN CULTURE & WORLD TRAVEL Grades 9-12 (.5cr) Students will take a virtual field trip and study some of the people, customs, cultures, and societies from around the world, including the countries of China, India, Russia, Germany, Japan, and many others. Students will learn basic expressions in various languages, develop a basic understanding of the social norms, customs, and cultures for each country, and compare/contrast the similarities and differences between the cultures studied and their own. The class may involve sampling cuisine from the countries studied and visits from guest speakers. Students will be assessed in a variety of ways with a strong emphasis placed on class participation, presentations, projects, and technology (i.e. Internet, Power Point, Photo Story, Microsoft Office, Goggle Docs, video).

AMERICAN SIGN LANGUAGE Part A(.5cr) and Part B(.5cr) Grades 10- 12 This two part course is an introduction to American Sign Language and covers deaf history and culture. Students are required to produce the following for each part: a short video and submit a deaf-day write-up, 10 lessons, 9 assignment submissions (7 Speed-back assignments, 2 instructor-graded assignments); proctored final exam. This course is taught as an independent study course using online technology. Students must be self motivated and work well independently.

CAPE ONLINE WORLD LANGUAGE INSTITUTE (COWL) Grades 11 & 12 Students will be using both online environments and classroom-based videoconferencing to learn either *Japanese, Chinese, Russian, or Arabic*. This course is taught as an independent study course using online technology. Students must be self motivated and work well independently. Prerequisite: Prior completion of 2 years of foreign language i.e. Spanish I & II or French I & II with "C" averages.

## **INDUSTRIAL ARTS**

HOME MAINTENANCE & REPAIR Grades 9-12 This course will offer instruction in Electricity-wiring of single pole, 3-way switches, duplex receptacles, lights, electricity generation , transformers, and more advanced study of generators, motors, & wiring. Plumbing - drain, waste, vent installation & function, S-traps, stacks, supply water, wells, and more advanced study of soldering Cu pipes, construction of drains etc. Roofing - tear-off, re-roofing, repairs, roofing materials, architecture, calculation of materials and more advanced study of shingle application, & design of trusses and rafters. Drywall - installation techniques, calculation of materials, finishing techniques and repairs. Woodshop - safe use of tools in construction of a wood project. Cost of this class which will be based on the amount of material in the projects.

MANUFACTURING Grades 9-12 This class will include first-year through fourth-year students who will study the structure of manufacturing with an emphasis on production. They will research machine operation and safety, wood characteristics, types of joints, and assembly techniques used in woodworking. Then, as a class, they will organize and execute the construction of a mass-produced project. If time allows, they will then be required to custom-produce a project of their choosing. The project will be approved by the instructor based on their ability and skill level. There will be a cost to this class which will be based on the amount of material in the projects constructed.

MECHANICAL DRAWING I/CADD I Grades 9-12 In this course the student will do a series of sketches and drawings covering the following topics: Care and Use of Equipment , Isometric Drawings, Sheet Planning Layout, Section Views, Lettering, Auxiliary Views, Principles of Geometric Construction, Machine Drawing, Multiview Orthographic Projection

COMPUTER AIDED DRAFTING & DESIGN II (CADD) Grades 10-12 The student will add the following areas to their drafting background. Pattern Development, Pictorial Drawing, Machine Drawing. The student will be introduced to the world of Architecture and will, in the course work, cover the following areas:CADD using Cadkey, Framing, Elevations, Legal Concerns,Plot Plans, Electrical Plans, Floor Plans, Windows and Doors, Foundation. Prereq: C or higher in Mech Dr I.

POWER TECHNOLOGY I & II Grades 9-12 (.50 cr) Students are required to complete at least six modules in the following area: Automated Manufacturing, Pneumatics, Basic Electricity, Robotics. Bridge Building, Space & Rocketry, Lasers & Fiber Optics, Structures & Mechanisms Plastics Technology, Transportation, Electricity, Alternative Energy

ELECTRICAL POWER – GENERATION AND DISTRIBUTION Grades 9-12 (.50 cr) This course explores careers available in power production. Topics include: various methods of generating electrical power in large quantities, the power grid, distribution of electricity over large areas, types of careers in power generation, and a possible field trip.

## **MATHEMATICS**

ALGEBRA I A & B(Taught in A & B units per semester) Grade 9 (1-math cr + 1 elective cr) This year long course is for the student who has completed 8<sup>th</sup> grade Pre-Algebra with a final grade between 60 and 75% or had a standard state test score below Proficient. This course covers the primary concepts of Algebra at a slower pace than regular Algebra I while reinforcing basic math skills. The course includes topics such as variables, solving equations, positive and negative numbers, order of operations, polynomials, factoring, Pythagorean theorem, radicals and introduction to graphing calculators. Applications are emphasized throughout the course.

ALGEBRA I Grades 9-12 Algebra I is the necessary foundation for the development of logical thinking. The course includes topics such as variables, solving equations, positive and negative numbers, order of operations, polynomials, factoring, Pythagorean theorem, radicals and introduction to graphing calculators. Applications are emphasized throughout the course.

*\*Students will be required to complete each quarter of this course with a grade of 75% or higher. Students who earn grades below 75% will be placed in the Algebra I A & B course for the remainder of the course.*

GEOMETRY Grades 9-12 This course is set up to develop the student's ability to think creatively and critically in both mathematical and non-mathematical situations. This is accomplished by developing an understanding of geometric relationships in both a coordinate plane and a non-coordinate plane. This is further brought about by developing an understanding of the meaning and nature of proof. The method of deductive proof will be introduced through a variety of forms, such as paragraph proofs, flow-chart proofs and two-column proofs. Geometric concepts will be integrated with arithmetic and algebraic skills to further enhance this aspect of geometry. Prerequisite: Algebra I with a "C" or better.

ALGEBRA II Grades 10-12 This course, primarily designed for the college-bound student, covers graphing, solving systems of equations, factoring, functions and relations, as well as adding, subtracting, multiplying and dividing rationals and irrationals. Prerequisites: Algebra I with a "C" or better.

\*ALGEBRA II/III Grades 10 This weighted course is designed for the accelerated college-bound student. The course includes graphing, solving systems of equations, factoring and functions and relations as well as adding, subtracting, multiplying and dividing rationals and irrationals. This course also extends the sequence of Algebra II through quadratic relationships, conics and quadratic systems. The opportunity to explore polynomial equations through exponential and logarithmic functions and work with other areas of algebra such as progressions, sequences, series and expansions is included. Prerequisite: Algebra I and Geometry with an "A" and teacher recommendation.

INTEGRATED MATH Grades 11(1cr or .5cr) This math course is designed to focus on the fundamentals of mathematical applications. Students must have completed Algebra I and Geometry before they take this course during their junior year. Areas covered include: word problems, solving equations, using algebraic techniques, basic geometric and statistics concepts. This course will also prepare students for standardized tests such as the PSAT, SAT and the PSSA, and assigned to this course based upon performance on math assessments.

\*ALGEBRA III Grades 11-12 This weighted course is designed to extend the sequence of Algebra II through quadratic relationships, conics and quadratic systems. Explore polynomial equations through exponential and logarithmic functions. Work with other areas of algebra such as progressions, sequences, series and expansions. A brief introduction to statistics and probability is also included. Prerequisite: Algebra II and Geometry with a "C" or better.

\*PRE-CALCULUS/TRIGONOMETRY Grades 11-12 This weighted course is designed for the accelerated college-bound student. The subject is developed primarily as a means of finding the lengths of sides and the measure of angles of triangles. Analytic trigonometry is also discussed along with its use in the complex number system. In addition, polar coordinates, parametric equations, limits and continuity as well as rates of change and tangent lines will also be covered. Prerequisite: Algebra II/III with an "A" or "B". If a "C" was received in any grading period, the student must have a recommendation from both instructors.

\*TRIGONOMETRY Grades 11-12(.50 cr) Success in college-level mathematics is enhanced by a good understanding of trigonometry. This weighted course is designed for college-bound students who may desire to study calculus later. The subject is developed primarily as a means of finding the lengths of sides and the measure of angles of triangles. Analytic trigonometry is also discussed along with its use in the complex number system. If time permits, polar coordinates and parametric equations will also be covered. Prerequisite: Algebra II, Geometry and Algebra III with a "C" or better. If a "D" was received in any grading period, the student must have a recommendation from both instructors.

\*CALCULUS Grade 12 This is a weighted college-prep course that will provide a capable background in math for the student who may pursue a mathematical, scientific or engineering course of study as an undergraduate. Prerequisite: Pre-Calculus or Trigonometry with an "A" or "B". If a "C" was received in any grading period, the student must have a recommendation from both instructors.

CONSUMER MATHEMATICS Grades 12 This course is designed as a practical business mathematics. It emphasizes basic math applications. Topics include percentages, fractions, measurement, geometry, statistics, probability, automobile and housing topics and banking/money management. The material covered throughout the course will aid an individual in becoming an intelligent consumer.

### **MATHEMATICS ELECTIVE COURSES**

S.A.T. MATHEMATICS PREPARATION Grades 11(.50 cr.) This course is designed to assist students in preparing for achievement exams such as the S.A.T. and A.C.T. which are used for college entrance. Students will have exposure to several practice exams emphasizing SAT mathematics. The course is a pass/fail class and requires limited homework.

MATH ROCKS Grades 10-12(.50 cr.) The course "Math Rocks" is designed as a **project-based class** and will answer the question: "When are we ever going to use this?" The math categories will consist of: Numbers and Operations, Measurement, Geometry, Algebraic Concepts, and Probability and Statistics. The goal is to teach mathematics by applying the content with a more meaningful, non-traditional approach.

### **MUSIC**

MARCHING BAND Grades 9-12 (1<sup>st</sup> Quarter) (.50 cr) The UC Marching Bears This class consists of musicians and color guard. The musicians are percussion, brass and woodwinds. The color guard uses an assortment of equipment and props to perform in visual representation, the mood and feeling of the music.

Tryouts for color guard are held in the late winter/spring of the previous year. Musicians must already be accomplished on their instrument before joining. You may take lessons with Mr. Black the in the spring of the prior year if you would like to join. Marching Band is co-curricular in that your grade is based on in-school rehearsals and after school performances. We perform between 15-25 times in the fall. We meet every day for one block during the first quarter of the school year. There are after school and Saturday rehearsals as well. Marching Band camp in August is required and there are other summer practices and performances. We are a highly competitive group committed to excellence on and off the field. Some sections of the band may be auditioned ahead of time because of numbers and extremely high ability levels.

CONCERT BAND Grades 9-12 (2nd Quarter) (.50 cr) This band meets for one block daily during 9- weeks of the year. There is a minimum of one evening concert and some performances during the day. We usually have auditions to determine chair placement. We play a wide variety of styles to suit both the performer and the audience. There will be a required, graded, evening performance.

GUITAR CLASS Grades 9-12 (3rd Quarter) (.50 cr) This class meets for one block daily during nine weeks of the year. It is offered every other year in even to odd school years( 2010-2011). This course is meant for the beginning guitarist. Some advanced techniques will be presented depending on the ability of the class. You must provide your own acoustic guitar (solid body electric guitars are not accepted).

PERCUSSION ENSEMBLE Grades 9-12 (.50 cr) (3rd Quarter) This class meets for one block daily during nine weeks of the year. It is offered every other year in odd to even school years (2011-12). All students in the class will learn to play drum set, snare drum, marching drums, keyboards and the auxiliary percussion instruments. There will be a required, graded, evening performance.

JAZZ BAND Grades 9-12(.50 cr) (4th Quarter) (The UC Jazz Ensemble) This class meets for one block daily for 9 weeks of the year. The group is comprised of saxes, trumpets, trombones, drums, piano and guitar. We study jazz performance and jazz history as part of class. Everyone will learn to improvise. There is a required evening performance and several performances during the school day.

GLEE CHORUS Grades 9-10 (.50 cr) (1<sup>st</sup> Quarter) Glee Chorus is primarily for 9<sup>th</sup> and 10<sup>th</sup> grade choral singers who wish to improve their vocal and choral abilities with attention to concrete understanding of choral notation while focusing on mid-level choral repertoire. A variety of genres will be explored with opportunity for student input on concert selections. Students in this group will be given an opportunity to audition for the higher level Honors Chorale. It is recommended that all eighth grade singers enroll in this course as they transition into the high school choral program.

UC HONORS CHORALE Grades 9-12 (.50 cr) (2<sup>nd</sup> Quarter) Honors Chorale is a course for the eleventh & twelfth grade singers, and a select few 9<sup>th</sup> & 10<sup>th</sup> grade singers who are serious musicians and desire a higher level vocal and choral experience. Students in this choral ensemble are selected by the choral director based on an assessment of a student's *ability and/or audition*. This course includes a somewhat more challenging repertoire. Please note that *exemplary commitment to rehearsals is expected*.

MUSICAL PRODUCTION Grades 9-12 (.50cr) Musical Production is for high school students with a desire to be part of a high school Broadway musical production. Students will collaborate on all the aspects related to producing a musical depending on their individual interest and abilities, including acting, singing, dancing, practical and artistic aspects of set development, design and construction, technical aspects of sound and lights, costuming, stage make-up and stage crew; and will be responsible for the timely completion of specific, assigned tasks. The course culminates with final weekend performances for which several evening rehearsals during the last three weeks of the quarter will be required. The actual performance weekend may take place beyond the end of the quarter.

PIANO KEYBOARD CLASS Grades 9-12(.50 cr) (4th<sup>t</sup> Quarter) Piano Keyboard Class is for high school students with a desire to learn the rudiments note reading, and piano keyboard

skills. There is no pre-requisite for this course. The number of students accommodated will depend on the number of pianos/keyboards available (students are encouraged to bring their own electronic keyboard instruments to use if they so choose.). The course will cover note reading of treble and bass staves, fingering, meter, sonority, keys, scales, chord progressions, and musical form. Assessment will include both playing tests and written tests.

### **PHYSICAL EDUCATION & HEALTH**

HEALTH 10 (.50 cr) Grade 10 As sophomores approach adulthood they will begin to take responsibility for their own health. Students will be asked to examine their current lifestyles and see how their future health and the health of their future children will be impacted by today's choices. Topics for discussion will include life-style diseases, physical fitness, nutrition, mental health, suicide prevention, character education, alcohol and substance abuse, and stress management.

PHYSICAL EDUCATION Grades 9-12(.50 cr) Girls and boys physical education is mandated by the state of Pennsylvania. Emphasis is placed on building the student's self-discipline, personal hygiene, ability to work with other skill levels in various areas of sport and fitness and trying to better each person in a vast number of skill areas, both physically and mentally. The physical education program consists of a combination of team sports, life-time sports activities and fitness training. Basic skills are taught along with simplified rules for several of the major team sports such as football, soccer, speedball, volleyball, basketball, floor hockey, indoor recreation activities, and swimming. Exercise techniques for maintenance of proper body weight and strength are also included. Presidential Fitness testing is administered each nine-week grading period. Levels of modification vary with skill levels and abilities of the class, skill development and knowledge of particular areas. Also included are fun activities and outdoor activities(softball, volleyball, golf, etc.) when weather permits. \*Each class will begin with a pre-class routine: stretching together, walk/run/walk and/or weight room activity.

RECREATIONAL ACTIVITIES Grades 9-12(.50 cr) In this course, students will play a variety of fun activities/games. Games and Activities include: Capture the Flag, Fort Knox, Survivor, various kickball and wiffleball games, basketball golf, 3-sport-combo(volleyball, knock-out and jump roping), gatorball, team handball, scooter ball, captain basketball, etc. This is a great course for the student who loves to have fun.

TEAM SPORTS Grades 9-12(.50 cr) In this course, students will develop the skills to practice and play a variety of team sports(basketball, volleyball, soccer, floor hockey, softball, flag football, etc.). Teamwork, competition, and fair play will be stressed at all times. This is a great course for any student who loves to play team sports. Each student will develop a deeper understanding of the intricacies of the game.

PHYSICAL FITNESS Grades 9-12(.50 cr) This elective course is for students desiring to take additional courses in physical fitness must have earned an "C" in the previous classes. Measurable physical fitness goals will be established jointly by the student and instructor. Goals will include the physical fitness aspects of flexibility, heart-lung endurance, muscle strength, muscle endurance and weight control as well as specific sport-related fitness skills such as vertical jumping ability.

DRIVERS EDUCATION Grades 10-12(.50 cr) This course reviews laws, regulations and safety information promoted by the Pennsylvania Department of Transportation. Students will

receive instruction with respect to drivers training that will prepare them to take the drivers examination. Behind-the-wheel training will be offered separately and at a cost.

## **SCIENCE**

**PHYSICAL SCIENCE** Grade 9 This is an introductory course in physical science. Topics in the course include measurements, the metric system, properties of matter, motion and forces, work, machines & energy, heat, the atom, electricity, magnetism, sound & light. Laboratory work is emphasized in this class.

**BIOLOGY** Grades 9-10 Biology is a required high school course that deals with the science of life. The course covers a variety of biological topics including: biochemistry, cell structure and function, cellular physiology, genetics, DNA technology, classification, and all of the six kingdoms. The course is based on lecture, labs, activities, current events, projects, tests, and homework. The course follows the state standards in Biological Sciences and is considered a lab science for meeting college admissions requirements.

**APPLIED BIOLOGY** Grade 10 Applied Biology offers the same content as the general course but gives the students the opportunity to work at an alternative pace. Students are required to complete the same course work as listed in the general course but are frequently given alternative assignments. This course is designed to meet the needs of each student while following the state standards in Biological Sciences.

**APPLIED CHEMISTRY** Grades 11-12 Applied Chemistry is a lab-based course designed to introduce the student to basic lab practices of equipment use and measuring. Areas of study to be covered include: \*Characteristic properties of matter \*Periodic table and its trends \*Chemistry in the home \*Data collection and analysis \*Safety in class and beyond

**CHEMISTRY** Grades 10-12 Chemistry is an elective science course that emphasizes the chemical concepts of composition, structure and properties of substances and the changes they undergo. These concepts are reinforced through carefully aligned laboratory experiments and problem solving exercises. Concepts covered are designed to give background to students pursuing careers in science related field. Topics covered include laboratory safety, composition and characteristics of matter, data collection and analysis, atomic structure, periodic table, chemical bonding, chemical formulas, chemical reactions and equations, stoichiometry and gases. This course is considered a lab science for meeting college admissions requirements. Prerequisites: Algebra I, Biology and general science courses

**GENERAL SCIENCE** Grades 11-12 This course focuses on the following topics:

1. Wise use of renewable and non-renewable resources.
2. Pollution, including types, control measures and cleanup.
3. Ecosystems & their interactions, including biomes & communities of organisms.
4. Population, food and hunger.
5. Watershed and wetlands.
6. Agriculture and society.
7. Integrated Pest Management.
8. Threatened, endangered and extinct species.
9. Humans and the environments.
10. Environmental laws and regulations.
11. Health of humans, plants and animals related to the environment.

**HUMAN BIOLOGY** Grades -12 This course designed for the college bound 12<sup>th</sup> grade student who may be considering majoring in the medical field or a related science field, but has not

completed the physics course. This is a comprehensive course designed to provide students with an understanding of and appreciation for the human body. Our journey through the body covers eight units including key terminology and all the major body systems. The student will be required to complete formal lab reports. A minimum of one lab practicum will accompany the laboratory format. The course will cover the human body including the anatomical structures, physiological mechanisms, and current applications to the medical field. Grade of "C or Better" in Prerequisites: Chemistry, Biology

\*PHYSICS Grades 11-12 Physics is a one-credit course for high school students, and will be weighted for students in the class of 2012 or later. This course emphasizes the use of the scientific method in problem solving, recommended for all college-bound students. Experiments are planned to encourage students to explore, innovate, and enjoy the laboratory experience. Topics covered include measurements, motion, vectors, projectile motion, dynamics, work, energy, momentum, circular motion, heat & thermodynamics. Prerequisite: Algebra I & II, and Geometry

\*ANATOMY & PHYSIOLOGY Grades 12 This weighted course is taught as an anatomy and physiology course designed for the 12<sup>th</sup> grade student who may be considering majoring in the medical field or a related science field. The student will be required to complete eight formal lab reports and a rat dissection. A minimum of one lab practicum will accompany the laboratory format. The course will cover the human body including the anatomical structures, physiological mechanisms, and current applications to the medical field. This course is designed for the college bound student and will allow a maximum of twenty students to participate. The option of completing the College Board AP Exam for this course may be offered in the spring of each school year. Grade of "A or B" in Prerequisites: Chemistry, Biology, Physics

\*ADVANCED CHEMISTRY Grades 11-12 This is a Chemistry II weighted course which provides more in-depth study of general chemistry and study of new topics not previously covered. The course reinforces all concepts with carefully aligned laboratory experimentation. New topics include solution chemistry, acid-base theory, advanced chemical reactions and equations, oxidation-reduction, VSEPR chemical bonding, and organic chemistry. Prerequisite: One credit of chemistry with an 80% or better and Algebra II

\*ADVANCED PHYSICS Grades 12 This class is actually a Physics II weighted course exploring areas not covered in physics. Topics covered include electricity, magnetism, nuclear, fluid flow, sound, light, and fundamental particles. Conceptual learning is stressed more than the rigorous problem solving in physics. College-bound students looking to major in any of the sciences, including nursing, will benefit from this course. Prerequisites; Chemistry, Biology, Physics

### **SCIENCE ELECTIVE COURSES**

FORENSIC BIOLOGY (.5cr) Grades 10-12 This class will provide in-depth explorations of forensic science and many of its sub-fields including forensic medicine, odontology, pathology, chemistry, and toxicology. Students will discover the usefulness of DNA evidence and electrophoresis. They will also be exposed to common forensic laboratory procedures such as blood type determination, blood type matching, drug identification, and urinalysis.

RADIATION BIOLOGY (.5cr) Grades 10-12 This class will provide valuable knowledge about the role of imaging diagnostics in the health care field. Students will explore areas such as x-ray, fluoroscopy, nuclear medicine, tomography, CT, MRI, mammography, ultrasound, PET and

more. Activities will also include the opportunity to examine an actual ultrasound and learn the necessary job skills while conducting a simulated x-ray. Areas covered will include an overview of anatomy and physiology and the systems in the human body.

INTRO TO ANATOMY OF SPORTS (.5cr) Grades 10-12 This class will allow students to explore various career opportunities in sports medicine, including athletic training, fitness, strength and conditioning, and physical therapy, anatomy & physiology. Students will use hands-on activities that introduce them to proper stretching techniques, athletic taping, on-the-spot treatment of injuries, rehabilitation, and nutrition.

ANIMAL PHYSIOLOGY (.5cr) Grades 10-12 This class will explore a wide range of skills and procedures from basic animal care and first aid to surgical procedures, suturing, and CPR. Students will practice and explore many common skills used in the veterinary environment. Students will use hands-on activities such as restraining for venipuncture, and muzzling.

NANOTECHNOLOGY (.5) Grades 10-12 is an introductory course in this new and exciting field, working in the nanoscale, a billionth of a meter in length. Hands-on activities and guided-inquiry with open-ended explanation investigations will be implemented to help learn the basics for the cutting edged new applications coming out seemingly weekly.

## **SOCIAL STUDIES**

AMERICAN HISTORY Grade 9 This course is a chronological survey of the major political, social, economic, and international developments in the United States since 1865. A great deal of emphasis is placed on relating events of the past to contemporary events. A variety instructional materials including textbooks, worksheets, maps, videos and computer assignments are incorporated into classroom activities.

WORLD HISTORY Grade 10 This course covers content from prehistory to Modern times with a basic focus on western civilizations and cultures. The course views various civilizations and cultures from the geographical, political, economic, military and socio-cultural perspectives. It should help the student gain an understanding and appreciation of the peoples, cultures and history of the world through cause-effect relationships, cultural contributions and assimilation.

UNITED STATES GOVERNMENT Grade 11 The past and present (in theory and reality) is the course of study through this class. Topics will range from the understanding of our national constitution and the resulting form of federal government (local, state and national) to a character analysis of various American leaders. A continuing discussion of current national and international events will also be part of this course as it pertains to American Government. This course shall be primarily concerned with developing an awareness of civic-mindedness and participation in our democratic process.

INTRODUCTION TO SOCIOLOGY Grades 10-12(.50 cr) This is a study of human relations--the meaning behind group behaviours and society's impact on the individual. This introductory course exposes students to the terminology, concepts, and theory surrounding the history of society. This course covers society, culture, social institutions, contemporary problems, socialization, group dynamics and continuity.

INTRODUCTION TO PSYCHOLOGY Grades 10-12(.50 cr) This is an introductory course into the field of psychology. The course design follows the National Standards for High School Psychology providing the students with exposure to key terminology, concepts and theory. The

topics covered include principles of psychology, the fields of specialty, psychological perspectives, learning (classical and operant conditioning), sensation and perception, memory and thought, motivation and emotion, personality theory, psychological testing and abnormal behaviour.

INTRO TO CHILD PSYCHOLOGY Grades 10-12 (.50) This class is designed for the student who is interested in learning about the stages of human development. Key concepts and principles of child development will be explored. Students will learn terminology and basic concepts related child rearing and education.

ECONOMICS Grade 12 (.50 cr) Economic principles are learned and applied not only to help in individual decision making, but to better understand the decisions made by government and business. Economic concepts such as supply and demand are emphasized. In addition, the various economic systems are studied to better understand the United States and World relations.

INTRODUCTION TO CRIMINAL JUSTICE Grade 10-12(.50 cr) This course provides the philosophical and historical background of the agencies that compose the criminal justice system. It focuses on the development of justice and law, crime and punishment, the administration of laws, the agencies' functions, career orientation and public relations. It describes the formal components of the criminal justice system, their history of evolution, and their operations. The focus throughout is on people: the criminal offenders, the professional members, and the role of the public.

INTRODUCTION TO ARCHAEOLOGY Grade 10-12(.50cr) This course will help students with an interest in the field of Archaeology and provide a venue for career exploration in the Archaeological fields. It will provide the students with an understanding of how material evidence left behind can help us piece together past human behaviours. The topics covered include: Archaeological history, Nature of Evidence, Careers, Field Work, Reconstructing and Research principles. . Prerequisites; World History

**VOCATIONAL TECHNICAL COURSE OFFERINGS  
BY TECHNICAL TRAINING CLUSTERS  
Grades 10 -12 --- 4 credits/year**

All Vo-Tech areas are taught with classroom knowledge applied directly to hands-on experiences. The programs are two and three-year courses designed for high school students in grades 10, 11 and 12. All courses are offered at Erie County Technical School (ECTS). Students take their core academic courses at Union City, and attend classes at ECTS for the other half of the day either in the AM or PM. **Additional information about the Erie Technical School can be found on their website at: [www.ects.org](http://www.ects.org)**

**COMMUNICATIONS CLUSTER**

**ART & DESIGN FOR BUSINESS** In the first year of the Art & Design program, students receive training in core art skills, including color theory, perspective and illustrative drawing, lettering, photography and basic graphic design. Students also focus on work skills such as preparing a résumé, writing business correspondence and acquiring basic computer skills.

In the second and third years, students receive complex training in problem-solving skills by applying the design process to projects. Using a combination of computerization, photographic and conventional illustrative methods, students prepare portfolios of approximately 30 pieces of artwork.

Prospective students should possess the following characteristics: 1) a demonstrated talent in drawing; 2) solid verbal and written communication skills; 3) a good sense of color, proportion and design; 4) applied math skills; 5) developed problem-solving skills; and 6) fine motor skills.

**COMPUTER INFORMATION SYSTEMS** 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.

This course aims to present current and future practices in the ever-changing world of data processing. All instructional materials provide students with entry-level skills for positions in data processing through hands-on experience. Studies include the basics of computer science in such areas as design and internal functions, operations, computer operation and programming, data processing and systems design.

The Computer Information Systems program allows students to explore a career path that can lead to higher education in computer programming and many other related fields. Students will gain marketable skills to use computers in any field.

Prospective students should be able to think logically, have good speaking, reading and writing skills and pay attention to detail.

**DRAFTING AND DESIGN** Drafting careers are changing rapidly as computer technology replaces traditional procedures and functions. The course instructs students in industry standards while using one of the most up-to-date drafting laboratories in the area. The Drafting & Design program 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.

The Drafting & Design curriculum includes all facets of drawing, including preparation of reports, charts and data sheets. The Drafting & Design program is designed for those students interested in drafting, mechanical design, engineering and architectural drawing.

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

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

Desktop publishing and computer graphics have become an essential part of the printing industry. To meet the demands of the industry, students acquire introductory skills in electronic imaging techniques using software applications including Adobe PhotoShop and PageMaker.

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.

**NETWORKING TECHNOLOGIES** **Grade 11-12** 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 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, communication and social studies 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.

To pursue post-secondary education in the networking field students may choose to attend institutions such as Erie Institute of Technology, Tri-State Business Institute, Erie Business Center, Pittsburgh Institute of Technology, Edinboro University, Slippery Rock University, and Penn State – Behrend College.

## **CONSTRUCTION CLUSTER**

**CONSTRUCTION TRADES** This program prepares students to enter the building trades industry with marketable skills. This three-year program encompasses all phases of residential construction. The student will gain knowledge in the following areas:

- 1) basic building materials
- 2) blueprint reading
- 3) brick and block laying
- 4) rough framing
- 5) door and window installation
- 6) drywall hanging and finishing
- 7) stair construction
- 8) roofing and siding
- 9) finish trim applications, and
- 10) basic principles of wiring and plumbing.

First-year students learn how to safely operate hand and power tools. They acquire the fundamental skills and theory behind laying brick and block. The students also receive introductory lessons in framing, roofing and siding in the lab, along with related theory. Students study the different building materials used today and math skills related to the

construction industry.

In the second year, students begin with floor framing and proceed to wall, ceiling and roof framing. Students learn by working on individual projects and then incorporating these skills in larger group projects. This provides training to work as a team, similar to that of a construction job site. The second-year student will be able to layout and construct stairs, install doors and windows and correctly apply roofing material. The students also learn how to read blueprints, specifications and detail drawings in order to determine dimensions and materials to use in building projects. Students also learn cost estimating and material selection techniques.

Third-year students receive job-site experience through our cooperative education program or by participating in community-based construction projects. The students in Construction Trades have been very active constructing or renovating various buildings throughout Erie County.

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

**FACILITY MAINTENANCE** This unique and highly versatile course offers several trades in one for the student who is interested in becoming a skilled craftsperson 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.

Employment possibilities range from individual buildings to manufacturing and industrial companies, municipalities, school districts, hotels, hospitals, airports and large commercial operations.

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

### **HUMAN SERVICES CLUSTER**

**COSMETOLOGY** 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.

The curriculum includes specialized classroom training in:

- 1) hair and scalp analysis;
- 2) hair cutting, setting and styling techniques;
- 3) hair coloring and permanent waving;
- 4) skin care, facials and make-up techniques;
- 5) manicures and pedicures;
- 6) wig styling;
- 7) anatomy and physiology;
- 8) sanitation and sterilization; and
- 9) salon management.

Students receive hands-on experience by using mannequin heads and live models during clinic service. The proper use of tools, equipment, safety procedures and state laws and regulations are also important elements of the curriculum.

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

**CULINARY ARTS** 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.

Incorporating theory and practical experience, this program introduces students to a variety of food preparation techniques using the schools fully equipped commercial kitchen and restaurant. Realistic instruction is provided by using the dining room, instructional kitchen, cafeteria, bakery and theory room.

Students learn the preparation of soups, sauces, salads, meats, shellfish, poultry, vegetables, presentation, garnishing and the preparation of desserts. In addition, instructional areas include safety and sanitation, proper use of equipment, purchasing, inventory control, menu planning, diet and nutrition, serving and food service management.

Prospective students should enjoy working with people and be able to work well under pressure; have physical stamina and coordination; good organizational skills; and basic math and reading abilities.

**EARLY CHILDHOOD EDUCATION** The Early Childhood Education program provides the student with the necessary skills for entry-level positions in the child care field, with an emphasis on the preschool environment. The students gain the knowledge of child development principles and will learn positive guidance techniques needed for working with children.

In this program, students participate in both group theory lessons and in individualized, self-directed training toward an occupational goal. Students select and work on competency-based learning guides, which lead to mastery of specific childcare skills in a preschool setting.

Curriculum areas include preschool teaching techniques, child development and growth, nutrition, art, music and children's literature. Students work three days per week in the Tech Tikes preschool as a Preschool Aide.

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

**HEALTH ASSISTANT** 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.

The course exposes the student to health and medical practices such as physical therapy, occupational therapy, dietetics, medical office, nursing, medical secretary, and medical laboratory. Students are introduced to basic medical terminology, anatomy and physiology and beginning skills in medical procedures. An emphasis is placed on work attitudes necessary to be caring men and women sensitive to the complex needs of patients.

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 fifty pounds.

**TOURISM & HOSPITALITY MANAGEMENT** **Grade 11-12** When you work in lodging or food service, you're part of the hospitality profession. You are also part of the largest, fastest-growing industry in the world--travel and tourism, where opportunities abound. The Tourism & Lodging Management program has everything you will need to get started on a hospitality career. Upon graduation, students are ready to begin their hospitality career or continue their education at a college or university.

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.

The objectives of this program correspond to competency lists used in the American Hotel & Motel Association's Educational Institute's post-secondary curriculum and form the basis for articulation agreements with colleges and universities.

A national certificate from the Hospitality Business Alliance (HBA) will be issued to recognize student achievement both in the classroom and in the workplace. Future employers and college admissions officers will recognize the HBA credential as evidence of a graduate's preparation for hospitality success. This credential can put you on the road to management in one of America's largest industries.

### **MANUFACTURING CLUSTER**

**ELECTRICAL ENGINEERING** Students in this program learn the fundamentals of electrical skills and theory. The Electrical Engineering Technologies students acquire the skills for employment in all industrial electric 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.

Using a variety of hand tools and electrical testing equipment, the students learn how to wire a variety of industrial-rated components (relays, motor starters, motors, transformers, timing relays, push buttons, selector switches) and all components used in residential wiring applications. In addition, the students receive instruction in reading residential wiring schematics, motor control schematics, programmable logic controller schematics and hydraulic or pneumatic schematics.

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

**ELECTRONICS** 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.

The Electronics student learns in detail the workings of alternating current, direct current, solid state components and digital electronics. Students also learn how to assemble, install, repair, maintain and modify electronic systems.

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

**METAL FABRICATION** 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 metal inert gas welding.

Students experience training on a variety of machines. Emphasis is placed on bench work, precision measuring instruments, shearing, forming, rolling, assembly, welding, heat treatment, blueprint reading, layout and design, quality control, press brake operation, gas tungsten arc welding (tig) and shielded metal arc welding.

Prospective students need manual dexterity, mechanical aptitude, physical stamina and basic math skills.

**PRECISION MACHINING** 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.

The Tool & Die program gives students the opportunity to manufacture machine parts from various metals on machines such as engine lathes, vertical and horizontal milling machines, surface and cylindrical grinders, drill presses and the band saw. Students learn the properties of steel, aluminum and brass. Then they see how these properties are applicable in the trade.

This basic-to-advanced curriculum offers in-depth training from hand and power tools to state-of-the-art techniques such as computerized numerical control and electrical discharge machining. The understanding of shop mathematics, trigonometry, blueprint reading and precision measuring instruments are critical elements of this program.

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

### **TRANSPORTATION CLUSTER**

**AUTO BODY REPAIR** 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. The latest approaches to modern automobile repair and reconstruction require skilled workmanship. Students in the Auto Body program learn all phases of auto body repair including:

- the proper use of hand and power tools;
- damage analysis;
- rebuilding, reconditioning, sanding and refinishing;
- basic metalworking and dent repair;
- frame straightening;
- spray painting;
- welding;
- glass installation; and
- safety practices.

Students also learn how to estimate, prepare job orders and general shop operation. The program uses demonstration automobiles to provide students with the opportunity to develop confidence by applying the theoretical concepts.

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.

**AUTOMOTIVE TECHNOLOGIES** 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 and their components. Students meeting the requirements will be eligible to take the state inspection test for a Class One License.

This course covers the repair and maintenance of the ignition system, tires, braking, steering and suspension, alignment, electrical and electronic systems, fuel injection, engine repair, engine performance and cooling system. Major and minor tune-up and inspection procedures are also included.

An appropriate share of the program is devoted to studying automotive theory. Students use repair manuals, textbooks and computers for diagnosing problems. A major emphasis of this course is to promote safe, clean and efficient work habits.

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.

## **REGIONAL CHOICE INITIATIVE-RCI**

Regional Choice Initiative-RCI is an opportunity for qualified students in grades 11-12 from Erie County Public High Schools to enrol in college level classes at a reduced tuition rate. Edinboro University, Gannon University, Clarion University, Mercyhurst College, and Penn State Behrend, offer classes on Tuesday/Thursday or Monday/ Wednesday mornings on the second floor of the Skill Center building adjacent to the Erie County Technical School, or at their campuses. Transportation is provided by UCASD to the Skill Center only. These courses are considered Dual Enrollment, allowing students to receive both College and High School Credit.

### **Participation in Regional Choice Initiative (RCI) Dual Enrollment Courses**

Participation in Regional Choice Initiative (RCI), Dual Enrollment Courses is available to students entering grade 11 and 12. Additionally, students in grades 9 or 10 with a Gifted IEP may also participate in this program. Students in grade 11 must have a 3.25 cum GPA and be enrolled in college prep courses including Physics or other advanced science course, Foreign Language, and Geometry or higher math. Students in grade 10 must have a 3.5 cum GPA and be enrolled in college prep courses including Chemistry, Foreign Language and Algebra II or higher math. At Union City, RCI courses can be used as elective credit only and generally do not replaced core curriculum courses.

Eligible students complete an application and return it to the Guidance Office by a specified date. The application is forwarded on to Intermediate Unit V for processing; course scheduling is determined by the date of application and seat availability for the entire program. Additionally, students must be recommended by the high school principal or guidance counsellor. RCI courses during grade 11 and 12 are included in the students GPA, using the weighted grading scale. RCI courses taken during grades 9 or 10 are not weighted and are included in the students GPA using the regular grading scale. Students may lose the opportunity to continue in the RCI program, if they do not maintain a "C" average, in all of their regular and RCI courses.

**Students taking these college credit courses will be required to pay reduced tuition fees plus the cost of books, payment plans are available through the UCASD Business Office. \*RCI Course Offerings vary each semester and are available at the High School Guidance Office to eligible students.**

Union City Area School District is an equal opportunity education institution and will not discriminate on the basis of race, color, national origin, sex and handicap in its activities, programs or employment practices as required by Title VI, Title IX and Section 504.

For information regarding civil rights or grievance procedures contact the Superintendent, (Title IX Coordinator), at 107 Concord St., Union City, PA 16438 (814-438-3804 ext. 5454).

For information regarding services, activities and facilities that are accessible to and usable by handicapped persons, contact Stacey Mulson, Special Education Coordinator at (814-438-7571 extension 3406).

# Helpful Online Resources for Students and Parents

## **FAFSA (Free Application for Federal Student Aid)**

[www.fafsa.ed.gov](http://www.fafsa.ed.gov) – Seniors who plan to attend or are thinking about attending a postsecondary school upon graduation should use this website to apply for financial aid. Use the PIN to electronically sign your document before electronically filing it with the government, the link to obtain a PIN (Personal Identification Number) is available on the website, or at [www.pin.ed.gov](http://www.pin.ed.gov) The FAFSA is a **FREE APPLICATION!** It is free to complete and send electronically. If anyone is charging you to file this application, then you are at the wrong website.

## **College & Scholarship Resources**

<http://aessuccess.org>

<http://estudentloans.com>

<http://www.actstudent.org> –ACT College Entrance Test

<http://www.collegescholarships.com>

<http://www.collegeboard.com> - SAT College Entrance Test

<http://www.collegeispossible.org>

<http://www.ed.gov/about/offices/list/ope/index.html?src=mr>

<http://www.educationplanner.org>

<http://www.fastweb.com> -Scholarship Search

<http://www.finaid.org>

<http://www.pasfaa.org>

<http://www.petersons.com>

<http://www.pheaa.org>

<http://www.princetonreview.com>

<http://www.scholarships.com>

<http://www.students.gov>

<http://www.upromise.com>

<http://www.YouCanDealWithIt.com>

\*\*\*The Union City High School Guidance Office is available as a resource to both students and parents with questions about the college application process and financial aid. The High School Guidance Counselor, Kimberlie Dawson, can be reached by email at [kdawson@ucasd.iu5.org](mailto:kdawson@ucasd.iu5.org) or by phone at 814-438-7673 ext. 5413.