

TABLE OF CONTENTS

Page 1	Introduction
Page 2	Graduations requirements
Page 3	Grading Scale
Page 3	Required Courses
Pages 4-9	Courses for High School students by grade level
Pages 10-11	Ag/Industrial art
Page 12	Art/Business
Page 13	Business
Pages 14-15	Home Economics
Pages 15-16	English
Pages 16-17	Foreign Language
Pages 17-18	Math
Page 18	Music
Page 19	Health
Page 19	Driver Education/Physical Education
Page 20-21	Science
Pages 22-23	Social Science
Page 24	Computers
Page 25	Honor Courses/College Dual Credit Courses
Page 26	Cooperative Vocational Education
Page 26	Self Contained Classes
Pages 27-28	Resource Classes
Pages 28-31	Vocational Educational Classes

INTRODUCTION

This scheduling, course description handbook has been designed to aid you and your parents in choosing courses to take, not only for the next year, but also throughout your high school career. In this manual, you will find:

1. Minimum requirements for graduation.
2. Course descriptions of all courses offered.
3. Plans for each year's courses you may wish to consider.

Be sure that you take this task seriously, and give thought to those courses that will best serve you as you consider your plans after graduation. Taking classes because your friends do may seem like a good idea now, but they will not be looking for the same type of job as you after graduation. Choose classes that will fit your plans and goals.

There is also the occupational assessment program available as follows:

LACC Tour – This is a tour of the vocational facilities at Pontiac High School and is given for all interested sophomores to give them a basis for choosing the LACC program.

Job Shadow Day – Interested Sophomores are given the opportunity to spend a day with someone in a career field that they are considering for themselves. Organized by LACC

ACT – SAT - The American College Test is part of the PSAE that the state requires all students to take their junior year. The ACT score is one of the criteria used to qualify them for entrance to college. Students should check to see what colleges require for entrance and take the proper tests. Some schools prefer the SAT (Scholastic Aptitude Test). The guidance counselor has information as to which schools require which test.

PLAN – Test given to all sophomores.

ASVAB- Test is given by the military. Juniors and seniors interested in the military may take this test. Arrangements are made with the military recruiter.

College Night at LACC and/or ICC - A large number of colleges send representatives to the College Night where students and their parents can talk to them and get specific questions answered.

College Visits - Any senior considering attending a college or technical school is encouraged to visit the school, attend classes, and see a counselor from that school.

GRADUATION REQUIREMENTS

The school year is divided into two semesters. A semester is approximately 18 weeks with nine-week grade reporting periods. Twenty-three (23) credits are required for graduation. One-half credit is earned for each semester of enrollment in a course when this course is completed with a passing grade. (D- or above.)

ACADEMIC AREA	FLANAGAN-CORNELL REQUIREMENTS	STATE REQUIREMENTS	UNIVERSITY REQUIREMENTS
ENGLISH	4 credits	4 credits	4 credits
MATHEMATICS	3 credits	3 credits	3 credits
SCIENCE	2 credit	2 credit	3 credits
SOCIAL SCIENCE	2.5 credits	2 credits	3 credits
CONSUMER ECONOMICS	.5 credit	.5 credit	
PHYSICAL EDUCATION *	2 credits	4 years	
HEALTH	.5 credit	.5 credit	
FINE ARTS/FOREIGN LANGUAGE** OR VOCATIONAL	2 credits		2 credits
DRIVER'S EDUCATION	***		
ELECTIVE COURSES	6.0 credits		
TOTAL GRADUATION CREDITS REQUIRED	23 credits		

* Juniors and seniors may exempt out of Physical Education (See Counselor for criteria).

** Some Universities require 2 credits of Foreign Language. U of I requires 3 credits.

*** Driver's Education will be provided for all students of Flanagan-Cornell District Unit 74 when they meet the age and academic requirements.

FLANAGAN-CORNELL GRADING SCALE

PERCENT	LETTER	POINTS
96-100	A	4.0
94-95	A-	3.67
93	B+	3.33
89-92	B	3.0
87-88	B-	2.67
86	C+	2.33
80-85	C	2.0
76-79	C-	1.67
75	D+	1.33
71-74	D	1.0
70	D-	.67
0-69	F	0

REQUIRED COURSES BY GRADE LEVEL

<u>FRESHMAN</u>	<u>SOPHOMORE</u>	<u>JUNIOR</u>	<u>SENIOR</u>
English	English	English	English
Math	Math	Math	Civics/Consumer Economics
Science	Science	U.S. History	
Intro. Computers	World History		
Health/Phy.Ed	Physical Ed. /Drivers Ed		

GRADE 9

<u>Department</u>	<u>Course</u>	<u>Credit</u>
<u>REQUIRED COURSES</u>		
English	English I, or English A (See note 1)	1.0
Science	Physical Science or Gen. Science (see note 2)	1.0
Mathematics	Practical Algebra, Alg. 1 (see note 3)	1.0
Vocational	Intro. To Computers	1.0
Physical Education/Health	P.E.	1.0
<u>ELECTIVES</u>		
Ag	Ag Science I	1.0
Art	Art I	1.0
Home Ec.	FACS 1	1.0
Foreign Language	Spanish I (See note 4)	1.0
Social Science	Geography	1.0
Music	Band	1.0
	Chorus	1.0

Grade 9 Explanatory Notes

1. The choice of English A or English I would depend on student ability, test scores and teacher recommendation.
2. The choice of physical science or general science would depend on student willingness, previous science grades, test scores, and teacher recommendation.
3. The choice of mathematics would depend on previous math grades, test scores, and teacher recommendation.
4. Some colleges require a foreign language for entrance. Check with the Guidance Counselor.

GRADE 10

Department	Course	Credit
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REQUIRED COURSES

English	English II	1.0
DriversEd./Phy.Ed.	Driver's Ed / P.E.	1.0
Science	Biology 1, Life Science	1.0
Mathematics	Plane Geometry, Alg. II or Geometry	1.0
Social Science	World History	1.0

ELECTIVES

Agriculture	Ag Science I	1.0
	Ag Science II	1.0
	Intro. to Woods	1.0
Art	Art I, II	1.0
Business	Computer Applications	1.0
Home Economics	FACS I	1.0
	FACS II	1.0
Foreign Language	Spanish I	1.0
	Spanish II	1.0
Music	Band	1.0
	Chorus	1.0
	Humanities	1.0
	Music Theory	1.0

Grade 10 Explanatory Notes

1. Sophomores will take driver's education (the nine-week classroom phase) then will take Physical Education.

GRADE 11

Department	Course	Credit
<u>REQUIRED COURSES</u>		
English	English 3, English 2	1.0
Social Studies	U.S. History	1.0
Mathematics	Consumer Math, Alg. 2	1.0
Physical Education	Physical Education	1.0
<u>ELECTIVES</u>		
Agriculture	Ag Supply & Service	1.0
	Intro to Woods	1.0
	Woods	0.5
	Auto Mechanics	0.5
Art	Art II, III	1.0
Business	Accounting I	1.0
	Advanced Computers	0.5
	Digital Media	0.5
	Introduction to Business	0.5
	Business Law	0.5
	Foreign Language	Spanish I
	Spanish II	1.0
	Spanish III	1.0
Home Economics	FACS II	1.0
	Parenting	0.5
	Adult Living	0.5
	Living Environments	0.5
	Food Preparation and Management	0.5
	Mathematics	Geometry
	Advanced Math	1.0
Computers	Computer Hardware	1.0
Music	Band	1.0
	Chorus	1.0
	Humanities	1.0
	Music Theory	1.0
Science	Biology II	1.0
	Physics	1.0
	Chemistry I	1.0
Social Studies	Psychology	0.5
	Sociology	0.5

Vocational Education (See note 1)		
Auto Technicians I, II		2.0
Child Care I, II		2.0
Commercial Arts I, II		2.0
Construction Trades I and II		2.0
Drafting I and II		2.0
Electricity/Electronics I, II		2.0
Graphic Arts I, II		2.0
Health Care Aid I		2.0
Law Enforcement I, II		2.0
Welding I and II		2.0

Grade 11 Explanatory Notes

1. For those students who plan to work right after high school or may go to a trade school, this series of courses, taken at Pontiac offers a wide range of vocational skills and experiences. It is open to juniors and seniors who apply and are accepted by the Livingston Area Vocational Center.

GRADE 12

<u>Department</u>	<u>Course</u>	<u>Credit</u>	
<u>REQUIRED COURSES</u>			
English	English 4 or English 3	1.0	
Social Studies	Consumer Economics /Civics	1.0	
Physical Education	P.E.	1.0	
<u>ELECTIVES</u>			
Agriculture	Agri Business Mgt.	1.0	
	Woods	0.5	
	Auto Mechanics	0.5	
Art	Art III, IV	1.0	
Business	Accounting I	1.0	
	Accounting II	1.0	
	Computer Applications	1.0	
	Advanced Computers	0.5	
	Digital Media	0.5	
	Intro to Business	0.5	
	Business Law	0.5	
	English	Composition	0.5
		British Literature	0.5
		Parenting	0.5
Home Economics	Adult Living	0.5	
	Living Environments	0.5	
	Food Preparation and Management	0.5	
	Advanced Math	1.0	
Mathematics	Calculus	1.0	
	Computer Hardware	1.0	
Computers	Band	1.0	
	Chorus	1.0	
	Humanities	1.0	
	Music Theory	1.0	
Science	Anatomy	1.0	
	Chemistry I	1.0	
	Chemistry II	1.0	
	Physics	1.0	
	Forensics	1.0	
Social Studies	Psychology	0.5	
	Sociology	0.5	

Foreign Language	Spanish II	1.0
	Spanish III	1.0
	Spanish IV	1.0

Grade 12 Explanatory Notes

1. See junior class listing of Pontiac Vocational School courses.
2. Work Study Program – must have approved job site and work periods 1, 2, 3 or 6, 7, 8

COURSE DESCRIPTION

AGRICULTURE/INDUSTRIAL ARTS DEPARTMENT

Teacher: Mr. Dan Faber

AG. SCIENCE I

1 YEAR 1.0 CREDIT

Ag Science I is a course primarily for freshmen and sophomores. It will give the students a basic understanding of the broad field of agriculture and expose students to vocational skills. Topics covered will include parliamentary procedure, welding, animal science, crop science, weights and measures, small engines, FFA orientation, public speaking, etc. Students may also be involved with test plot activities. This course is primarily an exploratory course in which skills will be covered in a brief, general manner with hands on experiences. Grading is based on tests, worksheets, reports, shop activities, and class participation.

AG. SCIENCE II

1 YEAR 1.0 CREDIT

Ag Science II is a basic agriculture related course; intended for sophomore and junior students, as a follow up to the Ag Science I course. Students will be introduced to land use, conservation, agriculture chemicals and the relationship of these concepts to crop fertilizers, chemicals and plant deficiency symptoms. Students will develop mechanical skills such as, Oxy-Acetylene welding, Arc welding, MIG welding and small engine operation and overhaul. Agricultural weights and measures will also be taught. Students will be involved with test plot activities and will help with the Crop Plot located on the school grounds.

PREREQUISITE: Ag. Science I or Teacher approval

AG. SUPPLY & SERVICE

1 YEAR 1.0 CREDIT

Ag Supply and Service is a course for students who wish to develop skills in an agriculturally related business. In this course, various agricultural skills are examined along with special business procedures. Topics covered in this course include; corn, soybeans, small grains, and forage production, along with electrical wiring, controls and motors. Business skills related to selecting an occupation, applying for a job and human relations in the workplace are also discussed. Students will be involved with test plot activities and will help with the Crop Plot located on the school grounds. This course is suggested for juniors and seniors in their third or fourth year of the agriculture program.

PREREQUISITE: Ag. Science I & II or Teacher approval

AG. BUSINESS MANAGEMENT

1 YEAR 1.0 CREDIT

Ag Business Management is for the agriculture student who is planning a career in an Ag related business including farming. The course incased units involving Ag economics, marketing, resource (land, labor, capital and management) appraisal and utilization, farm law and computers, crop production and livestock production. A unit on farm construction is also included in this course with the actual construction of a small building by the class members.

ART DEPARTMENT

Teacher **Ms. Sharon Corrigan**
1 YEAR **1.0 CREDIT**

ART I

Art I is designed for the beginning student in art. The course will focus on developing drawing skills through an introduction to a variety of media. The course will cover basic principles of design and the elements of art. Skills and knowledge learned in this course will prepare students who wish to enter the Commercial Art Program at L.A.V.C. Emphasis will be placed both on the quality of work and the understanding of art; i.e. vocabulary, art appreciation, and application.

ART II

1 YEAR **1.0 CREDIT**

Art II will emphasize creative growth through mastery techniques and experimentation. Considerable attention should be given to a specific dimension. In addition, this course will continue to develop art skills and related knowledge, which will be useful in the L.A.V.C. Commercial Art courses. This course will enable a student to put a serious in-depth technique to work.

PREREQUISITE: Art I

ART III & IV

1 YEAR **1.0 CREDIT**

Art III and Art IV will emphasize individual projects and techniques as assigned by the instructor. Advanced art enrollment will require permission of the instructor.

PREREQUISITE: Art II (approval of teacher)

BUSINESS DEPARTMENT

Teachers **Mrs. Connie Hassinger**
Ms. Betsy Mehlberg

INTRO TO COMPUTERS

1 YEAR **1.0 CREDIT (Required)**

Introduction to Computers is a course designed to develop basic skills in keyboarding technique. Major emphasis in the first semester is placed on keyboarding technique, especially keeping eyes on the copy, using correct fingers on the keys, and using the correct sitting position. During the course, students learn how to format documents such as personal and business letters, tables, and reports. An overview of Microsoft Office is also included. Production of copies that meet business and classroom standards is stressed with a major emphasis on proofreading, editing, and correcting errors. An Internet safety and computer ethics unit will be addressed in the second semester.

COMPUTER APPLICATIONS

1 YEAR. **1.0 CREDIT**

Computer Applications will provide the student with a background in the application areas of Microsoft Word, PowerPoint, and Excel. An introduction to web design will also be included second semester. At the completion of the semester, the student will be able to apply his/her acquired skills and knowledge for practical use at home, school, college, or work.

PREREQUISITE: Introduction to Computers

ADVANCED COMPUTERS**1 SEM.****0.5 CREDIT**

Advanced Computers is devoted to a follow-up course to Computer Applications. Advanced skills will be addressed for word processing, spreadsheets, and presentations. Microsoft Access and Microsoft Outlook will be introduced. Students will create projects using a combination of software application programs. For juniors and seniors only.

DIGITAL MEDIA**1 SEM.****0.5 CREDIT**

Digital Media is designed for students interested in web design, movie making, and picture editing. Students will learn how to design websites using several programs. Life-like simulations will be used to learn new skills for movie making and picture editing. Students will gain the knowledge and skills needed for success in digital media. For juniors and seniors only.

ACCOUNTING I**1 YEAR****1.0 CREDIT**

This course provides the student with the necessary skills and techniques to perform double-entry accounting for the entire accounting cycle of a sole proprietorship, a partnership, and a corporation.. Units about banking and checking accounts and preparing payroll and payroll taxes provide information for personal use as well as for business purposes.

ACCOUNTING II**1 YEAR****1.0 CREDIT**

This course develops and enhances the accounting knowledge and skills learned in Accounting I as well as provides the knowledge required for entry-level accounting positions and a foundation for further accounting study beyond high school. There is additional study of corporate accounting that includes an automated accounting business simulation. Units about departmental accounting, cost accounting, management accounting, and accounting control systems are also included in this course. Career opportunities in accounting are discussed. **PREREQUISITE:** Accounting I with a grade of B or better, teacher recommendation

INTRODUCTION TO BUSINESS**1 SEM.****0.5 CREDIT**

The major purpose of this course is to contribute to improved economic citizenship through a study of the business and economic environment in which we live. Areas of study will include business and financial affairs, and making wise consumer decisions. This course is for juniors and seniors.

BUSINESS LAW**1 SEM.****0.5 CREDIT**

This is an introduction to the laws that affect our daily lives. Topics include contracts, sales agreements, debts and bankruptcy, employment discrimination and injuries, and person and real property. This course is for juniors and seniors.

HOME ECONOMICS DEPARTMENT

FACS I	Teacher	Mrs. Deb McReynolds
FACS II	1 YEAR	1.0 CREDIT
	1 YEAR	1.0 CREDIT

This course will provide a survey for advanced topics in vocational home economics. It consists of units on personal relationships, self understanding and understanding others. An introduction to clothing selection and construction is included. Students will also be introduced to nutrition and meal planning, as well as simple food preparation including milk and egg cookery, microwave principles, quick breads, easy deserts, pies, and cakes. Students are encouraged to participate in F.C.C.L.A. activities. FACS II will include a unit on introduction to housing. This is a repeat course for students who did not take Home Ec I.

LIVING ENVIRONMENTS **1 SEM.** **0.5 CREDIT**

This course is composed of two parts. The first part deals with the type of housing available, evaluating houses for living, financial aspects, legal requirements, maintenance and remodeling. Part two covers principles of interior design, color, furniture styles, buying furniture, arranging furniture, buying appliances and equipment.

FOOD PREP. AND MANAGEMENT **1 SEM.** **0.5 CREDIT**

The foods' classes cover more advanced preparation of eggs, cheese, pies, cakes, breads, meats and dinners. Food selection and buying principles are practiced with students making the decisions. Attractive service of foods and meals is required. Food sanitation practices are required and stressed.

ADULT LIVING **1 SEM.** **0.5 CREDIT**

This is a one-semester course dealing with getting to know yourself, effects of heredity and environment, self-esteem and teenage development. This leads into family situations such as communication, coping with stress and teen-parent problems. Other topics include dating and life styles before marriage, preparation for marriage, marriage as a commitment, early adjustments in marriage, marital roles and problems created. In conclusion, family crises including, money, disasters, divorce and remarriage, death of a spouse or family member are presented for discussion. Budgeting, consumer choices, balancing homemaker vs. career or job responsibilities will be included.

PARENTING **1 SEM.** **0.5 CREDIT**

Students will learn to understand children and themselves better, by studying hereditary and environmental factors affecting child development. They will study prenatal, birth and postnatal factors, as well as the physical, emotional, social and intellectual development of a small child. Parenting becomes an important part of the course and emphasis is placed on positive issues involved as well as the changing roles of parents. Childcare facilities are discussed and evaluated.

SPANISH IV**1 YEAR 1.0 CREDIT**

Students in this course are expected to use the Spanish language to study the art, geography, people, history and literature of Spanish-speaking countries. Students will review all grammar tenses and focus on mastery of the subjunctive. The course will help prepare students for college level Spanish

MATHEMATICS DEPARTMENT**Teachers Mrs. Sue Schnell, Mrs. Kelli Stanley****Math Sequences**

Practical Algebra	Algebra 1
Plane Geometry	Geometry
Consumer Math	Algebra 2

PRACTICAL ALGEBRA**1 YEAR 1.0 CREDIT (Required)**

This course is designed to help students develop basic algebra skills. Real numbers and linear equations, factoring, fractions, graphing and some basic elements of geometry are stressed. Students will apply concepts and skills to real world situations.

CONSUMER MATH**1 YEAR 1.0 CREDIT (Required)**

This course is designed to help students use problem solving strategies to make practical calculations needed for everyday life. Students will apply their basic math skills in a variety of settings.

ALGEBRA I**1 YEAR 1.0 CREDIT (Required)**

Basic arithmetic is reviewed quickly and concepts of the real number system are introduced. The ability to translate from English to mathematical equations is developed and used in solving those equations. The practical applications of higher mathematics are emphasized.

PLANE GEOMETRY**1 YEAR 1.0 CREDIT (Required)**

Informal Geometry is the study of basic geometric figures and applications to real-life situations. Students will use a compass, ruler, and protractor to make basic geometric drawings.

GEOMETRY**1 YEAR 1.0 CREDIT (Required)**

Geometry is a study that begins with the development of geometric figures and assumptions. Logical thinking is fostered to use a series of statements called theorems to establish and prove additional ideas with proofs. Students will also use compass and ruler to make drawings illustrating particular ideas and theorems.

ALGEBRA II **1 YEAR** **1.0 CREDIT (Required)**
Basic algebra is reviewed. Topics of higher algebra are covered as well as trigonometry and simple calculus.

ADVANCED MATH **1 YEAR** **1.0 CREDIT**
This is an open-ended course in mathematics, which will allow students to explore many areas of advanced math. The core material of the course will include number relations and functions, trigonometry, circular functions, polar coordinates, sequences, limits, lines, planes, and an introduction to calculus. A TI-83 Plus or other graphing calculator is recommended.
Prerequisite: Algebra II with a C or better.

MUSIC DEPARTMENT

Teachers **Mr. David Young, Mr. Corey Beirne**

BAND **1 YEAR** **1.0 CREDIT**
Band class is open to any student who can play an instrument, or has instrumental experience. Students do not need to have been in band the previous year. Students without instrumental experience may take lessons with the instructor and join band. Out of this group is formed the jazz band and various smaller music ensembles. The band plays for football, most boys and girls basketball games, occasional other sporting events, and three concerts.

CHORUS **1 YEAR** **1.0 CREDIT**
Chorus gives the student experience in singing in larger groups, emphasizing correct vocal production, blending of vocal tone, correct intonation, and leading toward expressive and involved singing. The group will put on several performances and concerts through the year. Members of this group will also be chosen to prepare a major musical production and smaller ensembles such as the madrigal singers.

MUSIC THEORY **1 YEAR** **1.0 CREDIT**
Music Theory is open to any student regardless of musical background or experience. It is not necessary to be able to read music or play an instrument to take this class, however, depending on experience level of the student, more advanced topics can be covered to prepare students for studying music in college. The class will focus on the basic of how western music is put together, with an emphasis on notation, key signature, scales, harmony, and composition. Different applications of technology in music will also be learned and used to create custom compositions.

HUMANITIES **1 SEM.** **0.5 CREDIT**
Humanities cover many different topics within history, philosophy, music, film, and culture. It is an in depth study of what makes us human, and how humans have dealt with adversity, despair, triumph, and prosperity through the performing arts. The course is primarily a detailed analysis of rock music, jazz, and film and how it reflects social developments of the last 100 years. Students will listen to many examples of jazz and rock music, watch at least two films, and have many opportunities to offer their own insights as members of a unique and diverse culture.

HEALTH DEPARTMENT

Teachers: Mrs. Amanda Gordon

HEALTH

1 SEM. 0.5 CREDIT (Required)

Health education is required courses offered to freshmen. Health refers to being holistic which means overall well-being of your body, mind, feelings, and social aspects of daily life. This class will cover mental, social, nutrition, substance abuse, human development, abstinence, sexually transmitted diseases, wellness, and healthy choice

DRIVER'S EDUCATION

Teacher: Mr. Brian Yoder

DRIVER'S EDUCATION

9 WEEKS 0.250 CREDIT (Required)

This is a required course that is taken by sophomores who are assigned by age, to either first or second semester. Its main purpose is to allow students to acquire the skills necessary to become a competent driver and to pass the state licensing examination. The class involves classroom instruction as well as behind the wheel experience.

PHYSICAL EDUCATION DEPARTMENT

Teachers: Mr. Brian Yoder

BOYS PHYSICAL EDUCATION

1 YEAR 1.0 CREDIT (Required)

GIRLS PHYSICAL EDUCATION

1 YEAR 1.0 CREDIT (Required)

Physical education provides an opportunity for activity during the school day to promote the importance of exercise to good health. Activities include team sports, leisure time recreational sports, and conditioning. Sports in the first category would include soccer, speedway, field hockey, flag football, basketball, volleyball, and softball. Leisure sports would include swimming, badminton, tennis, and other paddle sports.

The student's grade is based heavily on participation and dress. Each student is required to wear a P.E. uniform designated by the instructor.

SCIENCE DEPARTMENT

Teachers: Mr. Ryan Hansen

GENERAL SCIENCE **1 YEAR** **1.0 CREDIT (Required)**

General science is a study of the topics related to natural science, earth science, and physical science. Students who enroll in general science are placed there upon teacher recommendation or personal choice. The class is less difficult than biology in certain respects. Vocabulary awareness is a major emphasis. Through lecture and reading assignments, applications of the topics are made into our everyday life. Students do some lab work.

PHYSICAL SCIENCE **1 YEAR** **1.0 CREDIT (Required)**

Physical Science is a laboratory-orientated class. The course will be split into two semesters: Chemistry related topics covered one semester, and Physics related topics covered in the other semester. This is an introductory class to Chemistry I and Physics. The chemistry concepts covered will lead students to a basic understanding of chemistry, and prepare them for Chemistry 1. The physics related topics would prepare students for Physics. This class is a prerequisite for Chemistry I and Physics.

APPLIED LIFE SCIENCE **1 YEAR** **1.0 CREDIT (Required)**

Applied life science is a one-year course that will explore various topics related to the biological sciences. Students will study subject areas that deal with the natural world such as cells, DNA, genetics, plants and animals. Course material will be taught through lecture, reading assignments, class work, and some laboratory activities.

CHEMISTRY I **1 YEAR** **1.0 CREDIT**

Chemistry is the study of matter, the material of which the universe and everything in it is composed. Chemistry is also concerned with how matter and energy interact.

The basic building blocks of matter (elements) are studied, as well as the general laws and principles that seem to govern their actions.

Laboratory activities are also a vital part of chemistry. We learn to use various pieces of equipment and how to use the metric system as we observe typical chemical transformations.

Preparation is also given for those students who wish to study chemistry at a higher level to pursue a career in chemistry or a related field. Prerequisite - Physical Science (C or better) and be in or have taken Algebra II.

PHYSICS **1 YEAR** **1.0 CREDIT**

Physics is the study of energy and its effects on matter. The course deals with mechanics (the study of things in motion) and with the other forms of energy such as heat, light, electricity, and nuclear energy. A sound knowledge of algebra is essential, as many of the relationships between matter and energy are mathematical. The class uses both lecture and laboratory experiences to gain a better understanding of our physical world. PREREQUISITE - C or better in Physical Science, have taken or currently in Advanced Math

BIOLOGY I**1 YEAR 1.0 CREDIT (Required)**

Biology I is a one-year course offered to gain knowledge concerning the study of life. In this course, we consider the universal basis of biology and gain a general understanding of the life processes.

The course content is composed of lecture, discussion and laboratory. Each method consists of studying the structure and function of organisms and their systems. These studies are basically divided by semesters. First semester will focus on the cellular level emphasizing the structure and function of cells and their metabolic processes. The second semester will focus on DNA, heredity, and the passing of genes from one generation to another. Basic classification of organisms may also be covered.

BIOLOGY II**1 YEAR 1.0 CREDIT**

Biology II is a continuation of topics studied in Biology I. Students will learn about metabolic pathways that drive both plant and animal functions. The remainder of the course will focus on human biology. Through lecture, readings, lab work, and dissections, the different systems of the body will be explored. Students will gain an understanding of the anatomy, basic physiology, and homeostasis involved with the systems of the body. As well, plant biology may be covered.

PREREQUISITE - completion of Biology I with a C or better.

ANATOMY**1 YEAR 1.0 CREDIT**

The ultimate purpose for taking this course is two fold: If you want to familiarize yourself with the functions of your body and if you want some advance preparation for taking career oriented course work in the health field. The course goes into more technical detail about body parts and functions than either biology or health classes. Building a vocabulary, microscope work and a cat dissection are the emphasis of this course. A considerable amount of class time is spent studying the systems of the human body through lab drawings, anatomy manuals, and making comparative analysis between the human and cat anatomy. Lectures, discussions, and personal input lend greater meaning to and application of information gained from the text.

PREREQUISITE - completion of Biology II with a C+ or better.

FORENSIC SCIENCE**1 YEAR 1.0 CREDIT**

This class includes techniques of investigation, procedural problems involved in crime scene investigation, the collection and presentation of evidence and preparation of cases. It will consist of mainly laboratory experiences: such as fingerprinting, blood spatter, forensic anthropology, DNA, and arson.

PREREQUISITE – completion with C+ or better of Algebra 1, Physical Science, and Biology 1

SOCIAL SCIENCE DEPARTMENT

Teacher **Mr. Eric Sliger**
Mrs. Bev Hart

GEOGRAPHY

1 YEAR 1.0 CREDIT

This course is an introduction to the major geographic regions of the world. The regions' lands, peoples and histories, traditional landscapes and ecologies, languages, religions, economies, and shared experiences are addressed in order to foster understandings of both what distinguishes these regions from each other and what processes have connected them through time. Each of these regions can be divided further into a number of sub-regions, or are partially situated in alternative regions; many of these will be discussed, too.

The course is also an introduction to geography. Therefore, in studying major global regions, important themes in academic geography will be covered. In particular, those factors associated with the origins, evolutions, and images of these regions will be addressed. Because regions are highly subject to societal, spatial, and temporal processes, understanding both the causes and courses of changes, appreciating continuities, and realizing the nature of such patterns are the ultimate goals; simple memorization of "objective" or "scientific" truths are not.

WORLD HISTORY

1 YEAR 1.0 CREDIT (Required)

This course should be seen as a survey (general) course that will provide students with the tools to understand the world around them and the one that is seen as being the "other." Different regions of the world will be studied, giving students a broad historical knowledge base. In addition, they will have a better understanding of other cultures and a comprehension of the "globalized" society in which they live.

In order for students to better understand "why" the world is the way it is, we will study contemporary events and attempt to reflect on causation and correlation by analyzing historical events that have preceded them. Throughout the course students will learn how to think "historically" about the events that we discuss. This process will be gradually learned and understood by students through historical research and oral presentations. In addition, students will have many opportunities to hone their cooperative working skills in group activities.

UNITED STATES HISTORY

1 YEAR 1.0 CREDIT (Required)

During this course we will discuss the historical events that have taken place in the territory that has for well over 200 years been known as the United States. We will begin with a brief analysis of the ancient civilizations, focusing on their histories, and contributions to later societies. The "discovery" of the Americas by Christopher Columbus will follow, along with the birth of our nation and its subsequent history. We will emphasize the sacrifices and contributions made by the many men and women who have come before us. In order for students to have a better historical understanding of the nation's history, we will look for connections between our local

history and those events that often times seem as though they did not impact Illinois. Throughout the course students will learn how to think “historically” about the events that we discuss. This process will be gradually learned and understood by students through historical research and oral presentations. In addition, students will have many opportunities to hone their cooperative working skills through group work activities.

PSYCHOLOGY

1 SEM. 0.5 CREDIT

This class studies the factors that influence mans behavior. Topics of thinking, reasoning, learning, personality development, mental illness, psychotherapists, and troubled personality are touched on. Students should expect to do one independent study of some student or group during the semester.

SOCIOLOGY

1 SEM. 0.5 CREDIT

Sociology is a semester course. This class studies the human society and social behaviors. The interaction of group members in a cultural or social environment is the focus of this course. Topics to include in the study are: value systems, personal development, work crime, poverty, minorities, politics, and religion. Students will be expected to share many current events, and research a personal-interest social issue.

CIVICS

1 SEM. 0.5 CREDIT (Required)

This course is intended to create a more informed citizenry. Throughout the course we will be analyzing the formation and philosophical foundations of the Declaration of Independence and U.S. Constitution. Supreme Court cases will be read and briefed to provide students with an historical understanding of how they have received the rights they are currently privileged to enjoy. By investigating this aspect of civil law and civil liberties students will gain an understanding about the relationship of law and the Constitution. Through writing case briefs and research assignments, critical analysis, historical thinking and analytical writing skills will be enhanced. Communication skills, including listening and public speaking, will be sharpened. In addition, students will have many opportunities to hone their cooperative working skills through group work activities.

Topics of discussion will include, but not be limited to: importance of local government, political parties, interest groups, Bill of Rights, incorporation of rights, and the federal government.

CONSUMER ECONOMICS

1 SEM. 0.5 CREDIT (Required)

A semester course for all seniors begins with the study of our economy and the consumer role in it. The effects of competition, prices, taxes, consumer decisions and business practices are covered. Subjects such as budgeting, savings, institutions, investments, credit plans and ways to obtain credit are investigated. A practice set about your checking account is included. It involves writing checks, making deposits, and reconciling a bank statement.

The effects of advertising, labeling, certification programs and their relationships to consumer choice making are explored.

COMPUTER DEPARTMENT

Teacher: Mr. Dean Lanckton

COMPUTER HARDWARE

1 YEAR 1.0 CREDIT

This is a “hands-on” class to learn the operation of personal computers and their networks. Lab work includes actual upgrading, construction, maintenance, and installation of computers for the school. The basics of wired and wireless networking will be studied. The latest trends in processors, peripherals, and operating systems will be explored. Students will analyze and evaluate compute equipment and write recommendations based upon specific requirements. Jr/Sr level course- prerequisite: Geometry, Computer Concepts I, II

JOURNALISM/YEARBOOK 1

1 YEAR 1.0 CREDIT

Teacher: Mrs. Kelli Embley

Students will complete computer programming of CS Indesign 2, learn Yeartech basics, learn photography, graphic art design, interviewing techniques, formal letter writing, scheduling, and experience other business and financial management through the ad-campaign and book sales. Students will produce pages of the yearbook; they will be responsible for the pictures, captions, storyline, and preparing them for submission. Furthermore, they will increase their writing skills, through creative writing assignments, newspaper/newsletter articles, captions and story writing and reporting. Prerequisite: Completion of English I with a B average or better

JOURNALISM II

1 YEAR 1.0 CREDIT

Students will be trained in desktop publishing through completion of CS Indesign 2, and mastery of the Yeartech program. They will be responsible for working with the rest of the staff to finance the production of the yearbook. It will be the student’s responsibility to help in creating a theme and cover design for the yearbook. Students will be responsible for developing a ladder, creating layouts, managing one department, and editing pages and preparing them for shipment. Journalism II will also be responsible for the production of the create mini-lessons to assist in the training of new staff members. They will gain knowledge in various writing techniques and graphic art and design. Through creative writing assignments, newspaper/newsletter articles, caption and story writing, students will increase their writing skills. They will take on a leadership role by maintaining a management position.

Prerequisite: Completion of English II and Journalism I with a B average or better

HONORS COURSES

AMERICAN STUDIES

1 YEAR 2.0 CREDITS

Teacher: Mrs. Bev Hart

American Studies is a course that integrates the study of U.S. History and American Literature. A chronological approach to history is combined with the study of relevant American literature in order to go beyond the facts of history to understand the human dimension. Back-to-back class periods allow for extensive use of technology and project-based learning.

PREREQUISITE: Plan test scores, class rank, and English 2 grades.

COLLEGE DUAL CREDIT COURSES

English IV (composition 1) Cooperate with Illinois Central Coll. **1 SEM 0.5 CREDIT**

See course description for English IV. Student will also receive 3-college credit

English Composition 2 **1 SEM. 0.5 CREDIT**

Psychology Cooperate with Heartland C.C. **1 SEM. 0.5 CREDIT**

See course description for psychology. Students will also receive 3 college credits

Sociology Cooperate with Heartland C.C. **1 SEM. 0.5 CREDIT**

See course description for sociology. Students will also receive 3 college credits

Economics **1 SEM. 0.5 CREDIT**

On line with Illinois Central College

Marketing **1 SEM. 0.5 CREDIT**

On line with Illinois Central College

Earth Science **1 SEM. 0.5 CREDIT**

On line with Illinois Central College

COOPERATIVE VOCATIONAL EDUCATION

Work Study Program

1 YEAR 2.0 CREDITS

Teacher: Mr. Dan Faber

Eligibility: Students must be of senior status and be on track to graduate with their class. They must also have secured a placement site and have identified a supervisor, the name of whom should be submitted to the teacher of the class at least 2 weeks prior to the beginning of the semester. The placement site must provide for a minimum of 15 hours of work per week, of which there should be at least two hours during school time each day. The student must also have a means of getting to and from the placement without reliance on the school or other students.

Course Description: This program is designed for students to learn about a specific occupation and/or develop occupational skills, through an actual hands-on, supervised experience. Students will develop a training plan with the assistance of the site supervisor and the course teacher. The student will be expected to follow proper employment practices such as timeliness and taking directions. Students will keep a record book, which will include: the employment agreement, training plan, financial statement, a daily log of experiences, hours worked, wages earned, and expenses incurred.

SELF CONTAINED COURSES

TEACHER Mrs. Mary Kane

LIFE SKILLS MATH

1 YEAR 1 CREDIT

This course is designed to familiarize students with skills needed to perform in their everyday lives. It also allows students to apply those concepts to a community-based setting. Topics covered include checkbooking, making and receiving change and budgeting.

LIFE SKILLS ENGLISH

1 YEAR 1 CREDIT

This course is designed to familiarize students with skills needed to perform in their everyday lives. It also allows students to apply those concepts to a community-based setting. Topics covered include letter writing, resume writing and filling out job applications.

CAREER EDUCATION

1 YEAR 2 CREDITS

This course is designed to familiarize students with skills needed to perform in their everyday lives on the job. It also allows students to apply those concepts to a community-based job setting. Topics covered include interviewing, appropriate dress and hygiene for the job setting, keeping a job, figuring time cards and dealing with conflict in the workplace. **Note:** Students are required to work 10 hours per week at a job site arranged by the Vocational Coordinator while taking this class.

WORLD STUDIES

1 YEAR

1 CREDIT

World History - Study of a Country's physical, economical and social structure.

RESOURCE COURSES

Teacher: Mr. Mike Kaufman

English Grammar

1 year

1 credit

English Grammar is designed to meet the needs of secondary students and adults who read well below grade level. Grammar and usage are integrated in each lesson to facilitate understanding of rules and their practical application to the patterns of written and spoken English. Students practice and apply each language skill in a variety of ways, taking the students from identification and classification through application and evaluation. These skills are essential if students are to apply grammar and usage to everyday writing.

Life Skills English

1 year

1 credit

Life Skills English teaches students how to seek and evaluate information. Students learn how to find information, how information is organized, and how to use reference tools to locate information. Students learn how to develop and use skills that they can apply to other subjects and everyday life. Sentence structure and vocabulary are controlled throughout the text. This allows students to concentrate on content mastery. Chapter openers, examples, and exercises focus of relevant and practical applications. For example, students are taught how to read a food label, read the yellow pages, follow recipe directions, and read the want ads.

English Composition

1 year

1 credit

Basic English Composition is designed to help secondary students and adults develop practical writing skills. Throughout the text, comprehension is enhanced through the use of simple sentence structure and low-level vocabulary. To add motivational interest, the instruction and activities revolve around a group of high school students experiencing a typical school year.

United States Government (Civics)

1 semester

½ credit

United States Government is a textbook written for high school and adult learners reading significantly below grade level. The content follows the goals and objectives outlined in most government curriculums. Federal, state, and local governments are carefully presented along with the history of political parties and the voting process in the United States. A chapter is devoted to the roles and responsibilities of American citizenship. The final chapter of the book provides a global view of comparative government.

United States History**1 year****1 credit**

United States History is a textbook for high school and adult learners reading below grade level. The content follows the National Standards for History and meets the goals and objectives in most state and local curriculums. In this class, vocabulary words are introduced in a special box on the page where they first appear. Additionally words appear in boldface the first time they appear in text and are usually defined in context. The class uses illustrations, photos, maps, timeline, charts, and graphs to enhance the learning process by helping students visualize information.

Resource Study Hall**1 year****½ credit**

A study period supervised by special education staff. Students work on assigned classroom work as well as develop enhanced study skills.

VOCATIONAL EDUCATION

Students who are not necessarily considering further schooling beyond high school should arrange their schedule to be sure they fulfill all their requirements for graduation. They are then encouraged to use the Livingston Area Vocational Center for valuable training in career areas that will make them much more employable directly out of high school. These courses are offered to juniors and seniors and involve spending 3 periods of their school day at LAVC in Pontiac.

In order to be eligible for LAVC, you must have enough credits (11.5) to be a junior by the end of your sophomore year. A student must also have passed his/her required courses the freshman and sophomore years. (English, Math, Science, Keyboarding, World History)

AUTO TECHNICIANS I & II**2 YEARS****4.0 CREDIT**

Vocational auto is two-year program designed to train students to enter the automotive repair field. Students may enter the program at the beginning of any semester. Students study the theory of the automobile one day a week in the classroom with the remainder of the week devoted to "hands on" repairs. Lab time is devoted to systematically diagnosing problems on the automobile and then making repairs. This approach helps develop automotive technicians rather than parts changers. The intent of the program is twofold: to provide entry-level skills for employment and to provide helpful training to further one's education in the field.

CHILD CARE I & II**2 YEARS****4.0 CREDIT**

This course offers students the opportunity in planning preschool instruction, teaching and caring for three and four-year-old children in a cooperative regional child care program. This combined work/classroom instruction lab helps high school students explore childcare occupations and prepare them for employment. The course includes field trips to childcare centers, films and guest speakers to enrich students understanding of this field. This course will focus on teaching methods, child growth and development, effective child care, children's attitudes towards play and school, learning activities for tots, nutrition, legal responsibilities, communications with parents, child care occupations, licensing requirements, job interviews, and business relationships.

COMMERCIAL ART I & II**2 YEARS 4.0 CREDIT**

This course is designed to give the student a basic knowledge of the commercial art field and to provide them with the skills necessary for conceiving and creating artwork for use in the advertising industry and other visual arts careers. Instruction is geared to a wide variety of learning experiences including basic drawing skills, composition, design concepts, and processes in art production. Students will work with such art media as pencil, conte crayon, inks, various types of paint, and color media. Units also include work in screen printing, calligraphy and lettering, sign making, airbrush, black and white photography, and computer generated design work with IBM compatible computers. Students will do layout and paste-up for materials that will actually be printed. The second-year students work in depth in some of the various areas, increasing their skills and abilities.

CONSTRUCTION TRADES I & II**2 YEARS 4.0 CREDIT**

Building Trades I is designed to give the beginning, interested student an opportunity to develop knowledge and skills with regard to the basic hand and power tools, materials, processes, safety and other related items as associated with the construction industry. The student will be expected to develop good habits in the areas of work ethic, cooperation, attendance, attitude, leadership, and reliability.

Building Trades II students will be considered experienced and will be expected to advance their skills and knowledge to an employable level. More responsibility will be placed upon these students and they will be given the opportunity to develop leadership traits to their maximum as foremen or crew leaders. Students in both courses will have experiences in building a house including: concrete work, masonry, rough and finish carpentry, drywall application and finishing, painting and decorating, and landscaping. Related instruction will be given in site selection and development, building codes and ordinances, blueprint reading, measurement and related math, trade terminology, materials application, occupational information, and safety.

ENGINEERING & ARCHITECTURAL DESIGN 2 YEARS 4.0 CREDIT

This course is designed to give the student a well-rounded knowledge of the technical drawing field. The first semester is devoted to fundamentals dealing with the development of techniques, construction, and visualization. The second semester deals with the expansion of the first semester into the different drafting conventions. The second year of the course deals with specialization in either mechanical drawing and design or architectural design depending upon the student's interest.

Students are encouraged to develop techniques, accuracy, speed, and problem-solving abilities. Students will be given basic instruction in Computer-Aided-Drafting on IBM Computers using AUTOCAD software program.

ELECTRICITY/ELECTRONICS I & II**2 YEARS 4.0 CREDIT**

This program is designed to prepare individuals for the ever-growing electronic industry. The course concentrates on the development of the student through three avenues.

1. Theory--Through readings, lecture, and discussion, the student will build a strong theoretical background. Solving problems and designing circuits are part of daily activity.
2. Experimentation--Each new theory is accompanied by experiments. The student will build working circuits, conduct tests on them, note characteristics of the circuit, and possibly make change sin the circuit to see how the theory holds up.
3. Repair--Each student will learn how to use the tools of the trade. Students will use the knowledge gained from both theory and experimentation to troubleshoot, locate, and repair malfunctioning electrical equipment. The center accepts almost any electronic equipment for repair thus providing many opportunities for students to put theory into practice.

GRAPHIC ARTS**2 YEARS 4.0 CREDIT**

Students receive instruction in printing fundamentals related to the operation and maintenance of letterpress, offset presses, a process camera, and other photographic equipment. Students gain experience in copy layout, hot and cold type composition, paste-up, stripping, and plate making procedures. Each student has an opportunity to work with screen-printing and black and white film processing and printmaking. Each student has an opportunity to work with screen-printing and black and white film processing and printmaking. Related information and instruction is given concerning papers, inks, and other printing materials. Students relate their classroom activities to the graphic arts industry through field trips to various printing industries in the area. Actual experience in the preparation and printing of 'live work' provides the student with simulated production necessary to secure experience for entry into the field.

HEALTH CARE AID I**2 YEARS 4.0 CREDIT**

This course provides learning experiences designed for the student who is interested in the para-medical field. Classroom instruction, related laboratory experiences, and procedures for patient care are included. This is supplemented with experience gained through extended off-campus observation and actual job performance at St. James Hospital, nursing homes, doctor and dental offices, as well as other medical businesses. Upon completing the course, the student will have a realistic understanding of the health field and qualify for entry level employment as any kind of para-medical aid or additional training in the chosen occupational area. Students who successfully complete certain course requirements will be certified by the Illinois Department of Public Health to gain employment as a nurse aide in any nursing home in the state of Illinois.

LAW ENFORCEMENT I, II**2 YEARS 4.0 CREDIT**

This is an introductory course preparing students to enter the field of law and law enforcement. Students will be introduced to patrolling techniques, field operations, observations and perceptions, communicating with the public, radio communications, reporting and records. Instruction will also include questioning procedures, legal rights, routine police procedures, crime investigation, pursuit, and arrest. Students will study search and custody procedures as well as police security services. Classroom instruction will include simulations, demonstrations, tours and local shadowing.

WELDING I & II**2 YEARS 4.0 CREDIT**

Welding is a 2-year program though some students take just one year. The program is designed to provide the student with the knowledge and skills of both the procedures and techniques associated with welding. Upon successful completion of this program, the student will be able to demonstrate those necessary skills both cognitive and manipulative so that they may obtain entry-level employment in this field.

The first year program is aimed at introducing the basic skills and techniques required working safely and efficiently with the various tools associated with welding. The types of welding introduced are OAW, SMAW, and GMAW. In addition to welding the student writes, programs, and operates a Robotic arm through a series of laboratory exercises. The second year of this program is aimed at a more intense study and practice of the techniques learned from the first year. New procedures and processes such as GTAW, Cast Iron, and Plasma Arc Cutting are also introduced. The lab related work is aimed at learning and mastering the various skills required in welding. Field trips and lectures will be utilized to provide experiences related to working conditions and opportunities in this field.