

2011-12

SENECA HIGH SCHOOL

PLANNING GUIDE

FOR STUDENTS AND

PARENTS

Seneca High School
10770 Wattsburg Road
Erie, PA 16509
(814)-824-3400
www.wasd.iu5.org

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Dear Student / Parent:

The following information is supplied to help you with creating an appropriate schedule for the next school year. You need to give consideration to choosing courses so that you satisfy graduation requirements, career academies, and proper academic progressions. In addition, please be sure that you have the proper prerequisites to be in the courses you have chosen.

Extensive effort is made by your high school administrators and counselors to ensure that you have chosen and receive the best possible course schedule. Individual interviews take place with your guidance counselor to ensure the best possible schedule. Teachers and students are assigned to classes based on course selections made by the student in the previous spring. This is to ensure that class sizes are as balanced as possible. Schedule changes that occur after the school year has started only detract from the balance created in the school's master schedule. Your cooperation in maintaining a healthy academic program is expected. Parental involvement is encouraged in the scheduling process and each parent is invited to attend their child's PLP (Personal Learning Plan) meeting involving next year's scheduling.

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

Sincerely,

SENECA HIGH SCHOOL GUIDANCE COUNSELORS

*Remle Moyak - Class of 2015
Joseph Anthony – Class of 2014
Tim Malinowski – Class of 2013
Elizabeth Oslak – Class of 2012*

Guidance Counselors can be reached at (814) 824-4119

CAREER ACADEMIES at Seneca High School

The 6 Career Academies are:

**Arts & Communications
Business
Engineering
Human Services
Science & Health
Entrepreneurship**

Why should a student choose a career academy?

- **To help focus on a career area that matches interests in high school.**
- **To help set goals and discover classes necessary to achieve those goals.**
- **To create career awareness and encourage planning for post-secondary education and opportunities.**
- **To provide knowledge that relates your high school education to the world after graduation.**

The Mission of the Academies

The Career Academies link what students learn in school with the knowledge and skills they need for success in college and careers. It creates a system where the high school is directly connected to jobs and post-secondary training. This direct connection to future goals motivates students to work harder and enroll in more rigorous courses. The guidance counselors will assist each student in developing a Personal Learning Plan (PLP). Students and parents will be invited to attend at least two PLP meetings each year with their guidance counselor.

Note: Students may change Career Academies as their career focus changes.

ARTS & COMMUNICATIONS

This academy is designed to cultivate students' awareness, interpretation, application and production of visual, verbal and written work.

Do you enjoy...

- Playing an instrument?
- Singing?
- Acting?
- Performing in front of a live audience?
- Expressing creative ideas?
- Working with computers?
- Writing?
- Selling?
- Working with film?

If you answered "Yes" to most of these questions, you might consider a future in one of the sample occupations listed in the Arts & Communications Academy based on their level of post-secondary training.

SAMPLE CAREERS

ENTRY	TECHNICAL/SKILLED (1-3 YEARS of education)	PROFESSIONAL (4 OR + YEARS of education)
Model	Actor	Art or Music Teacher
Radio Operator	Book Illustrator	Cinematographer
Stage Hand	Choreographer	Composer
Stunt Performer	Dancer	Film Editor
Film Loader	Disc Jockey	Music Critic
Floral Designer	Musician	Music Director
Florist	Animator	News Broadcaster
Sound Technician	Artist	Curator
Desktop Publisher	Broadcast Technician	Art Director
Circulation	Camera Technician	Industrial Designer
Copy Person	Fashion Designer	Copy Writer
Newsroom Worker	Jeweler	News writer
	Make-up Artist	Telecommunications
	Photographer	Writer
	Recording Engineer	
	Graphic Artist	
	Web Designer	
	Video Manager	

ARTS & COMMUNICATIONS COURSE OF STUDY

This four year plan of study should serve as a guide as you develop your

ACADEMIC CORE REQUIREMENTS

9 th	10 th	11 th	12 th
English 9 (choose 1) <ul style="list-style-type: none"> • Communications • College Prep • Pre-AP 	English 10 (choose 1) <ul style="list-style-type: none"> • Communications • College Prep • Pre-AP 	English 11 (choose 1) <ul style="list-style-type: none"> • Communications • College Prep • AP 	English 12 (choose 1) <ul style="list-style-type: none"> • Communications • College Prep • AP
Math (choose 1 track) <ul style="list-style-type: none"> • Algebra A + B Skills • Algebra A + B • CP Algebra I and II 	Math <ul style="list-style-type: none"> • Geometry Skills I + II • Geometry + Algebra II • CP/Honors Geometry and CP/Honors Trigonometry 	Math <ul style="list-style-type: none"> • Math 11 • No Requirement • No Requirement 	Math <ul style="list-style-type: none"> • No Requirement • No Requirement • No Requirement
Science <ul style="list-style-type: none"> • Environmental Science • CP Environmental Science 	Science <ul style="list-style-type: none"> • Biology • CP Biology • AP Biology • AP Environmental Science 	Science <ul style="list-style-type: none"> • Physical Science • CP Chemistry • AP Chemistry 	Science <ul style="list-style-type: none"> • Chemistry • CP Physics • AP Physics
Social Studies (choose 1) <ul style="list-style-type: none"> • American History • CP American History 	Social Studies (choose 1) <ul style="list-style-type: none"> • World Cultures • CP World Cultures 	Social Studies (choose 1) <ul style="list-style-type: none"> • American Government • CP American Government 	Social Studies (choose 1) <ul style="list-style-type: none"> • Medals vs. Media • CP Economics • Seminar in Current Affairs • PA History
Physical Education 9	Physical Education 10	Physical Education 11	Physical Education 12
Health I	Computer Skills II	Health II	Independent Living
Computer Skills I			

* Students interested in 4 year colleges are **strongly suggested** to take CP, Honors, or AP courses. All Seneca students are suggested to take the most challenging course they can manage.

Student Notes:

ARTS & COMMUNICATIONS
****Strongly Recommended Electives****

9 th	10 th	11 th	12 th
ROTC	ROTC	ROTC	ROTC
Band	Band	Band	Band
Chorus	Chorus	Chorus	Chorus
Instrumental/Voice Lessons	Instrumental/Voice Lessons	Instrumental/Voice Lessons	Instrumental/Voice Lessons
Intro to Art	Intro to Art	Intro to Art	Intro to Art
Intro to Industrial Arts	Intro to Industrial Arts	Intro to Industrial Arts	Intro to Stage Craft
French I	French I / II	French I / II / III / AP	Intro to Industrial Arts
Spanish I	Spanish I / II	Spanish I / II / III	French I / II / III / AP
Drama I	Drama I and II	Drama I and II	Spanish I / II / III
Art History	Graphic Communications Technology I and II	Graphic Communications Technology I and II	Drama I and II
Food I	Wood Working Technology	Wood Working Technology	Graphic Communications Technology I and II
Creative Writing	Publications/Creative Writing	Publications/Creative Writing	Wood Working Technology
Special Topics in Theatre	Advanced Art	Advanced Art	Publications/Creative Writing
	Housing & Interiors	Housing & Interiors	Advanced Art
	Multimedia	Multimedia	Housing and Interiors
	Art History	Art History	Seminar in Current Affairs
	Food I	CO-OP	SAT Verbal/Math
	Special Topics in Theatre	RCI Courses	Multimedia
		Internships	RCI Courses
		SAT Verbal/Math	Internships
		AP Studio Art	Food I
		Special Topics in Theatre	Art History
		Food I	Special Topics in Theatre
		CAD I and II	AP Studio Art
		Adv. Wood	CO-OP
			Adv Wood
			CAD I and II

**** Please note – Before selecting any required course OR elective, be sure that all prerequisites have been met. Check the course description pages of this booklet for more information.**

Student Notes:

BUSINESS

This academy is designed to prepare students for careers in the world of business, finance and information services.

Do you enjoy...

- Using computers and technology?
- Paying attention to details?
- Organizing projects?
- Selling products and services?
- Processing numbers and figures?
- Learning new software?
- Making budgets?
- Making presentations to groups?
- Planning an event?

If you answered “Yes” to most of these questions, you might want to consider a future in one of the sample occupations listed in the Business Academy based on their level of post secondary training.

SAMPLE CAREERS

ENTRY	TECHNICAL/SKILLED (1-3 YEARS)	PROFESSIONAL (4 OR + YEARS)
Customer Service Representative	Computer Salesperson	Marketing Manager
Travel Agent	Bank Collection Officer	Economist
Telemarketer	Tax Preparer	Financial Planner
Book Keeper	Claims Adjuster	Tax Examiner
Cashier	Software Engineer	Operations Analyst
Payroll Clerk	Computer Programmer	Systems Analyst
Title Searcher	Production Support Analyst	Hospital Administrator
Computer Operator	Desktop Publisher	Human Resource Manager
Accounts Payable Office Manager	Medical Secretary	Chief Executive Officer
Administrative Assistant	Real Estate Agent	Manufacturing Sales Representative
Bank Teller	Restaurant Manager	Bank President
Retail Sales Clerk	Sales Representative	
School Secretary		

BUSINESS COURSE OF STUDY

This four year plan of study should serve as a guide as you develop your

ACADEMIC CORE REQUIREMENTS

9 th	10 th	11 th	12 th
English 9 (choose 1) <ul style="list-style-type: none"> • Communications • College Prep • Pre-AP 	English 10 (choose 1) <ul style="list-style-type: none"> • Communications • College Prep • Pre-AP 	English 11 (choose 1) <ul style="list-style-type: none"> • Communications • College Prep • AP 	English 12 (choose 1) <ul style="list-style-type: none"> • Communications • College Prep • AP
Math (choose 1 track) <ul style="list-style-type: none"> • Algebra A + B Skills • Algebra A + B • CP Algebra I and II 	Math <ul style="list-style-type: none"> • Geometry Skills I + II • Geometry + Algebra II • CP/Honors Geometry and CP/ Honors Trigonometry 	Math <ul style="list-style-type: none"> • Math 11 • No Requirement • No Requirement 	Math <ul style="list-style-type: none"> • No Requirement • No Requirement • No Requirement
Science <ul style="list-style-type: none"> • Environmental Science • CP Environmental Science 	Science <ul style="list-style-type: none"> • Biology • CP Biology • AP Biology • AP Environmental Science 	Science <ul style="list-style-type: none"> • Physical Science • CP Chemistry • AP Chemistry 	Science <ul style="list-style-type: none"> • Chemistry • CP Physics • AP Physics
Social Studies (choose 1) <ul style="list-style-type: none"> • American History • CP American History 	Social Studies (choose 1) <ul style="list-style-type: none"> • World Cultures • CP World Cultures 	Social Studies (choose 1) <ul style="list-style-type: none"> • American Government • CP American Government 	Social Studies (choose 1) <ul style="list-style-type: none"> • Medals vs. Media • CP Economics • Seminar in Current Affairs • PA History
Physical Education 9	Physical Education 10	Physical Education 11	Physical Education 12
Health I	Computer Skills II	Health II	Independent Living
Computer Skills I			

* Students interested in 4 year colleges are **strongly suggested** to take CP, Honors, or AP courses. All Seneca students are suggested to take the most challenging course they can manage.

Student Notes:

ENGINEERING

This academy is designed to cultivate students' interests, awareness, and application to areas related to technologies necessary to design, develop, install or maintain physical systems.

Do you enjoy...

- Working with your hands?
- Working in a lab setting?
- Operating tools and equipment?
- Designing projects and models?
- Applying science and math to the real world?
- Solving complex problems?
- Understanding maps?

If you answered "Yes" to most of these questions, you might consider a future in one of the sample occupations listed in the Engineering academy based on their level of post secondary training.

SAMPLE CAREERS

ENTRY	TECHNICAL/SKILLED (1-3 YEARS)	PROFESSIONAL (4 OR + YEARS)
Carpet Installer	Grader & Dozer Operator	Navigator
Drywall Worker	Electric Technician	Aeronautical Engineer
Roofer	Metal Engineering Technician	Aerospace Engineer
Machine Operator	Auto Mechanic	Airline Pilot
Baggage Handler	Air Traffic Controller	Architect
Warehouse Worker	Auto Body Repair	Civil Engineering
Brick Mason	Bus Driver	Chemical Engineering
Carpenter	Diesel Mechanic	Computer Network Engineering
Electrician	Dispatch	Industrial Engineer
Plumber	Motorcycle Mechanic	Mechanical Engineering
Machinist	Taxi Driver	Astronaut
Diesel Mechanic	Truck Driver	Nuclear Engineer
Surveyor	Civil Engineering Technician	Petroleum Engineer
	Robotics Technician	NASA Scientist
	CAD Technician	Transportation Engineer

ENGINEERING COURSE OF STUDY

This four year plan of study should serve as a guide as you develop your

ACADEMIC CORE REQUIREMENTS

9 th	10 th	11 th	12 th
English 9 (choose 1) <ul style="list-style-type: none"> • Communications • College Prep • Pre-AP 	English 10 (choose 1) <ul style="list-style-type: none"> • Communications • College Prep • Pre-AP 	English 11 (choose 1) <ul style="list-style-type: none"> • Communications • College Prep • AP 	English 12 (choose 1) <ul style="list-style-type: none"> • Communications • College Prep • AP
Math (choose 1 track) <ul style="list-style-type: none"> • Algebra A + B Skills • Algebra A + B • CP Algebra I and II 	Math <ul style="list-style-type: none"> • Geometry Skills I + II • Geometry + Algebra II • CP/Honors Geometry and CP/Honors Trigonometry 	Math <ul style="list-style-type: none"> • Math 11 • No Requirement • No Requirement 	Math <ul style="list-style-type: none"> • No Requirement • No Requirement • No Requirement
Science <ul style="list-style-type: none"> • Environmental Science • CP Environmental Science 	Science <ul style="list-style-type: none"> • Biology • CP Biology • AP Biology • AP Environmental Science 	Science <ul style="list-style-type: none"> • Physical Science • CP Chemistry • AP Chemistry 	Science <ul style="list-style-type: none"> • Chemistry • CP Physics • AP Physics
Social Studies (choose 1) <ul style="list-style-type: none"> • American History • CP American History 	Social Studies (choose 1) <ul style="list-style-type: none"> • World Cultures • CP World Cultures 	Social Studies (choose 1) <ul style="list-style-type: none"> • American Government • CP American Government 	Social Studies (choose 1) <ul style="list-style-type: none"> • Medals vs. Media • CP Economics • Seminar in Current Affairs • PA History
Physical Education 9	Physical Education 10	Physical Education 11	Physical Education 12
Health I	Computer Skills II	Health II	Independent Living
Computer Skills I			

* Students interested in 4 year colleges are **strongly suggested** to take CP, Honors, or AP courses. All Seneca students are suggested to take the most challenging course they can manage.

Student Notes:

ENGINEERING
****Strongly Recommended Electives****

9 th	10 th	11 th	12 th
Intro. To Industrial Arts	Intro. To Industrial Arts	Intro. To Industrial Arts	Intro. To Industrial Arts
Intro. To Stage Craft	Intro. To Stage Craft	Intro. To Stage Craft	Intro. To Stage Craft
ROTC	Computer Aided Drafting	Computer Aided Drafting	Computer Aided Drafting
French I	Wood Working Technology	Wood Working Technology	Wood Working Technology
Spanish I	Graphic Communications I and II	Graphic Communications I and II	Graphic Communications I and II
Programming in Basic Graphics I	CP Chemistry	CP Chemistry	CP Chemistry
	AP Environmental Science	AP Environmental Science	AP Environmental Science
	ROTC	Advanced Woods	Advanced Woods
	Housing & Interiors	Physics	Physics
	French I /II/ III	ROTC	ROTC
	Spanish I/ II/ III	Housing & Interiors	Housing & Interiors
	Programming in Basic	French I /II/ III /AP	French I /II/ III /AP
	Programming in C++	Spanish I/ II/ III	Spanish I/ II/ III
		SAT Verbal/Math	SAT Verbal/Math
		AP Chemistry	AP Chemistry
		CO-OP	CO-OP
		RCI Courses	RCI Courses
		Internships	Internships
		CP Statistics	YES
		Robotics	CP Statistics
		Programming in Basic	Robotics
		Programming in C++	Programming in C++
			Seminar in Current Affairs
			Programming in Basic

**** Please note – Before selecting any required course OR elective, be sure that all prerequisites have been met. Check the course description pages of this booklet for more information.**

Student Notes:

HUMAN SERVICES

This academy is designed to cultivate students' interests, skills and experience for employment in careers related to human needs.

Do you enjoy...

- Working with people?
- Serving others' needs?
- Handling complaints?
- Counseling and advising others?
- Selling products and services?
- Interviewing people?
- Working as a team?
- Being creative?

If you answered "Yes" to most of these questions, you might consider a future in one of the sample occupations listed in the Human Services academy based on their level of post secondary training.

SAMPLE CAREERS

ENTRY	TECHNICAL/SKILLED (1-3 YEARS)	PROFESSIONAL (4 OR + YEARS)
Child Care Worker	Barber	Funeral Director
Cosmetics Representative	Cosmetologist	Marriage and Family Therapist
Dry Cleaning Operator	Fashion Designer	College Professor
Home Health Aide	Manicurist	Principal
Library Assistant	Massage Therapist	Teacher
Armed Services	Mortician	City Manager
Bailiff	Teacher's Aide	Criminologist
Postal Services Worker	Crime Lab Technician	FBI Agent
Security Guard	Fire Fighter	Lawyer
Utility Worker	Bartender	Parole Officer
Aerobics Instructor	Chauffer	Paralegal
Waitress	Flight Attendant	Park Ranger
	Meat Cutter	Athletic Agent
	Personal Trainer	Chef
		Food Services Manager
		Hotel Management
		Family Planner

HUMAN SERVICES COURSE OF STUDY

This four year plan of study should serve as a guide as you develop your

ACADEMIC CORE REQUIREMENTS

9 th	10 th	11 th	12 th
English 9 (choose 1) <ul style="list-style-type: none"> • Communications • College Prep • Pre-AP 	English 10 (choose 1) <ul style="list-style-type: none"> • Communications • College Prep • Pre-AP 	English 11 (choose 1) <ul style="list-style-type: none"> • Communications • College Prep • AP 	English 12 (choose 1) <ul style="list-style-type: none"> • Communications • College Prep • AP
Math (choose 1 track) <ul style="list-style-type: none"> • Algebra A + B Skills • Algebra A + B • CP Algebra I and II 	Math <ul style="list-style-type: none"> • Geometry Skills I + II • Geometry + Algebra II • CP/Honors Geometry and CP/ Honors Trigonometry 	Math <ul style="list-style-type: none"> • Math 11 • No Requirement • No Requirement 	Math <ul style="list-style-type: none"> • No Requirement • No Requirement • No Requirement
Science <ul style="list-style-type: none"> • Environmental Science • CP Environmental Science 	Science <ul style="list-style-type: none"> • Biology • CP Biology • AP Biology • AP Environmental Science 	Science <ul style="list-style-type: none"> • Physical Science • CP Chemistry • AP Chemistry 	Science <ul style="list-style-type: none"> • Chemistry • CP Physics • AP Physics
Social Studies (choose 1) <ul style="list-style-type: none"> • American History • CP American History 	Social Studies (choose 1) <ul style="list-style-type: none"> • World Cultures • CP World Cultures 	Social Studies (choose 1) <ul style="list-style-type: none"> • American Government • CP American Government 	Social Studies (choose 1) <ul style="list-style-type: none"> • Medals vs. Media • CP Economics • Seminar in Current Affairs • PA History
Physical Education 9	Physical Education 10	Physical Education 11	Physical Education 12
Health I	Computer Skills II	Health II	Independent Living
Computer Skills I			

* Students interested in 4 year colleges are **strongly suggested** to take CP, Honors, or AP courses. All Seneca students are suggested to take the most challenging course they can manage.

Student Notes:

HUMAN SERVICES
****Strongly Recommended Electives****

9 th	10 th	11 th	12 th
ROTC	ROTC	ROTC	ROTC
French I	Criminal Justice	Criminal Justice	Criminal Justice
Spanish I	Food Management I / II	Psychology	Psychology
Medical Terminology	Housing & Interiors	Food Management I / II	Food Management I / II
	French I /II/ III	Housing & Interiors	Housing & Interiors
	Spanish I/ II/ III	Relationships & Marriage	Relationships & Marriage
	Medical Terminology	Child Development	Child Development
	Anatomy & Physiology	CP Chemistry	CP Chemistry
		French I /II/ III /AP	French I /II/ III/ AP
		Spanish I/ II/ III	Spanish I/ II/ III
		SAT Verbal/Math	Seminar in Current Affairs
		Forensic Science	SAT Verbal/Math
		Medical Terminology	Forensic Science
		Anatomy & Physiology	Medical Terminology
		Physics	Anatomy & Physiology
		Intro. to the Medical Professions	Physics
		CO-OP	Intro. to the Medical Professions
		RCI Courses	CO-OP
		Internships	RCI Courses
		CP Statistics	Internships
		Parenting	YES
		AP French IV	CP Statistics
			AP Psychology
			Robotics
			Medals vs. Media
			Parenting

***** Please note – Before selecting any required course OR elective, be sure that all prerequisites have been met. Check the course description pages of this booklet for more information.***

Student Notes:

SCIENCE & HEALTH

This academy is designed to cultivate students' interests in the life, physical and behavioral sciences.

Do you enjoy...

- Caring for sick animals?
- Working outdoors with wildlife?
- Working with numbers?
- Developing conclusions from data?
- Working with science and math theories?
- Helping others in a medical facility?
- Working with scientific research?

If you answered "Yes" to most of these questions, you might consider a future in one of the sample occupations listed in the Science and Health academy based on their level of post secondary training.

SAMPLE CAREERS

ENTRY	TECHNICAL/SKILLED (1-3 YEARS)	PROFESSIONAL (4 OR + YEARS)
Hospital Worker	Certified Nursing Assistant	Athletic Trainer
Patient Care Technician	Dental Hygienist	Chiropractor
Dialysis Technician	Licensed Practical Nurse	Dietician
EEG Technician	Medical Lab Technician	Physician Assistant
Home Health Aide	Pharmacy Assistant	Medical Examiner
Physical Therapy Aide	Radiological Technician	Pharmacists
Animal Caretaker	Respiratory Therapist	Physician
Breeder	Sports Instructor	Podiatrist
Farm Manager	Dental Lab Technician	Registered Nurse
Food Conservation Worker	Fish and Game Worker	Agronomist
Wildlife Reserve Worker	Forest Conservationist	Geographer
Zoo Caretaker	Veterinary Technician	Geologist
Hazardous Waste Technician	Sound Engineer	Marine Biologist
Optician	Emergency Medical Technician	Veterinarian
Data Entry	Assistant Physical Therapist	Chemist
		Soil Conservationist
		Geneticist
		Statistician
		Zoologist

SCIENCE & HEALTH COURSE OF STUDY

This four year plan of study should serve as a guide as you develop your

ACADEMIC CORE REQUIREMENTS

9 th	10 th	11 th	12 th
English 9 (choose 1) <ul style="list-style-type: none"> • Communications • College Prep • Pre-AP 	English 10 (choose 1) <ul style="list-style-type: none"> • Communications • College Prep • Pre-AP 	English 11 (choose 1) <ul style="list-style-type: none"> • Communications • College Prep • AP 	English 12 (choose 1) <ul style="list-style-type: none"> • Communications • College Prep • AP
Math (choose 1 track) <ul style="list-style-type: none"> • Algebra A + B Skills • Algebra A + B • CP Algebra I and II 	Math <ul style="list-style-type: none"> • Geometry Skills I + II • Geometry + Algebra II • CP/Honors Geometry and CP/ Honors Trigonometry 	Math <ul style="list-style-type: none"> • Math 11 • No Requirement • No Requirement 	Math <ul style="list-style-type: none"> • No Requirement • No Requirement • No Requirement
Science <ul style="list-style-type: none"> • Environmental Science • CP Environmental Science 	Science <ul style="list-style-type: none"> • Biology • CP Biology • AP Biology • AP Environmental Science 	Science <ul style="list-style-type: none"> • Physical Science • CP Chemistry • AP Chemistry 	Science <ul style="list-style-type: none"> • Chemistry • CP Physics • AP Physics
Social Studies (choose 1) <ul style="list-style-type: none"> • American History • CP American History 	Social Studies (choose 1) <ul style="list-style-type: none"> • World Cultures • CP World Cultures 	Social Studies (choose 1) <ul style="list-style-type: none"> • American Government • CP American Government 	Social Studies (choose 1) <ul style="list-style-type: none"> • Medals vs. Media • CP Economics • Seminar in Current Affairs • PA History
Physical Education 9	Physical Education 10	Physical Education 11	Physical Education 12
Health I	Computer Skills II	Health II	Independent Living
Computer Skills I			

* Students interested in four-year colleges are **strongly suggested** to take CP, Honors, or AP courses. All Seneca students are suggested to take the most challenging course they can manage.

Student Notes:

ENTREPRENEURSHIP

This academy is designed to cultivate students' interest in formulating a new business plan, and owning and operating a business.

Do you enjoy...

- **Being creative?**
- **Making budgets?**
- **Taking risks?**
- **Taking responsibility for your actions?**
- **Showing initiative?**
- **Record keeping?**

If you answered "Yes" to most of these then you might consider starting your own business as part of the Entrepreneurship academy.

ENTREPRENEURSHIP COURSE OF STUDY			
This four year plan of study should serve as a guide as you develop your **ACADEMIC CORE REQUIREMENTS**			
9 th	10 th	11 th	12 th
English 9 (choose 1) • Communications • College Prep • Pre-AP	English 10 (choose 1) • Communications • College Prep • Pre-AP	English 11 (choose 1) • Communications • College Prep • AP	English 12 (choose 1) • Communications • College Prep • AP
Math (choose 1 track) • Algebra A + B Skills • Algebra A + B • CP Algebra I and II	Math • Geometry Skills I + II • Geometry + Algebra II • CP/Honors Geometry and CP/ Honors Trigonometry	Math • Math 11 • No Requirement • No Requirement	Math • No Requirement • No Requirement • No Requirement
Science • Environmental Science • CP Environmental Science	Science • Biology • CP Biology • AP Biology • AP Environmental Science	Science • Physical Science • CP Chemistry • AP Chemistry	Science • Chemistry • CP Physics • AP Physics
Social Studies (choose 1) • American History • CP American History	Social Studies (choose 1) • World Cultures • CP World Cultures	Social Studies (choose 1) • American Government • CP American Government	Social Studies (choose 1) • Medals vs. Media • CP Economics • Seminar in Current Affairs • PA History
Physical Education 9	Physical Education 10	Physical Education 11	Physical Education 12
Health I	Computer Skills II	Health II	Independent Living
Computer Skills I			

SCHEDULING PROCEDURES

1. Required academic core courses will be selected for students based on student, parent, teacher information and assessment data. Final decisions will be made by Seneca administration and guidance.
2. Appeal process
 - To appeal any scheduling decisions, a written request must be made explaining your rationale for requesting a change within 1 week of finalizing your schedule with your guidance counselor.
 - Appeals that meet the criteria for change will be forwarded to the principal.
 - If necessary, the written appeal will be forwarded to the Assistant Superintendent.
3. Administration reserves the right to change any course selection based on extenuating circumstances.

WEIGHTED CLASSES

The classes listed below have been designated as weighted because of their highly accelerated academic difficulty. Weighted classes receive additional points when calculating grade average. Weighted course percent will be multiplied by 1.15 (Advanced Placement), 1.10 (Honors), or 1.05 (College Prep) before they are used in the calculation of GPA. Only weighted courses that are offered at Seneca can be used for class rank.

***College bound students must realize that the more competitive the college of choice is, the more of a necessity it is to take the most challenging courses available. The following is a listing of such courses.**

Honors Calculus	AP Economics
Honors Trig/Algebra	AP Chemistry II
AP Calculus	AP Biology
Honors Algebra II	French III
Honors Geometry	French IV
AP English 12	Spanish III
AP English 11	Anatomy & Physiology
Pre-AP English 10	AP Environmental Science
Pre-AP English 9	RCI Courses- ask for a list
AP Psychology	AP Studio Art

All courses with a College Prep designation

CREDIT REQUIREMENTS FOR PROMOTION

To be promoted to the next grade level, students must have the following credits:

Promotion to 9th grade	Successful completion of 8th grade
Promotion to 10th grade	6 credits
Promotion to 11th grade	13 credits
Promotion to 12th grade	20 credits
Graduation	28 credits (ECTS students 30 credits)

GRADUATION REQUIREMENTS

1. Each student must complete these **required courses and credits**:

Non-ECTS (Erie County Technical School) Students:

Subject	Credit
English	4.0
Social Studies	4.0
* Math (required: Algebra II and Geometry)	4.0 +
* Science	3.0
Physical Education	2.0
Health	1.0
Careers/Computer Skills I	1.0
Computer Skills II	0.5
Independent Living	0.5
Electives	7.0

TOTAL 28.0

* Starting with the class of 2013, students will need 4 sciences to graduate.

ECTS (Erie County Technical School) Students:

Subject	Credit
English	4.0
* Social Studies (see note below)	3.0
* Math (see note below)	4.0 +
Science	4.0
* Physical Education (see note below)	2.0
Health	1.0
Careers/Computer Skills	1.0
Computer Skills II	0.5
Independent Living	0.5
ECTS Lab	12.0

TOTAL 30.0

* **NOTE FOR ECTS STUDENTS:** the commonwealth of PA and the Wattsburg Area School District have granted waivers for ECTS students in the areas of **Physical Education** and **Social Studies**. These waivers apply only when necessary to meet the Algebra II, Geometry, and Science requirements. Ask your guidance counselor for details.

2. Mastery of Academic Standards Requirement:

Each student must demonstrate competency in Reading, and Mathematics on either the state assessments administered in grade 11 or 12 (PSSA) or local assessment aligned with the academic standards and state assessments. Students must score at the proficient level or better on either of these assessments in order to graduate. (Chapter 4, ~4.24)

3. Completion of Graduation Project

In order to fulfill requirements from Seneca High School, each student must complete a graduation portfolio under the direction of the guidance office. The portfolio is displayed on the next page.

Seneca High School Graduation Project Career Portfolio Contents

Grade 9- The following will be completed in 9th grade Computer/Careers class.

- *Careers that interest me (Career Cruising)
- *Career Matchmaker (Career Cruising)
- *Learning Styles (Career Cruising)
- *Career Clusters (Career Cruising)
- *Career and Life Goals (Career Cruising)

Grade 10- The following will be completed in 10th grade Computer Skills II

- *PLAN test (Guidance Day)
- *My Files (Comp II)- Research Paper/Pwr Point/PLP

Grade 11- The following will be completed through Guidance and on own time.

- *ASVAB test (Guidance Day)
- *Job Shadowing or Academy presentation/field trip (Guidance)
- *Career Planning Activities (Career Cruising)
- *Post-Secondary Plans (Career Cruising)
- *Schools that interest me (Career Cruising)

Grade 12- The following will be completed through Guidance and Ind. Living

- *Resume and Cover Letter (Independent Living)
- *Mock Interview (Independent Living)
- *SENIOR SURVEY (Guidance)
- Activities and Abilities (Career Cruising)
- Work Experience (Career Cruising)

* Denotes mandatory completion.

Special Programs

1. ECTS (Erie County Technical School):

Students may apply to the Erie County Technical School. See specific lab descriptions in the back of this handbook. The number of openings available to any given program is limited and selection for openings is very competitive. Therefore the following criteria are considered when selecting students: student grades, student attendance, student behavior and career focus as documented in your Personal Learning Plan.

2. COOPERATIVE / DIVERSIFIED OCCUPATIONS PROGRAM (through ECTS):

Cooperative education is coordinated through the Erie County Technical School. In this program, the cooperative coordinator works with a student's employer to supervise the student on the job. Junior and senior students may choose CO-OP as an elective credit.

3. RCI:

Seneca High School participates in the Regional Choice Initiative (RCI). RCI allows junior and senior students to take college courses from college professors at a significantly reduced tuition rate. The state of Pennsylvania offers partial tuition reimbursement to participating school districts. RCI courses are used as elective credits and cannot take the place of required courses. See your guidance counselor for a listing of available courses and pre-requisites each semester.

4. YES:

Your Employability Skills (YES) is an employment readiness program designed to help students develop the fundamental skills employers require to maintain a well-trained work force. It addresses key employability issues and offers participants a pathway to a secure and rewarding future. YES is designed for 12th grade students who will attend a college or other training programs upon graduation, as well as, for those who will enter the workforce immediately. The class includes instruction in seven areas: communications, teamwork, technology, personal development, health & safety, quality, and plant and business operations, including tours of businesses. Those who successfully complete all of the course requirements will earn a YES certificate which will indicate to employers that the students understand and demonstrate what it takes to be successful in the work environment. The YES certificate requirements are as follows: obtain a high school diploma (or GED), achieve a reading and math score equivalent to grade level 9.0 on the *Tests of Adult Basic Education (TABE)*, achieve a score of 21 out of 50 on the *Wonderlic Personnel Test (WPT)*, successfully pass a 6 panel drug screening, demonstrate attendance of 95 percent or better, and completion of 120 hours of coursework.

5. PROBLEM SOLVING STRATEGIES (Academic Decathlon):

Seneca High School participated in the local "Academic Decathlon" for the first time last year. Academic Decathlon is an intellectual competition involving local high schools. Students will be required to take a problem solving strategies course, attend summer orientations sessions and participate in after school study sessions. Participants will be chosen by the academic advisors.

6. BLENDED CYBER SCHOOL

The Blended Cyber School Program is an option offered to District students that provides a combination of computer-based and face to face instruction. While attending Wattsburg Area School District schools, participants in this program receive instruction through Internet-based courses supplied by Intermediate Unit 5. This instruction may be for the purpose of providing enrichment, credit recovery, or it may deliver standard curriculum in a nontraditional way. The advantages of the blended approach include: an increase in the use of technology, more engaging learning experiences, access to real-time feedback relative to tests, quizzes and other formative assessments, and the ability to involve parents in their student's education by allowing them to monitor assignments and assessments. The Wattsburg Area School District reserves the right to refuse admission to the program if the program does not serve the best educational interests of the student.

7. WIA (Workforce Investment Area):

The Workforce Investment Area (WIA) is a work readiness program that operates in conjunction with the Pennsylvania Career Link. The program is available to 11th and 12th grade students who meet stringent eligibility requirements including family income guidelines and evidence of a barrier to learning. The aim of the program is to help students attain work skills, enhance basic education, improve the student's commitment to graduate, and transition him or her to employment in the community. Students may be eligible to earn elective credit through their participation in the WIA program.

8. AIR FORCE JUNIOR ROTC PROGRAM:

Through Air Force Junior Reserve Officer Training Corps, students will become better citizens and leaders – confident, self-reliant and self-disciplined. Students will explore the civilian, industrial and military aspects of aerospace. Career-minded high school students will learn about jobs in the Air Force that will open important opportunities for the future. College bound students may receive an Air Force Academy nomination or an Air Force ROTC scholarship, if qualified, directly through their Air Force junior ROTC unit or they may receive credit for the first year of an Air Force ROTC four-year college program. In addition, free uniforms, insignia, and ROTC textbooks are provided. **A more detailed description of this program is on page 62.**

9. JUNIOR/SENIOR INTERNSHIPS – (ON CAMPUS ONLY)

The purpose of an internship during the junior or senior year is to explore an area of career interest. During the scheduling process, the student must fill out an application including the teacher signature and student essay explaining how the particular internship will provide career exploration in that area. Once accepted, the student will be notified. There are a limited number of internship openings each year; therefore it is possible that not all students that apply will be chosen for an internship. The following is a listing of all available internships for the 2007-08 school year. The general descriptions may be adjusted by the teacher to meet current needs. Students must pick up an application in the guidance office to complete in order to be eligible.

NCAA CLEARINGHOUSE

If you plan on playing sports in college, you must be prepared to do so academically.

The NCAA requires that student athletes take a certain number of “core courses” in order to participate in Division I or Division II athletics. Interested Seneca students **MUST** talk to their counselor about what classes they should take. This should occur as early as your freshman year **before** you schedule your classes.

The majority of your classes should have the CP or an advanced designation. Again, please talk to your counselor for more details.

CLUBS AND SPORTS

CLUBS

National Honor Society (NHS)
Student Council
Newspaper
Yearbook
Stage Crew
Seneca Musical (Spring)
Seneca Dinner Theatre (Fall)
Hunting/ Fishing Club
Academic Decathlon/ Academic Sports League (ASL)
Science Olympiad
Weightlifting
French club
Student Ambassador
Future Business Leaders of America (FBLA)
Robotics Club
ROTC Drill Team

SPORTS

Basketball
Soccer
Cross Country
Football
Softball
Wrestling
Cheerleading
Baseball
Golf
Volleyball
Track and Field

ENGLISH 10-COMMUNICATIONS GRADE 10 REQUIRED 1.00 Credit

English 10 Communications will build upon the foundations established in English 9 Communications. Upon completion of this course, students will be able to effectively read, compose, and present information on various topics; synthesize life experiences portrayed in literature; interpret, analyze, and edit their writing and that of their peers; conduct research and demonstrate mastery of informative and persuasive essay writing, as well as producing a MLA research-based paper. Acquiring vocabulary through context clues and writing will be assessed, as well as individual reading comprehension for fiction and non-fiction in preparation for standardized testing during the junior year.

COLLEGE PREP ENGLISH 10 GRADE 10 REQUIRED 1.00 Credit

English 10-College Prep will extend the foundations established in College Prep English 9. Upon completion of this class, students will be able to use computers for research (Internet) to supplement traditional research methods; independently and cooperatively read current publications and literature with greater emphasis on analysis of the components of literature; expand knowledge of context vocabulary and grammar usage in preparation for college entrance exams; demonstrate proper academic etiquette; organize and deliver oral presentations. **SUMMER READING IS REQUIRED. (Interest in a 4-year college and at least a “B” average in 9th grade English are strongly recommended.)**

PRE-AP ENGLISH 10 GRADE 10 REQUIRED 1.00 Credit WEIGHTED

This course is designed for college bound students who want an advanced academic challenge and are interested in taking the AP English Literature and AP Composition courses in grades 11-12. It is recommended that only students with advanced abilities in English enroll in this course. Students should be reading at or above grade level and perform exceptionally in previous classes and on standardized tests. Pre-AP English 9-10 will lay a foundation for skills necessary to succeed in future AP classes and on AP exams. Students will conduct research, write essays, read and analyze various forms of literature and composition, study vocabulary and grammar as well as practice verbal communication and discussion skills. This course will build on skills taught in Pre-AP English 9. **Summer reading is required for this course.**

ENGLISH 11 - COMMUNICATIONS GRADE 11 REQUIRED 1.00 Credit

This course will promote mastery of skills assessed on the PSSA. It emphasizes reading and composition skills necessary for success in both the workplace and on the PSSA. Topics include, but are not limited to the following: fiction and non-fiction reading texts, composition, research, vocabulary development, and grammar. Students write a variety of informational and persuasive essays, develop research skills, read various pieces of literature, and apply an understanding of grammar and vocabulary to both written and oral communication.

COLLEGE PREP ENGLISH 11 GRADE 11 REQUIRED 1.00 Credit

This course is designed for students who plan to acquire a two or four-year college degree. The course emphasizes proficiency in skills necessary for college success. These include, but are not limited to: composition, research, reading, grammar, vocabulary development, and oral communications. Students write a variety of informational and persuasive essays, develop research skills, read various pieces of literature, and apply an understanding of grammar to both written and oral communication. **Summer reading is required.**

*AP ENGLISH 11GRADE 111.00 CreditWEIGHTED

This is an advanced course for students with advanced abilities in literature, vocabulary, grammar and composition. Intense reading and writing will be required. Much of the work completed in this class occurs independently, as it is taught on a college level. Critical thinking, analysis and evaluation skills are required. Students who earn an “A” or “B” in their previous Pre-AP English class are accepted into the AP course only with teacher recommendation. **Summer reading is required and will be expanded beyond what is required for other college bound English classes.** Admission to this course may be restricted based on performance in previous English classes and teacher recommendation. Students should be reading and writing above grade level expectations. This is an ADVANCED course.

- ***It is strongly recommended that students enrolled in this class have taken the Pre-AP English 9-10 classes.***
- *AP Literature and AP Composition are two separate courses taught on a rotating basis so that students may have exposure to the AP Literature curriculum and AP Composition curriculum between grades 11 and 12. Students interested in taking the AP exam should enroll in both courses between their junior and senior years.*

ENGLISH 12-COMMUNICATIONSGRADE 12REQUIRED1.00 Credit

This course concludes the sequence of basic English skills with a review of master items in grammar and composition. Critical reading skills will be applied to a variety of literary forms. Vocabulary, communication and research skills will give the student a solid foundation for literate adulthood.

COLLEGE PREP ENGLISH 12GRADE 12REQUIRED1.00 Credit

This is a course designed for the student who will be attending a traditional college program after graduation. It is a semester course with a literature base. In addition, study skills, critical thinking skills, and time management builds an essential framework for the course. While including work on vocabulary development and mastery of grammar and usage, the course aims for the development of a clear, precise style of writing, preparing the student for college level work. **An average of “B” or better is strongly recommended in CP English 11 in order to take this class. SUMMER READING IS REQUIRED.**

*AP ENGLISH 12GRADE 121.00 CreditWEIGHTED

This is an advanced course for students with advanced abilities in literature, vocabulary, grammar and composition. Intense reading and writing will be required. Much of the work done in this class is done independently as it is taught on a college level. Critical thinking, analysis and evaluation skills are required. Students who earn an “A” or “B” in their previous AP English class are accepted into the AP course only with teacher recommendation. The state mandated senior project will be facilitated in this class. **Summer reading is required and will be expanded beyond what is required for other college bound English classes.** Admission to this course may be restricted based on performance in previous English classes and teacher recommendation. Students should be reading and writing above grade level expectations. This is an ADVANCED course.

- ***AP English 11 is a prerequisite for this course.***
- *AP Literature and AP Composition are two separate courses taught on a rotating basis so that students may have exposure to the AP Literature curriculum and AP Composition curriculum between grades 11 and 12. Students interested in taking the AP exam should enroll in both courses between their junior and senior years.*

SAT VERBALGRADE 11-12.50 Credit

SAT Verbal will build foundations for SAT test taking skills and vocabulary skills. The goal of the course is for the students to improve upon their entry-level performance (diagnostic test) with daily practice of SAT test questions. Students will be expected to demonstrate effort and improvement in their test taking skills. Completion of this course will help students gain confidence, understanding and techniques for succeeding on the verbal section or the SAT test. Topics covered include: Test set up, scoring, vocabulary, test tips, and strategies for approaching writing, sentence completion and critical reading portions of the exam. This class is designed for students planning for college and those taking the SAT. All students with academic career goals/college goals should sign up for this course. Students will be “STRONGLY” encouraged to take this. Students whose plans include taking the SAT must take the SAT Verbal and the SAT Math courses offered by Seneca High School. **The prerequisite for this class is successful completion of CP English 9 and 10. Some exceptions will be made based on grades in the applied curriculum.**

PUBLICATIONS/ CREATIVE WRITINGGRADE 9-121.00 Credit

Publications I is a course designed to acquaint the student with basic journalism and creative writing. Journalism is explored in the development of the newspaper while creative writing will focus on short stories, drama, and poetry. Both genres develop skills in various types of writing and will utilize these skills in producing the school newspaper as well as the literary magazine. Principles of advertising, publicity, lay out, and photography will also be employed. It is a recommended course for those interested in journalism/writing/advertising/ photography careers. Students who enroll should expect to actively participate every day. Those enrolling must be able to meet deadlines. **Pre-requisite: complete English 9 with a “B” or better.**

DRAMA IGRADE 9-121.00 Credit

This course is for any student interested in drama, theatre or acting. Topics covered will include (but are not limited to): history of the theater, acting techniques, character interpretation, script analysis, staging, basic costuming, lights, sound, makeup etc. **Students must be involved in some aspect of the school theatrical production during the semester they are enrolled in the class.** Independent reading, research and memorization of scripts will be required in this class. Students should have a strong ability and interest in reading. **Students must attend (at their own expense) theatrical performances outside of Seneca High School and write a critique of the performances.**

DRAMA IIGRADE 10-121.00 Credit

This advanced course is intended for students with a "C" or better in Drama I. It is also recommended that students have a "C" or better in their English class. This course will focus on the specific works of the theatre. Selections will be based in part on teacher and student interest. This is a more literature dependent course than Drama I and will require independent reading and text analysis. Students will also be required to memorize text and perform selections. Concepts in Drama I will be explored and developed on a more advanced level. **Students must attend and critique theatrical performances independently at their own expense. It is expected that students enrolled in this course be involved with the theatrical productions at Seneca in some capacity.**

SPECIAL TOPICS IN THEATRE10-12ELECTIVE1.0 CREDIT

This course will offer a more in depth look at specific topics in theatre, drama and performance that are of special interests to those in the class. Students will have input in selecting the topics explored and will also design a focus of study. Because the content will vary each year, students may opt to enroll more than once in the class. **Students will write theatrical critiques of shows they see outside of school time and at their own expense. Involvement in the current Seneca production will be required. Students taking this class should have completed Drama I with a “C” or better. Prerequisite: Drama I.**

SEMINAR IN CURRENT AFFAIRS GRADE 12 REQUIRED 1.00 Credit

This course includes in-depth discussions of current events and issues at the local, national and international level. Issues may include countries at war, natural disasters, terrorism, international politics and local student issues. The course requires the writing of a research paper as well as extensive class participation. This course is designed for advanced or gifted students. **A student must have a "B" average in prior social studies classes before scheduling this course.**

PENNSYLVANIA HISTORY GRADES 12 REQUIRED 1.0 CREDIT

A history of the state of Pennsylvania that emphasizes the key role it has played in the history of this nation. Emphasis will be placed on industrial development, cultural contributions, military events, and constitutional issues in which Pennsylvania has had a pivotal role. A regional visit to one historic site is a course requirement. Students will research inventions and all of the "Historical First Time" events that were started in the state of Pennsylvania. In addition, the course also takes a geographical look at the various counties and regions in the state of Pennsylvania.

CRIMINAL JUSTICE GRADES 10-12 ELECTIVE 1.00 Credit

This course is designed to focus directly on the crime picture in America and the three traditional elements of the criminal justice system: police, courts, and corrections. It further emphasizes citizenship responsibilities by painting a picture of crime in America today, suggesting possible causes for it, and showing how policies for dealing with crime have evolved. Working toward this goal, the students will develop competencies in understanding the philosophy of the U.S. Justice System, recognizing the fundamental guarantees of due process, examining the foundations of American Government, and exploring potential problems pertaining to crime in our society. As a culminating feature, a brief introduction to various career choices in Criminal Justice will be implemented.

MEDIA AND MEDALS GRADE 12 REQUIRED 1.00 Credit

Students will make connections to the past and senior generations by developing an understanding of what individuals had to endure during major historical conflicts. Medal of Honor recipients, as told by the recipients themselves. There are more than 100 recipients that have been interviewed and their stories recorded for history, to both enjoy and learn from. These interviews have been synthesized into eight minute vignettes that tell the recipient's individual story. This set of vignettes gives teachers and students, the opportunity to gain a greater appreciation for what the Medal of Honor and the recipients who wear it represent. The second part of this course takes a look at how the media reports and shapes our views of history. Students will watch Hollywood movies and other media reports that try to capture and shape our views on historical events. Students will research those events for accuracy while comparing and contrasting fact versus sensationalism.

MATHEMATICS DEPARTMENT

ALGEBRA A SKILLS GRADE 9-12 1.00 Credit

This course is designed to prepare a student to succeed in Algebra. Hands on activities and practical problem solving activities will be used throughout the course. Variables, expressions and integers will be introduced early. Review of basic skills will be done throughout the course along with computational skills that will be reinforced in the content areas. Topics to be covered include order of operations, absolute value, inductive reasoning, coordinate plane, properties of numbers, solving one-step equations and inequalities. Proper adaptations will be made based on individual needs. This class is strongly recommended for students with an IEP.

ALGEBRA B SKILLSGRADE 9-121.00 Credit

This course is designed to prepare a student to succeed in Algebra. Hands on activities and practical problem solving activities will be used throughout the course. A review of variables, expressions, integers and a review of basic skills will be done throughout the course along with computational skills that will be reinforced in the content areas. Topics to be covered include estimating, measures of central tendency, solving equations involving decimals, prime factorization, rational numbers, simplifying fractions, exponents and scientific notation. Students must successfully complete Pre-Algebra Skills I to be in this course. Proper adaptations will be made based on individual needs. This class is strongly recommended for students with an IEP.

GEOMETRY SKILLS IGRADE 10-121.00 Credit

This course focuses on basic geometry figures, measuring angles, special angles, parallel lines, perpendicular lines, angles with transversals, congruent triangles, properties of polygons and quadrilaterals, reasoning and proofs, including inductive/deductive reasoning and conditional statements. Review of basic operations and skills will be done throughout the course. Students must successfully complete Pre-Algebra Skills I and II to be in this course. Proper adaptations will be made based on individual needs. This class is strongly recommended for students with an IEP.

GEOMETRY SKILLS IIGRADE 10-121.00 Credit

This course focuses on similar triangles, Pythagorean theorem, special right triangles, vectors, distance formula, area of rectangles, squares, parallelograms, triangles, trapezoids, circles, volumes of prisms, cylinders, pyramids, cones, spheres, and transformations (reflections, rotations, and dilations). Review of basic operations and skills will be done throughout the course. Students must successfully complete Geometry Skills I to be in this course. Proper adaptations will be made based on individual needs. This class is strongly recommended for students with an IEP.

MATH SKILLSGRADE 9-121.00 Credit

This class focuses on life skills in math. Students may work on money skills, business skills, independent living skills as well as pre-algebra, algebra and geometry skills. Students must have an IEP referencing behavioral needs in order to enroll in this class.

ALGEBRA AGRADE 9-121.00 Credit

Algebra A is designed to focus on the concepts of Algebra but at a slower pace. This is the first half of the Algebra course and students need to complete Algebra A and Algebra B to master all the competencies needed for an Algebra I course. Activities, which provide cooperative group work, will be included throughout the course. Topics to be covered include a review of middle school math which includes the tools of algebra (order of operations, signed numbers), functions and their graphs, solving equations including one-step, two-step and multi step equations, solving inequalities, graphing and writing linear equations. Upon completion of this course, students will be ready to take Algebra B.

ALGEBRA BGRADE 9 - 121.00 Credit

Algebra B is a continuation from Algebra A and is the next step towards completion of the Algebra I competencies. This course will include activities that provide cooperative group work for those students who learn best in this type of a classroom. Topics to be included are systems of equations and inequalities, quadratic equations and functions, right triangles and radical expressions, polynomials and rational expressions. Upon completion of this course, students will be ready for Geometry.

COLLEGE PREP ALGEBRA IGRADE 9-121.00 Credit

Algebra I teaches a student to write and solve equations and inequalities. Practical applications are presented through word problems. Problems are solved using functions, linear equations, polynomials, and simultaneous equations. It is highly recommended that students have earned at least a "B" in their previous Math Class. Eighth grade Algebra I will count toward total credits earned, but will not count as one of the four required math credits.

*HONORS ALGEBRA IGRADE 9-121.00 CreditWEIGHTED

Honors Algebra I teaches a student to solve equations and inequalities including solving practical applications through word problems. Functions, linear equations and inequalities, simultaneous equations, polynomials and factoring, rational expressions, data and graphs will be thoroughly studied. This is an accelerated class and students will be expected to meet high expectations. Students following the honors track will be able to take Advanced Placement Calculus test for college credit. Eighth grade Algebra I will count toward total credits earned, but will not count as one of the four required math credits. **The prerequisite for this class is an "A" in the previous mathematics class and teacher recommendation.**

ALGEBRA IIGRADE 9-121.00 Credit

A good background in Algebra I is a necessity. The basic premise is an in-depth study and development of the elementary concepts learned in that course. Extensive work in the fields of linear and quadratic equations both on solutions and graphing make up the major areas of the work. **The prerequisite for this class is the completion of Algebra A & B or CP Algebra I or teacher recommendation.**

COLLEGE PREP ALGEBRA IIGRADE 9-121.00 Credit

A good background in Algebra I is a necessity. The basic premise is an in-depth study and development of the elementary concepts learned in Algebra I. Additional topics include rational expression, powers, roots and complex numbers, quadratic equations and transformations. These topics will aid in the preparations for the SAT and PSSA tests. **The prerequisite for this class is the completion of CP Algebra I, or Algebra I and teacher recommendation.**

* HONORS ALGEBRA IIGRADE 9-12WEIGHTED1.00 Credit

Topics in this class will include a review of linear functions, systems of equations in two and three variables, factoring, exponents and radicals, quadratic and polynomial functions, variation and proportion, exponential and logarithmic functions, and matrices. This is an accelerated class and students will be expected to meet high expectations. **Prerequisite: Honors or CP Algebra I, or a teacher recommendation.**

GEOMETRYGRADE 9 - 121.00 Credit

Topics in this course include lines, planes, triangles, polygons, circles, solid figures, similarity and trigonometry of right triangles. Students will be introduced to two column deductive proofs. **The prerequisite for this class is successful completion of Algebra B or Algebra II.**

COLLEGE PREP GEOMETRYGRADE 9-121.00 Credit

Topics in this class will include lines, planes, triangles, polygons, circles, solid figures, similarity, and trigonometry of right triangles. Students will work extensively with two column deductive proofs enabling them to gain the skills needed to think logically learning to approach problems "step by step." Theorems, corollaries, and postulates are used daily in proofs and applications. **The prerequisites are CP Algebra II or teacher recommendation.**

*HONORS GEOMETRYGRADE 9-12WEIGHTED1.00 Credit

Topics in this class will include lines, planes, triangles, polygons, circles, solid figures, similarity, and trigonometry of right triangles. Students will work extensively with two column deductive proofs enabling them to gain the skills needed to think logically learning to approach problems "step by step." Theorems, corollaries, and postulates are used daily in proofs and applications.

Students are challenged to prove theorems and corollaries. This is an accelerated class and students will be expected to meet high expectations. **The prerequisite is the completion of CP or Honors Algebra II with an “A” or “B” or teacher recommendation.**

COLLEGE PREP TRIGONOMETRY GRADE 10-12 1.00 Credit

This course will contain an extensive study of trig functions, trigonometry, conic sections, and exponential logarithmic functions. Graphics calculators are used extensively. **Prerequisites are CP Algebra II and CP Geometry, or Algebra II and Geometry with a minimum grade of C and teacher recommendation. To take Honors Calculus you must earn at least a “C” in this class and have a teacher recommendation.**

*HONORS TRIGONOMETRY GRADE 10-12 WEIGHTED 1.00 Credit

Topics included in this class will be a brief review of linear and polynomial functions, rational functions, conic sections, trigonometry of right angles, analytic trigonometry, trigonometry of oblique triangles, exponential logarithmic functions and analytic geometry. Graphics calculators will be used extensively. This is an accelerated class and students will be expected to meet high expectations. Students following the honors track will be able to take Advanced Placement Calculus test for college credit. **Prerequisite for this class is the completion of Honors Algebra II or Honors Geometry with at least a “B”, or with teacher recommendation.**

*HONORS CALCULUS GRADE 10 -12 WEIGHTED 1.00 Credit

This course is designed to aid students that are going on to higher education in a field where a strong mathematics background is needed. The topics to be included in the course are 1.) function, graphs, and limits (analysis of graphs, limits of functions, asymptotic and unbounded behavior, and continuity as a property of functions), 2.) derivatives (concept of the derivative, derivative at point, derivatives as a function, second derivatives, applications of derivatives, and computation of derivatives, and 3.) integrals (interpretations and properties of definite integrals). **The prerequisite to schedule AP Calculus is a B or better in this class.**

CP STATISTICS GRADE 11-12 1.00 Credit

This course of statistics will introduce the student to various techniques to analyze real life data, and then use that information to solve problems. It will also give the students the tools to use with data that they may encounter in their job area after college.

*AP CALCULUS GRADE 11-12 WEIGHTED 1.00 Credit

AP Calculus is a second semester block course in Calculus. The skills presented are necessary for the successful completion of the high school Advanced Placement Calculus AB test. The topics to be included in the course are: 1.) function, graphs, and limits (analysis of graphs, limits of functions, asymptotic and unbounded behavior, and continuity as a property of functions), 2.) derivatives (concept of the derivative, derivative at point, derivatives as a function, second derivatives, applications of derivatives, and computation of derivatives, and 3.) integrals (interpretations and properties of definite integrals, applications of integrals, fundamental theorem of calculus, techniques of anti-differentiation, applications of anti-differentiation, and numerical approximations to definite integrals). Special preparation for the AP test will be given in class.

ACCOUNTING I GRADE 10-12 1.00 Credit

This is an excellent class for business, administrative, and college-bound students. Any student may take this class as an elective. You may receive a math credit if you have previously completed Algebra II and Geometry. Students will learn how to record, summarize and report a business’s financial information using both a manual and computerized accounting system for a proprietorship and partnership. **Financial Management is a prerequisite for this course.**

SAT MATHGRADE 11-12.50 Credit

This class is a complete review of the topics covered in the mathematics portion of the SAT I Reasoning Test. The emphasis will be on a student's reasoning and problem solving abilities in the following mathematical areas: number and operations, algebra and functions, geometry, statistics, probability and data analysis. Expanded math topics, such as exponential growth, absolute value and function notation will be covered. Mathematical insights, shortcuts, strategies and critical thinking skills will be discussed and utilized to help students prepare for the test. Algebra Skills will be emphasized to better prepare for the new SAT. Students will take several actual PSAT and SAT tests and score them. It is recommended that students should have completed a geometry class and an Algebra II class or at least be taking it at the same time as the SAT class. Students whose plans include taking the SAT and go on to a 4-year college/university must take the SAT Verbal and the SAT Math courses offered by Seneca High School simultaneously. **The prerequisite for this class is successful completion of CP Algebra II and CP Geometry. Some exceptions will be made based on grades in the applied curriculum.**

CP MATHEMATICAL APPLICATIONSGRADE 11-12REQUIRED1.00 Credit

This is a class that is geared to developing student problem solving skills, an appreciation of mathematics and an understanding of mathematical applications. Topics may include problem solving, critical thinking, set theory, financial management, probability theory, statistics, and logic. Projects will be incorporated throughout the course. **Prerequisite: Algebra II and Geometry.**

MATH 11GRADE 11REQUIRED1.0 CREDIT

This course will help students prepare for the PSSA Test in mathematics. It will show students what the math questions on the PSSA Test are like. It will tell students what they need to know to do well on the test. It will give them practice on the kinds of math topics that will be on the test. It will present questions in both PSSA formats- multiple-choice questions and open-ended questions. **This class is strongly recommended for students with an IEP.**

SCIENCE DEPARTMENTENVIRONMENTAL SCIENCEGRADE 9REQUIRED1.00 Credit

This course develops an awareness of the environment and basic principles of ecology by presenting the earth as the only known viable habitat for people and other organisms. Students will explore the ways in which people use energy and alternative fuels to meet the need of the growing population. Problems associated with land pollution and land management as well as the need for biodiversity will be discussed and environmental issues explored. **This course is designed for non-science post-secondary students or students planning on entering the work force.**

COLLEGE PREP ENVIRONMENTAL SCIENCEGRADE 9REQUIRED1.00 Credit

In this course, students will be presented with the basic principles of ecology and geology as well as the methodologies required to maintain our natural world. Lab work will involve complete analysis of ecosystem parameters. Students will synthesize and evaluate solutions to a sustainable future. **This course is designed for non-science college bound students.**

*AP ENVIRONMENTAL SCIENCE (weighted) GRADE 10-12 ELECTIVE 1.00 Credit

The goal of this course is to provide students with science principles, concepts, and methodologies required to understand the interrelationships of the natural world. It is an AP level college course preparing students for success in college science courses and the AP Environmental National Exam with rigorous concepts and laboratory exercises. With the use of labs, students will identify and analyze environmental and societal problems. They will evaluate the relative risks and possible solutions associated with these problems. Upon completion of this course students may choose to take the AP Environmental Science Exam. **This course is designed to be equivalent to a college science course for science majors. AP credit for non-science majors is available through most universities. Prerequisites: A "B" or better in College Prep Environmental Science**

BIOLOGY GRADE 9-11 REQUIRED 1.00 Credit

This course is designed for the student who wishes to study the science of the living world. Students will investigate taxonomy, cellular structure and function, fundamental biochemistry, genetics, theory of evolution, and botany. Students will actively research and discuss current Science, Technology, and Societal Issues. **This course is designed for non-science post-secondary bound students or students planning on entering the work force.**

COLLEGE PREP BIOLOGY GRADE 9-11 REQUIRED 1.00 Credit

This course is designed for the student who wishes to study the science of the living world. The laboratory-based curriculum includes Biochemistry, Respiration, Photosynthesis, Cellular Organization, Genetics, Taxonomy, Evolution and Biodiversity. Students will be expected to use problem solving, critical thinking, and communication skills in laboratory and classroom experiences. Students will actively research and discuss current Science, Technology, and Societal Issues. **This course is designed for college bound students.**

*AP BIOLOGY (weighted) GRADE 11-12 ELECTIVE 1.00 Credit

The Advanced Placement Biology course is an investigative laboratory course that emphasizes experimental design, techniques, instrumentation, analysis and interpretation of data, and written and oral presentation. The course consists of three project modules designed to illustrate investigative approaches at different levels of biological organization: molecular/cellular, organismal/physiology, and population/ecosystem. There is an emphasis on independent and cooperative laboratory/field work, and on oral and written scientific presentation. The purpose of the AP biology course is to prepare students for success in college science courses and the AP Biology National Exam. Students will be required to attend some Saturday labs and complete preparation work outside of the classroom. **Prerequisites: College Prep Environmental Science, College Prep Chemistry, College Prep Biology. Recommend: Anatomy and Physiology if taking the Advanced Placement Biology National Exam.**

CHEMISTRY GRADE 10-11 REQUIRED 1.00 Credit

Chemistry is designed for the student who wishes to study the composition, structure, and properties of matter and the changes it undergoes. The class is oriented to aid students in developing a basic understanding of the facts and concepts relating to the study of the behavior of physical and chemical changes that occur in the everyday world. Students will be evaluated on their projects, tests, written work, cooperative learning groups, participation, investigations and protocol. **This course is designed for non-science post-secondary students or students planning on entering the work force.**

COLLEGE PREP CHEMISTRYGRADE 10-12REQUIRED1.00 Credit

This course covers principal chemistry concepts such as matter and measurements, the atom, periodic law, chemical bonding and shapes, chemical formulas, chemical reactions, stoichiometry, organic chemistry, and gas laws. Students will be expected to use mathematical problem-solving, critical thinking and communication skills in student-directed laboratory and classroom experiences. Open ended and inquiry based laboratory experiments are an integral part of this curriculum along with the development of formal lab reports. Students will use higher level thinking when presented with both abstract and concrete concepts. **This course is designed for college bound students. Prerequisites: CP Algebra II and CP Biology with a “C” or better.**

*AP CHEMISTRY (weighted)GRADE 11-12ELECTIVE1.00 Credit

This course is designed to advance the student’s knowledge of chemistry. It is an AP level course preparing students for success in college science courses and the AP Chemistry national exam with rigorous concepts and laboratory exercises. The concepts include bonding, states of matter, quantum numbers, thermochemistry, solutions, reaction kinetics, equilibrium, acids and bases, oxidation/reduction reactions, electrochemistry, nuclear chemistry, spontaneity/free energy/entropy, and organic chemistry. The class will utilize intense hands-on laboratory practices for further development of scientific inquiry skills. **Note: Some labs will need to be completed after school if a larger amount of time is needed. This course is designed to be the equivalent to a college science course for science majors. Prerequisites: A “B” or better in College Prep Chemistry AND teacher recommendation (signature required). AP credit for non-science majors is available through most universities.**

MEDICAL TERMINOLOGYGRADE 9-12ELECTIVE1.00 Credit

This course introduces prefixes, suffixes, and word roots used in the language of medicine. Topics include medical vocabulary and the terms that relate to the anatomy, physiology, pathological conditions, and treatment of selected systems. Upon completion, students should be able to pronounce, spell, and define medical terms as related to selected body systems and their pathological disorders. **This course is a prerequisite for Anatomy & Physiology and Introductions to Medical Professions.**

*ANATOMY & PHYSIOLOGY (weighted)GRADE 10-12REQUIRED1.00 Credit

Anatomy and Physiology is a college level course with an in depth study of the structure and function of the human body. Special emphasis is given to the inter-relationships of human organs, systems and processes. The students will be required to research literature, conduct laboratory activities, and complete dissections. Emphasis will be placed on current biomedical, ethical and societal issues. **Prerequisite: CP Biology, Medical Terminology.**

FORENSIC SCIENCEGRADE 11-121.00 Credit

This is a hands-on scientific inquiry course designed to familiarize students with real crime scene analysis. Topics include the law, evidence, preservation, documentation, fingerprints, hair, fibers, drugs, toxicology, trace evidence, blood, DNA, human remains, soil analysis, glass, and handwriting analysis. Forensic Science is growing in need and popularity with shows such as CSI. This course is heavy in laboratory experimentation and logical reasoning. Students need to have a basic level of laboratory skills to enter this class. Technology is largely integrated within this course for laboratory instrumentation. A simulated crime scene is presented as the final exam through a week long experimental analysis of evidence. **This is a course for college bound students pursuing a career in science, law, political science, or the medical field. Prerequisites: Biology and Chemistry with a “C” or better.**

INTRODUCTION TO THE MEDICAL PROFESSIONSGRADE 11-121.00 Credit

This course is designed for those students who are considering post-secondary training or a career in the medical field. Overview of the Medical Profession and general skills in the nursing field will be covered in this course. Topics include: Medications; Infection Control; Safety and Comfort; Posture; Mobility; and Ambulation; Vital signs and Physical Assessment; Reporting and Recording; Admitting, transfer and discharge; Communication; Special Procedures; and Career and job descriptions. Students have the opportunity to be certified in American Red Cross CPR for the Professional Rescuer, First-Aid, AED as part of this course. **Prerequisites Medical Terminology and Anatomy & Physiology with a "C" or better**

PHYSICSGRADE 11-12REQUIRED1.00 Credit

This course provides a conceptually-based exposure to the fundamental principles and processes of the physical world. Topics include basic concepts of motion, forces, energy, heat, electricity, magnetism, and the structure of matter and the universe. Upon completion, students will be able to describe examples and applications of the principles studied. **This course is designed for non-science post-secondary students or students planning on entering the work force.**

COLLEGE PREP PHYSICSGRADE 11-121.00 Credit

This course is designed for the student who wishes to analyze the science of the physical world, or is interested in a career in science and engineering. Students will actively apply science and technology to real world applications such as motion and force, work and energy, temperature and kinetic theory, sound and waves, optics, and electricity and magnetism using high level thinking and inquiry skills. In addition, students will be required to complete open-ended and student designed labs and projects. Lab exercises are a main focus to develop critical thinking skills, and intense problem solving skills. **This course is designed for college bound students or students. Prerequisites: Trigonometry, CP Algebra II with a "C" or better.**

PHYSICAL SCIENCEGRADE 11-12REQUIRED1.00 Credit

An introductory course designed to allow students to explore the basic concepts of physical science. Students will be introduced to the history and nature of science. The course includes an introduction to the fundamental concepts of physics, chemistry, and astronomy. Students will be encouraged to explore the relationship between science and everyday life. This course is designed for non-science technological school students or students planning on entering the work force.

ROBOTICSGRADE 11-12ELECTIVE1.0 CREDIT

The objective of this course is to use a **hands-on** approach to introduce the basic concepts of robotics, focusing on mobile robots and illustrations of current state of the art research and applications. Course information will be tied to multiple robot constructions and students will work in teams to build and test increasingly more complex VEX-based mobile robots. In this course, basic concepts will be discussed including: speed, power, torque, DC motors, gears, chains & sprockets, friction & traction, drive train design, object manipulation, rotating joints, linkages and systems integration. These topics will be exemplified with VEX Robot Classroom Kits and CAD software. This course is intended for students with career interests in robotics and visual computing. **Prerequisites: CP Algebra II with a C or better and teacher approval.**

LANGUAGE DEPARTMENT

SPANISH I

GRADE 9-12

1.00 Credit

This course is designed to give the student a basic knowledge in the pronunciation of the language, a comprehension of grammatical constructions, the ability (in varying degrees) to express himself in the language, and the ability to read the language with some degree of facility. Some instruction in the history and cultures of the Spanish-speaking peoples is also given. Students are expected to participate in the class and to complete all work related to the class. **It is recommended that a student attain at least a "B" average in 8th grade language arts, or receive the instructor's approval to take this course.**

SPANISH II

GRADE 10-12

1.00 Credit

This course is an extension of the first level with more intensive studies in grammatical construction, translations from Spanish to English and English to Spanish. Other readings in the language through supplementary books will be added as well as more emphasis on the cultures of the peoples. Some project work on a voluntary basis will be included also. **It is recommended that a student attain at least a "B" average in Spanish I, or receive the instructor's approval to take this course.**

*SPANISH III (weighted)

GRADE 10-12

1.00 Credit

WEIGHTED

In this year of the Spanish program--the student will continue to develop the listening, speaking, reading, and, writing skills essential to learning a second language. The pronunciation and intonation in speaking the language will be perfected to meet approval of a native Spanish speaker. The student will, be able to understand a Spanish individual in informal conversations. In continuation of the Spanish culture, the student will read supplementary readings, books, magazines, etc. by leading Spanish authors and poets. **It is recommended that a student attain at least a "B" average in Spanish I and II, or receive the instructor's approval to take this course.**

FRENCH I

GRADE 9-12

1.00 Credit

French I is a one semester introductory course open to all interested students. Students will develop a basic knowledge of French grammar, vocabulary, pronunciation, and culture as they focus on the four areas of foreign language acquisition: speaking, listening, reading, and writing. These skills will be introduced and practiced through a variety of written materials, music, film, art, and role-play. Students are also introduced to the geography and culture of francophone (French-speaking) countries. Students are assessed based on written and oral tests, portfolios, conversations, and performance-based projects. **It is recommended that students have a "C" or above in 8th grade language arts to schedule this course.**

FRENCH II

GRADE 10-12

1.00 Credit

French II is a one semester course open to students who have completed level I or its equivalent with a "C" average or better. In French II, students build upon the skills that they established in French I, continuing their practice of speaking, listening, reading, and writing. There is an increased emphasis on grammar and conversation, and students explore a variety of linguistic and cultural topics through the use of text, video, music, Internet resources, and role-play. Students are assessed based on written and oral tests, portfolios, conversations, and performance-based projects. **It is recommended that students have "C" average or above to continue on to French III.**

*FRENCH III (weighted) GRADE 10-12 1.00 Credit WEIGHTED

French III is a semester-long honors course open to students who have completed levels I and II or the equivalent. In this year of the French program, little English is spoken, allowing students to be semi-immersed in the French language. Students hone their listening, speaking, reading, and writing skills while studying more sophisticated topics in grammar, vocabulary, conversation, and culture. Emphasis is placed on authentic materials in French, including texts, music, art, video, Internet resources, authentic conversation, and writing tasks. Students are assessed based on written and oral tests, portfolios, conversations, and performance-based projects. **It is highly recommended that a student attain a minimum “C” grade in French II to schedule this course.**

AP FRENCH IV (weighted) GRADE 11-12 ELECTIVE 1.0 CREDIT

Open to students who have successfully completed French 3, AP French Language is an advanced composition and conversation course conducted almost exclusively in French. In this course, students have the opportunity to integrate and build upon the knowledge, skills, and understandings that they have developed in previous French courses. This course, along with the lower-level French courses, emphasizes active communication, and students participate in daily activities aimed at building proficiency in listening, speaking, reading, and writing. Students write a variety of both informal compositions, write and perform role-plays and skits, conduct debates, present and discuss current events, and record narrations. They also gain exposure to a variety of Francophone speakers, authors, and cultures by reading texts from authentic sources, by watching films and clips from news programs, and by listening to songs, dialogues and radio broadcasts. These activities not only enable students to study grammar and vocabulary within meaningful contexts, but they also allow students to grow in their appreciation for the diverse francophone cultures and peoples of the world.

BUSINESS DEPARTMENT

INTRODUCTION TO BUSINESS & GRADE 9-12 1.00 Credit
BUSINESS LAW

This is a two part course: Part one – Introduction to Business, will introduce students to the environment in which business is transacted in modern times by presenting an overview of functional areas of business and the basic concepts of the business world. Part two – Business Law, will present an integrated approach to the legal environment of business with a fresh up to date introduction to those aspects of our legal system which cut across all areas of law, establishing a vital foundation for understanding the substantive subjects such as the Constitution, Criminal Law, Tort Law and Contracts, and Family Law.

FINANCIAL MANAGEMENT GRADE 9-12 1.00 Credit

This course provides students with many valuable consumer and vocational skills. As students move through the course, they learn how to prepare a wide range of financial records for personal and business uses, and they become familiar with the procedures related to personal money management and to major areas of business such as sales, purchases, cash receipts, cash payments, inventory and payroll. This course emphasizes the development of a business vocabulary and the reinforcement of basic math and reading skills. The course is divided into four parts: personal record keeping, basic business records, applied business records, and basic accounting procedures.

MULTIMEDIA PRODUCTIONS GRADE 10-12 1.00 Credit

This course is an overview of major multimedia applications for design, digital imaging, web design, presentation software and video. Use of image and information tools including scanners, camera, the Internet, and business applications are included. This class will capture SHS digital images, and create weekly highlights. Multimedia theory topics will include Image management, professional visual communications skills, print publishing, presentation strategies, Web publishing systems, oral and other professional communication skills. Projects will include working in Adobe Photoshop Elements, HP PrecisionScan, Microsoft Excel Charts, Microsoft Publisher, Microsoft PowerPoint, and Microsoft FrontPage.

ACCOUNTING I GRADE 10-12 1.00 Credit

This is an excellent class for business, administrative, and college-bound students. Any student may take this class as an elective. Students will learn how to record, summarize and report a business's financial information using both a manual and computerized accounting system for a proprietorship and partnership. **Financial Management is a prerequisite for this course.**

YOUR EMPLOYABILITY SKILLS (YES) GRADE 12 ELECTIVE 1.00 Credit

The YES certificate program helps students develop the fundamental skills employers require to maintain a well-trained work force. It addresses key employability issues and offers participants a pathway to a secure and rewarding future.

ENTREPRENEURSHIP/ADVERTISING GRADE 9-12 ELECTIVE 1.00 Credit

This course is designed to teach the students how to make money at a business that is planned during class (School Store). Students will learn the components of entrepreneurship creation, ownership, and developing a business plan. This course will also assist students to analyze, compose, create, and learn the advertising field and to incorporate this knowledge into their personal life.

COMPUTERS DEPARTMENT

COMPUTER SKILLS WITH REAL GRADE 9 REQUIRED 1.00 Credit
WORLD APPLICATIONS

This course will introduce the student to the basic concepts and operations of the computer. Students will learn the beginning "basics" of Windows, MS Word, MS Excel, MS PowerPoint, MS Outlook and Internet usage with career application projects. This course prepares students for the rapidly changing nature of the workplace. An emphasis on the workplace skills, on technology, and on understanding and working with cultural differences makes this course especially relevant and useful. This class also will equip students to identify long-term personal goals as well as provide them with a process and tools to make choices now and in the future time learning that they are as unique individuals and what they want from life.

COMPUTER SKILLS II GRADE 10 REQUIRED .50 Credit

This course will continue students learning covering intermediate MS Office applications associated with MS Word MS Excel, and MS PowerPoint. Students will be introduced to MS Access concepts. All concepts and skills will be associated with career application projects. The course is designed to help students become familiar with each application program for a period of time and offers sufficient repetition so routine commands can become second nature.

PROGRAMMING IN BASIC

GRADE 9-12

1.00 Credit

This semester course will teach the fundamentals of computer programming in Visual Basic.NET from the Microsoft Visual Studio Software. Students will be introduced to the material and will then proceed to write programs to solve problems. Students will gain a foundation in programming which will enable them to learn other languages once they are comfortable with the logic involved in programming in Visual Basic.NET. **Students must have completed Algebra I to take this class.**

INDUSTRIAL TECHNOLOGY DEPARTMENT

INTRO. INDUSTRIAL TECHNOLOGY

GRADE 9-12

1.00 Credit

This course is designed to provide the student with information and experience that relate to a series of technologies in the areas of Drafting, Communications, Photography, Woodworking, Manufacturing and Electricity. Student will spend time working on projects that directly relate to the above mentioned areas. Class time is divided into discussion, demonstration, and projection construction. Students will be given sufficient time to construct a variety of projects and become familiar with the Industrial Technologies Department.

COMPUTER AIDED DRAFTING

GRADE 9-12

1.00 Credit

This course is designed to give the student a working knowledge in the field of drafting and design. Areas of specialization include, equipment usage, shape description, plan development, measurement and scale usage, single and three view interpretation and residential home design. Additional areas of study will include an introduction to basic CAD. Students that are interested in Drafting, Engineering, Construction, Tool and Die, Real Estate, and Manufacturing should seriously consider taking this class.

COMPUTER AIDED DRAFTING 2

GRADE 11-12

1.00 Credit

This course will provide the student with an opportunity to study and apply the following skills of problem solving, math, communication, design, construction, manufacturing, and marketing. The student will experience firsthand the technologies involved in product design and development. **The prerequisite for this class is the successful completion of CAD.**

WOOD WORKING TECHNOLOGY

GRADE 10-12

1.00 Credit

This course involves introducing the student to studies utilizing wood, plastics and composites. Classwork will include providing the student with experience in planning and designing products they will construct, as they learn to use the tools, machines and techniques that are necessary to change these materials into usable products. Surface preparation and a variety of finishing methods are also studied. Student evaluation will be determined by unit tests, class participation and accuracy of project construction. **The prerequisite for this class is the successful completion of Intro. Industrial Technology with at least a "C".**

GRAPHIC COMMUNICATIONS

TECHNOLOGY I

GRADE 10-12

1.00 Credit

This course will provide the student with an opportunity to study the communication methods of screen-printing, photography and airbrush. The student will apply a number of technologies that include the use of cameras, films, photographic papers, darkroom applications and additional special photographic techniques. An introduction to computer generated graphics and selected special effect techniques will be included.

GRAPHIC COMMUNICATIONS
TECHNOLOGY II

GRADE 10-12

1.00 Credit

This course will involve the student in advanced methods of graphic representation. The technology involved in this course will give the student an opportunity to explore the different levels of digital photography and digital enhancement. Students will experience first hand the methods of digital reproduction and incorporate this technology into useful applications. Students will also use advanced technology that includes photo, adaptive, and specialty screen-printing. **The prerequisite for this class is Graphics Communications Technology I.**

ADVANCED WOODS

GRADE 11-12

1.00 Credit

This course will review and build upon the skills of machine woodworking and will focus on increasing the students ability on wood working equipment as it relates to wood technology. Particular emphasis will be placed on cabinet and furniture making including woodworking joints and plastics technology as used in the woodworking industry. Student's evaluation will be determined by class participation, utilization of time and materials, accuracy of project construction, and overall appearance. **The prerequisite for this class is the successful completion of Wood Working Technology with at least a "C."**

FAMILY AND CONSUMER SCIENCES DEPARTMENT

PARENTING

GRADE 10-12

1.00 Credit

Planning to be a caregiver one-day? This course is designed to take a close look at the responsibilities and demands of parenthood. Course content will include parent readiness, health & environmental concerns, financial considerations, prenatal development, the birth process, naming a child, evaluation and selection of various equipment, clothing and toys for children, nutritional needs, developmental stages of growth, discipline and punishment, parental roles, safety concerns, learning processes, play and pastime activities, **child** care, and many more concerns relating to successful parenthood--a career that may be a part of your future. Simulated parenting roles will be emphasized through the use of the Empathy Belly and the Ready-or-Not computerized babies.

HOUSING & INTERIORS

GRADE 9-12

1.00 Credit

This specialized course is designed to assist students in creating exterior & interior housing designs specific to their individual, as well as, environmental needs. The newest trends in housing will be looked at and decisions made regarding the selection of building supplies, furnishings, decorating and landscaping. Students will create projects using basic floor designs and design principles while incorporating furniture styles and arrangement, window treatments, floor and wall coverings, and accessories.

FOOD MANAGEMENT I

GRADE 9-12

1.00 Credit

This course is offered to all students interested in the study and preparation of foods and/or careers in the food service field. Exposure to various foods, cooking techniques and the foods industry will be explored. Areas of study will include basic nutrition, safe handling of foods, sanitation concerns, food preparation, presentation and serving of foods and budgetary concerns. This, and much more will be presented through discussion, demonstration, experiments, cooking labs, and outside resources.

CONCERT CHOIR

GRADE 9-12

1.00 Credit

The concert choir meets daily within the school schedule. Any students who enjoy singing are welcome to join with the understanding that they will meet course requirements. All members are required to attend all scheduled practices and concerts, both in school and away from school campus, held during the school year. Grading may be based on basic music theory tests, solo and ensemble singing, school attendance, and performance/rehearsal and class participation. Choral repertoire and activities may vary from season to season. Students wanting to participate in PMEA Choral Festivals must be an active member of the choir.

MUSIC APPRECIATION

GRADE 9-12

1.00 Credit

This course is open to all students who wish to expand their musical knowledge beyond just the element of performance. Students will study the written as well as the aural aspects of music along with a study of the history of music through the ages. This class is open to all students with a music instruction background i.e.: band, choir, or keyboard. Students not meeting this requirement must have permission, from the instructor, to enroll.

VOCAL and/or

INSTRUMENTAL LESSONS

GRADE 9-12

1.00 Credit

These lessons are for students who would like additional individualized instruction. Student must already be enrolled in Band and/or Chorus. Lessons will be everyday for the entire year during period 2.

ERIE COUNTY TECHNICAL SCHOOL
SECONDARY COURSE DESCRIPTIONS

The courses described are taught at the Erie County Technical School for students from the school districts of Erie County EXCEPT the School District of the City of Erie. All technologies are four credits each.

AUTO BODY REPAIR

GRADE 10-12

4 Credits

This course presents current and future practices in the rapidly changing world of auto body repair. Projects and class work use the latest technologies, equipment and shop practices. Prospective students should have good hand-eye coordination, manual dexterity, multi-limb coordination, mechanical aptitude, skill with tools, physical strength, accuracy and the ability to work with minimal supervision. Graduates of the program would be eligible for jobs such as: re-conditioner, spray painter, auto body customizer, body and fender apprentice, glass installer, auto body repairer, auto parts service clerk, metal finisher.

AUTOMOTIVE TECHNOLOGIES

GRADE 10-12

4 Credits

This program provides the student with the theory and practical experience needed to diagnose and repair automotive systems. Students work towards their state inspection requirements for a class one license and have the opportunity to earn ASE certification. Students are also able to get their PA Enhanced Emission Inspector Certification. 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. Some employment opportunities include: auto mechanic or small engine mechanic, parts supplier, front-end or tune-up mechanic, or state inspection mechanic.

CHILD CARE

GRADE 10-12

4 Credits

The Child Care program provides the student with the necessary skills for entry-level positions in the child care field, with an emphasis on the preschool environment. Prospective students should enjoy children and have a pleasant personality, even temperament, patience and good communication skills, particularly spelling and grammar. Some areas of employment include: preschool aide, childcare aid, or assistant group supervisor.

COMPUTER INFORMATION
SYSTEMS

GRADE 10-12

4 Credits

Students achieve entry-level skills in areas of computer programming, web page design, and Microsoft office computer applications. Combined with a background of knowledge, skills and appreciation of the data processing industry, each student is able to seek employment in the area of their interest. Prospective students should be able to think logically, have good speaking, reading and writing skills and pay attention to detail. Some areas of employment are computer consultant, web page designer, and computer programmer.

COMMERCIAL ART

GRADE 10-12

4 Credits

Commercial Art is a program designed to provide students with a basic knowledge, skills, and techniques necessary to be successful in the commercial art and graphic design fields. The course will provide instruction in the following: basic and advanced design, color theory and application, illustration techniques, layout typography, photography, airbrush, lettering and mechanical reproduction. Prospective students should possess the following characteristics: a demonstrated talent in drawing, solid verbal and written skills, a good sense of color, proportion and design, applied math skills, developed problem-solving skills, and fine motor skills. Some typical areas of employment include: television graphics and packaging, advertising and layout artists, technical illustrators, display artists, sign painters, fashion designers, printing and airbrush artists and web page designer.

CONSTRUCTION TRADESGRADE 10-124 Credits

This program prepares students to enter the building trades industry with marketable skills. This encompasses all phases of residential construction. The student will gain knowledge of: basic building materials, blueprint reading, brick and block laying, rough framing, door and window installation, drywall hanging and finishing, stair construction, roofing and siding, finish trim applications, and basic principals of wiring. Prospective students should have mechanical aptitude, coordination, stamina, physical strength, manual dexterity, mechanical dexterity and no fear of heights. Some areas of employment include carpenter's apprentice, block or bricklayer, or building supply sales.

COSMETOLOGYGRADE 10-124 Credits

Cosmetology is an art and a science involving the study of the skin, hair and nails. The Cosmetology program provides each student with the knowledge and skills required to become a licensed cosmetologist. The license requires 1250 hours of instruction. Prospective students should possess creative and artistic aptitude; enjoy working with people, physical stamina, flexibility, patience, and good attitude. Some employment options include: salon receptionist, hair stylist, manicurist, or esthetician.

CULINARY ARTSGRADE 10-124 Credits

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 principals and techniques necessary to obtain an entry-level position in the food service industry or prepare for continued training and education. 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 ability. Some areas of employment include: fast order cook, waiter/waitress, baker, cook or cake decorator.

DRAFTING AND DESIGNGRADE 10-124 Credits

Drafting careers are changing rapidly as computer technology replaces traditional procedures and functions. The Drafting & design course instructs students in industry standards and prepares students to step into the workplace or it gives them an important edge, if choosing to further their education in this field. Drafting, mechanical drafting and CAD involve making precise, instrument-aided drawings that show how to construct machines, buildings and infrastructures. Prospective students should possess the following characteristics: creative mind and good imagination, logical thinking, basic math skills, accuracy and artistic ability. Some areas of employment are architectural draftsperson, technical illustrator, electronic draftsperson, mechanical detailer, and CAD technician.

ELECTRICAL ENGINEERINGTECHNOLOGYGRADE 10-124 Credits

Students in this program learn the fundamentals of electrical skills and theory. The Electrical Engineering students acquire the skills for employment in all industrial electricity occupations. The students learn in detail the theory and hands-on application of alternating current, direct current, hydraulics, pneumatics, motor controls, programmable logic controllers and residential wiring. Prospective students should possess mechanical aptitude, ability in basic math and manual dexterity. Some areas of employment include: electrician's helper or apprentice, electrical production or maintenance worker, hydraulics or pneumatics technician or test specialist.

ELECTRONICS

GRADE 10-12

4 Credits

This program teaches the fundamentals of basic electricity, electronics and digital electronics. Basic theories of electronics, circuitry, communications, instrumentation and electronic automated techniques are part of this extensive curriculum. Prospective students should have a solid understanding of algebra, earth sciences, and physics. Students should also have good reading, writing and communication skills. Some areas of employment include: industrial repair technician, computer service technician, office machine repairer, and electronic equipment repairer.

FACILITY ENGINEERING

GRADE 10-12

4 Credits

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, hydraulics, welding, basic machining, motor control & HVAC. Prospective students should have physical stamina, mechanical aptitude, responsibility, manual dexterity, coordination and patience. Average to above average math and reading skills are required. Some employment opportunities include: electrician, plumber, maintenance mechanic, and assembler.

GRAPHIC COMMUNICATIONS

GRADE 10-12

4 Credits

The Graphic Communications program introduces students to theoretical aspects as well as hands-on experiences using computers, dark-room equipment and printing presses. Students acquire marketable skills in job planning, design and layout, copy preparation, proofing, platemaking, offset press operation, bindery and finishing. Prospective students should possess the following characteristics: creative mind, good typing skills, good background in English and spelling, strong mechanical skills, good attention to detail, organized and neat. Some areas of employment include graphic designer, offset press operator, and web design.

HEALTH ASSISTANT

GRADE 10-12

4 Credits

The Health Assistant program is ideal for students considering a career in the health and medical field. This program introduces student to various career opportunities that exist in health care. It prepares the student to enter the health care system as a competent assistant to the health care professional. Prospective students should possess good communication skills, neatness, cleanliness, manual dexterity, good professional appearance, the ability to maintain confidentiality and the ability to lift 50 pounds. Some areas of employment include: home health aide, medical receptionist, or personal care aide. Prospective students should possess good communication and interpersonal skills, neatness and cleanliness, manual dexterity, good professional appearance, the ability to maintain confidentiality and the ability to lift 50 pounds.

METAL FABRICATION

GRADE 10-12

4 Credits

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, SMAW (arc welding), acetylene cutting, Plasma cutting, GMAW (mig), GTAW (tig), and FCAW (Flux-core). Prospective students need manual dexterity, mechanical aptitude, physical stamina and basic math skills. Some areas of employment include: welder, structural steel worker, or production line worker.

PLASTICS

GRADE 10-12

4 Credits

Students in this program learn the fundamentals of plastic technology. Classroom and hand-on instruction prepare the student for the technician-level skills in plastics processing. This course covers the skills necessary for becoming injection molding machine operators, inspectors and mold set-up and processing personnel. Focus is on injection molding, machine safety, mold set-up and machine operation. The prospective student should possess mechanical aptitude, have completed algebra and geometry, have the ability to comprehend technical manuals, demonstrate effective communication skills, and be able to work independently.

TOOL & DIEGRADE 10-124 Credits

Students trained in this program develop the necessary skills to be entry-level machinists. They also have the opportunity to earn NIMS machining and metal working certifications. Prospective students should possess above-average math skills, good work attitudes, mechanical aptitude, eye-hand coordination and the patience to work neatly and accurately. The challenged and motivated student should consider this program as a basis for manufacturing and process knowledge for college engineering programs. Some employment areas include: machine operator, toolmaker apprentice, CNC operator, or machinist trainee.

SENIOR ONLY PROGRAMS

NETWORKING TECHNOLOGIESGRADE 124 Credits

This course teaches students to design, build, and maintain computer networks. The curriculum covers a broad range of topics from basic networking skills to more complex concepts such as applying troubleshooting tools. The program 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. Students who successfully complete the program are eligible to earn Cisco Certified Network Associate (CCNA) certification. Employment opportunities include network technician, help desk operator, or computer repair technician.

PLASTICS TECHNOLOGYGRADE 124 Credits

This course allows students to begin working towards an associate or bachelors degree in Plastics Technology. Classroom and hands-on instruction prepare the student for the technician-level skills in plastics processing. This course covers the skills necessary for becoming injection molding machine operators, inspectors and mold set-up and processing personnel. Focus is on injection molding, machine safety, mold set-up and machine operation. The prospective student should possess mechanical aptitude and enjoy hands-on work, have taken math and science courses, have the ability to comprehend technical manuals, demonstrate effective communication skills, be able to work independently, and have critical thinking and problem solving skills. Some possible employment opportunities are: mold set-up technicians, process engineers, quality assurance technicians, and press automation technicians.

TOURISM & HOSPITALITY
MANAGEMENTGRADE 124 Credits

Students in this course will learn about the structure of the lodging industry focusing on ownership, organization, and service strategies. 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. Prospective students should enjoy working with the public, have patience and good people skills. They should be willing to perform a variety of tasks and be able to work well under pressure. Good organizational skills are important, and the students should be self-starters, dependable and professional. Entry-level positions include: banquet server, room attendant, front desk agent, or housekeeper.

AIR FORCE JUNIOR ROTC COURSE DESCRIPTIONS/OBJECTIVES

Note: All AFJROTC classes are blends of material from an Aerospace Science (AS) component course, a Leadership Education (LE) course and the Wellness program. Core credit classes may emphasize the source course material 60% of contact time, with 40% devoted to the other component (AS or LE). Elective or non-core credit classes teach AS 40% of contact time, LE 40% and Wellness 20%. Waivers to any of the above must be obtained from AFOATS/CR (or AFOATS/JR for Wellness waivers).

AS-100: A Journey into Aviation History

This is the recommended first AS component for all new cadets. It is an aviation history course focusing on the development of flight throughout the centuries. It starts with ancient civilizations, then progresses through time to modern day. The emphasis is on civilian and military contributions to aviation; the development, modernization, and transformation of the Air Force; and a brief astronomical and space exploration history. It is interspersed with concise overviews of the principles of flight to include basic aeronautics, aircraft motion and control, flight power, and rockets. Throughout the course, there are readings, videos, hands-on activities, and in-text and student workbook exercises to guide in the reinforcement of the materials.

AS-200: Global and Cultural Studies

The preferred AS component for second-year students is a multidisciplinary course that introduces students to various regions of the world from a geographic, historical and cultural perspective. The course provides increased international awareness and insight into foreign affairs that permits a more educated understanding of other cultures and enhanced knowledge of America's interests and role in the world. Geopolitical issues such as terrorism, economics, politics, military issues, religion, environmental concerns, human rights, disease, over population, literacy, the migration of peoples and other cultural issues will be examined. The regional areas included in this course are Europe, the Middle East, South Asia, East Asia, Africa, and Latin America. The lessons include excellent videos to provide a window into life and issues within the regions, followed by a variety of hands-on activities created to engage the student. Readings are also available to set the stage for each lesson, along with workbook exercises suitable for in-class or homework assignments.

AS-210: The Science of Flight

An option for the second year student is a science course designed to acquaint the student with the aerospace environment, the human requirements of flight, principles of aircraft flight, and principles of navigation. The course begins with a discussion of the atmosphere and weather. After developing an understanding of the environment, how that environment affects flight is introduced. Discussions include the forces of lift, drag, thrust, and weight. Students also learn basic navigation including map reading, course plotting, and the effects of wind. The portion on the Human Requirements of Flight is a survey course on human physiology. Discussed here are the human circulatory system, the effects of acceleration and deceleration, and protective equipment. This course is a prerequisite for AS-500 Aviation Honors Ground School.

AS-300: The Exploration of Space

The recommended third year course is a science course, *Aerospace Science: The Exploration of Space*. The *Exploration of Space* examines Earth, the Moon and the planets, the latest advances in space technology, and continuing challenges of space and manned spaceflight. Issues that are critical to travel in the upper atmosphere such as orbits and trajectories, unmanned satellites, space probes, guidance and control systems are explained. The manned spaceflight section covers major milestones in the endeavor to land on the Moon, and to safely orbit humans and crafts in space for temporary and prolonged periods. It also covers the development of space stations, the Space Shuttle and its future, and international laws for the use of and travel in space.

AS-310: Explorations: An Introduction to Astronomy

Another AS option is *Explorations: An Introduction to Astronomy*, which explores the history of astronomy to include prehistoric astronomy, the early ideas of the heavens. The size and shape of the earth are discussed as well as the distance and size of the Sun and Moon. Other topics such as astronomy in the renaissance and Isaac Newton and the Birth of Astrophysics and the growth of astrophysics are discussed. We take focus on the Earth as a planet and the Earth's interior; the age of the Earth and Earth's magnetic atmosphere and magnetic field. The Moon is discussed in detail including its description, its structure, and its origin and history, as well as its eclipses and tides. An in-depth study of the Solar System, the terrestrial planets and the outer planets is covered as well.

AS-400: Management of the Cadet Corps

Upper class cadets manage the entire corps under AFJROTC instructor supervision. This course is an AS option and practicum for those cadets to provide hands-on experience for the opportunity to put the theories of previous leadership courses into practice. All the planning, organizing, coordinating, directing, controlling, and decision-making will be done by the cadets, under the supervision of AFJROTC instructors. They practice their communication, decision-making, personal-interaction, managerial, and organizational skills.

AS-410: Survival: Survive • Return

The *Survival* text is a synthesis of the basic survival information found in Air Force Regulation 64-4 *Survival Training*, and serves as another AS option. The survival instruction will provide training in skills, knowledge, and attitudes necessary to successfully perform fundamental tasks needed for survival. Survival also presents "good to know" information that would be useful in any situation. The information is just as useful to an individual lost hunting or stranded in a snowstorm.

AS-500: Aviation Honors Ground School Program

This course is an upper class AS option for qualified cadets, if the unit has been approved by AFOATS/CR to offer the course. The material covered is an advanced, more in-depth study of the previous aerospace topics. This course is for upper class honors cadets (junior or seniors) only, is the foundation for students interested in receiving a private pilot's license and serves as the AS component for cadets qualified and selected to take this course as part of their overall AFJROTC class. When the course is completed the students should be prepared to take and pass the Federal Aviation Administration (FAA) written examination. The *Private Pilot Manual* is the primary source for initial study and review. The text contains complete and concise explanations of the fundamental concepts and ideas that every private pilot needs to know. The subjects are organized in a logical manner to build upon previously introduced topics. Subjects are often expanded upon through the use of Discovery Insets, which are strategically placed throughout the chapters. Periodically, human factors principles are presented in Human Element Insets to help you understand how your mind and body function while you fly. Throughout the manual, concepts that directly relate to FAA test questions are highlighted by FAA Question Insets. Additionally, you can evaluate your understanding of material introduced in a particular section by completing the associated review questions.

LEADERSHIP EDUCATION

Leadership Education (LE) is an integral part of each year's instruction for AFJROTC cadets. Each year's activities are broken into Academic and Leadership components. In practice, however, the overlap is considerable. The development of writing and speaking skills are categorized as "Leadership Hours," yet when used to present subject matter related to what is being taught in the "academic" area, the results are twofold. Additionally, many after-school activities provide the proving ground for newly learned leadership skills. Activities such as drill teams, model rocketry clubs, and the formal cadet corps' operation all require offices with considerable responsibilities. To describe the leadership portion of the curriculum as being 288 hours (72 hours per year) is technically true, in practice it is highly understated.

LE-100: Citizenship, Character & Air Force Tradition

LE-100 introduces cadets to the Air Force Junior Reserve Officer Training Corps (AFJROTC), providing a basis for progression through the rest of the AFJROTC program while instilling elements of good citizenship. As such, it should be the first LE course taken by new cadets. It contains sections on cadet and Air Force organizational structure; uniform wear; customs, courtesies, and other military traditions; health and wellness; fitness; individual self-control; and citizenship. If this course cannot be taught first to new cadets, at least the first unit in the course and the first part of Unit Four should be taught before entering other LE instruction. **Note: Cadets will be required to wear a uniform once a week to complete the course requirements.**

LE- 200: Communication, Awareness, and Leadership

LE-200 hours stress communications skills and cadet corps activities. It is normally taught to second-year cadets, but may be taught to other grade levels also. Much information is provided on communicating effectively, understanding groups and teams, preparing for leadership, solving conflicts and problems, and personal development. Written reports and speeches compliment the academic materials. Cadet corps activities include holding positions of greater responsibility in the planning and execution of corps projects.

LE-300: Life Skills and Career Opportunities

This course will be helpful to students deciding which path to take after high school. Most units offer this LE component to upper class cadets, but units may teach it to lower grade level cadets. Information on how to apply for admission to college or to a vocational or technical school is included. Information on how to begin the job search is available to students who decide not to go to college or vocational school. Available also is information about financial planning and how to save, invest, and spend money wisely, as well as how not to get caught in the credit trap. Students are informed about real life issues such as understanding contracts, leases, wills, warranties, legal notices, and personal bills. Citizen responsibilities such as registering to vote, jury duty, and draft registration will be helpful to. For those students who may be moving into an apartment of their own, information is presented on apartment shopping and grocery shopping skills. There is information on how to prepare a résumé and the importance of good interviewing skills. If there are students who are interested in a career in the military, with the federal government, or an aerospace career, information is also provided for them.

Drill and Ceremonies

The Drill and Ceremonies course provides an in-depth introduction to drill and ceremonies. This is not a stand alone course, but it is to be taught as part of the Leadership Education 40% component for each Air Force Junior ROTC class. The Drill and Ceremonies course concentrates on the elements of military drill, and describes individual and group precision movements, procedures for saluting, drill, ceremonies, reviews, parades, and development of command voice. Students are provided detailed instruction on ceremonial performances and protocol for civilian and military events and have the opportunity to personally learn drill. Though each class will follow an established lesson plan, most of the work is to be hands-on.

Wellness Curriculum

Wellness is an official part of the Air Force Junior ROTC program. It is an exercise program focused upon individual base line improvements with the goal of achieving a national standard as calculated with age and gender. Wellness is instrumental in developing citizens of character dedicated to serving our nation and communities. The program is provided as a tool to help you develop individualized training programs for your cadets. Cadets will be given the opportunity to put into practice the wellness concepts that are taught in Leadership Education I. Instructors are free to include other activities cadets enjoy such as team sports in order to keep the Wellness Program fun and motivating. The Wellness Program is a 36-week program modifiable to meet individual goals. Personal improvement will be rewarded. The 36-week program is comprised of 19 exercises which can be conducted with minimal space and with minimal climate dependency (e.g. the 1-mile run). The exercises develop all muscle groups and provide sufficient anaerobic and aerobic intensity. They require no equipment and use only body weight and common objects (e.g. chairs).