

Course Description Guide



2015 - 2016

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Introduction

Students are encouraged to seek the assistance of the counseling staff at Alton High School as well as parents and teachers in planning a high school program appropriate to their needs and abilities. For some students high school will be the last exposure to formal education. For others it will be a broadening of skills and knowledge leading to more specialized and advanced education.

Students should ask the following questions:

1. What courses must I take to meet the requirements for graduation from Alton High School?
2. What courses shall I take in order to meet admission requirements from the technical school, college, or university which I expect to attend later?
3. What courses will best fit my abilities, needs, and interests?
4. What courses will best prepare me to meet my responsibilities in the home, community, and world of work?

The counseling staff can provide students valuable information and assistance in evaluating each of the above questions and making informed decisions.

This Course Description Guide contains descriptions of all courses offered at Alton High School. It clarifies graduation requirements and provides helpful information in planning for your entrance to college or the work force. Please read all information carefully and allow it to guide your course selection decisions.

Schedule Changes

The high school builds its master schedule based on the student class requests; the master schedule is then used to determine staffing needs for the school year. **Only schedules that require correction due to inaccurate information or a verified schedule conflict will be changed.** For additional information, please refer to the Academic Advisement Policy located in the Student Agenda Handbook.

Website Information

For further information regarding scholarships, college planning, and information please, visit our Guidance Website at:

<http://altonschools.org>

Academic Advisement Policy

Below are some guidelines that are used in advising students on maximum and minimum academic loads and changes in course status:

The high school builds its master schedule based on student request; the master schedule is then used to determine staffing needs and the number of course sections for the entire school year. Only schedules that require correction due to inaccurate information or a verified schedule conflict will be changed.

- 1. Maximum Load-** students will not be scheduled into a course which allows them to earn more than three credits in any one semester. The student and parent must complete the request for the credit form for approval to earn more than three credits per any one semester. This form may be obtained in the guidance office.
- 2. Auditing a sixth course-** students who request to have a course changed from credit to audit status must be carrying at least six academic credit hours and additionally must have teacher, principal, and parent consent. To be considered for an audit of a sixth course, a student must make the initial request before the end of the first quarter. **An administrator will review the student's information and effort over the course of the semester and then determine if the student requesting an audit will be awarded.** If the course is changed from credit to audit during the first semester, students have the following options at the end of the first semester: (1) continue to audit second semester (2) change to another course if available (3) change to a study hall or have no class if appropriate.

Audit - To attend a class without asking or receiving academic credit - Students approved for audit status who remain in the class must continue to attend class regularly, do required homework, take tests, and display proper classroom behavior. Failure to abide by these requirements will result in the audit status being revoked and the student will return to credit status and receive the grade earned.

3. Changing levels in the same subject area - During the first two weeks of a new semester, counselors, teacher, students, parents, and division chairs can recommend and cooperatively change levels of a course.

4. Changing from one instructor to another instructor of the same course - generally, requests from students or parents to change instructors will not be honored.

5. Schedules changes – Counselors are not permitted to make schedule changes unless it is necessary due to graduation requirements. If a student has a workable schedule and has the course that he/she selected, no changes can be made.

Graduation Requirements

Below are some administrative guidelines pertaining to student academic load and graduation requirements:

1. All students must be enrolled in a minimum of five (5) academic hours. Study Halls and Student Assistant Hours are not considered academic hours.
2. All students must pass 9 semesters of English. This includes 2 semesters of English 1, 2 semesters of English 2, 2 semesters of English 3, and one semester of Communicating. The fourth year of English includes one semester from the English Department and the other may come from the English Department or the Speech and Theater Department. For those who wish to enter the vocational field, College and Technical Writing 3 and 4 is appropriate.
3. JROTC is an elective credit in science; however, it cannot be used to fulfill the required science for graduation. One year of JROTC will waive one semester of required Physical Development.
4. A maximum of two Physical Development credits may be counted toward the 22 units required for graduation. One and a half Physical Development credits are required for graduation.
5. Summer School classes are implemented pending sufficient enrollment; however, the following courses are generally offered every year:

<u>Course</u>	<u>Grade Level</u>
American Government	11, 12
Auto Safety	9, 10, 11, 12
Consumer Education	11, 12
Health	10, 11, 12
Physical Development	9, 10, 11, 12
Communicating	10, 11, 12

6. Some courses taught at AHS have dual credit at LCCC or SLU. Students will not receive credit for the same LCCC course more than once.

Graduation Requirements

22 Total Credits needed for graduation:

<u>Course</u>	<u>Minimum</u>	<u>College Prep</u>
English 1	1	1
English 2	1	1
English 3	1	1
Communicating	$\frac{1}{2}$	$\frac{1}{2}$
English Elective	$\frac{1}{2}$	$\frac{1}{2}$
Speech, Theater, or English Elective	$\frac{1}{2}$	$\frac{1}{2}$
Auto Safety	$\frac{1}{4}$	-----
Consumer Education	$\frac{1}{2}$	-----
Health	$\frac{1}{2}$	$\frac{1}{2}$
Physical Development	1 $\frac{1}{2}$	1 $\frac{1}{2}$
Math	3	3-4
Science	2	3
Social Studies Elective	$\frac{1}{2}$	1 $\frac{1}{2}$
U.S. History A	$\frac{1}{2}$	$\frac{1}{2}$
U.S. History B	$\frac{1}{2}$	$\frac{1}{2}$
American Government	$\frac{1}{2}$	$\frac{1}{2}$
Music, Art, Foreign Language, or Career & Tech. Education	1	2-4

College Entrance Information

Students who intend to enter college should check the requirements for admission to the institution in which they are interested. Many colleges are currently revising their admission requirements to include additional specific courses. Therefore, a solid background of courses in the academic areas is important. Strength of preparation in English, Math, Science, Social Studies, and language has great significance, not only for securing admission, but also for attaining success in college work.

Students who will enter four-year state universities in Illinois will usually be required to have completed the following credits:

English	4
Math	3 (Starting with Algebra 1)
Laboratory Science	3
Social Studies	3
Foreign Language	
Art, Music, or Career & Tech. Education	2

Southern Illinois University at Edwardsville is unique in that if students do not meet the above requirements, but do meet the high school rank and ACT requirements; they will be admitted but will be considered deficient until the above requirements are met. Students who plan to participate in sports at NCAA Division I or Division 2 colleges should check with their counselor for specific course, GPA, and test requirements. Although foreign language is not required for admission by all colleges, many of the competitive colleges strongly recommend or require a two-to four year sequence in one language. (The University of Illinois requires a minimum of two years of one language for admission to most of its programs). All four-year colleges will require a standardized test score (ACT or SAT) for entrance purposes. This testing process ideally starts junior year. The important test dates are listed below for the 2015-2016 school year.

These tests will be given at on the following dates:

ACT: September 12, 2015
October 24, 2015
December 12, 2015
February 6, 2016
April 9, 2016

SAT: TBD

The PSAT is not required for college entrance but is required for entrance into some scholarship competitions. It is open to sophomores and juniors. Junior scores count towards National Merit Scholarships.

PSAT: TBD

Only one test is required for college entrance. Most colleges will take either the ACT or the SAT. The ACT test seems to be the best choice in our area.

The PLAN Test is given to sophomores. It is not a required test for college entrance or scholarship competition. It is a practice ACT Test.

Financial aid will be a big part of the college search process. Seniors are encouraged to check the AHS web site www.altonschools.org. Click on schools, Alton High, then the guidance tab on the left menu. Alton

High School students may also do an individual computer search for scholarships on various internet sites, also located on our website.

Testing Information

EXPLORE

Designed for use in 9th grade, the EXPLORE evaluates students' progress in English, Mathematics, Reading, and Science.

PLAN

Designed for use in 10th grade, the PLAN evaluates students' progress in English, Mathematics, Reading, and Science. It provides career guidance utilizing the UNICAT Interest Inventory, the World of Work Map, and self-assessment of academic needs. The PLAN is a reliable predictor of performance on the ACT.

PSAT

The PSAT is a practice SAT test and is used as a qualifier for National Merit Scholarship.

Work Keys

Work Keys is a job skills assessment system measuring "real-world" skills that employers believe are critical to job success. This test measures abilities in these areas: Communication, Problem Solving, and Interpersonal Skills.

ACT

The ACT collects and reports a wide range of information on students' academic achievement, interests, and educational goals. The ACT includes tests of English, Mathematics, Reading and Science that measure the skills needed for success in college. An optional Writing test was added in 2005 and is administered on all national test dates. The ACT also provides results of the NIIACT Interest Inventory to assist students in a broad range of careers and college majors appropriate to their interests. There is a cost for Saturday testing. Please visit www.act.org for additional information and to sign up for the test.

SAT

The SAT is a 3 hour 45 minute test that measures critical reading, mathematical, reasoning, and writing skills that students have developed over time and that they need to be successful in college. It includes writing, critical reading, and mathematics. The SAT subject tests are approximately one hour, consisting of primarily multiple-choice tests that measure knowledge of a particular academic subject and how questions apply that knowledge.

The difference between the ACT and SAT

These tests have different measures of abilities. The SAT is a test of reasoning skills that covers only Critical Reading, Mathematics, and Writing. The ACT is an achievement test that measures what you have learned in English, Mathematics, Reading, and Science.

The SAT includes a mandatory writing test. The ACT writing test is optional (check entrance requirements of your college choices). There is an additional fee for the writing portion of the ACT.

ASVAB

The Armed Services Vocational Aptitude Battery is a multi-aptitude test battery. It consists of eight short individual tests covering general science, arithmetic reasoning, work knowledge, paragraph comprehension, mathematics knowledge, electronics information, auto and shop information, and mechanical

comprehension. It is a career decision-making tool. The scores can qualify students for certain jobs and training in the Armed Forces.

College Bound Information

On the next page are three recommended subject patterns for college bound students based on the competitiveness of different colleges. The subject patterns under the most competitive colleges represent courses and sequences which are difficult and demanding. Students who aspire to attend a college in this category should plan to enroll in courses very similar to those outlined.

The subject patterns under competitive colleges represent a more typical college-prep program. Students should strive to complete most of the courses listed in order to be admitted and to achieve success in their college work.

The subject patterns under less competitive colleges represent a minimum preparation for college admission and success in college. Students who follow this sequence of courses will be admitted to colleges with minimal admission requirements.

Recommended Patterns for College Bound Students

Grade	Most Competitive	Competitive	Less Competitive
9	<ul style="list-style-type: none"> • CP English 1 H • Geometry H • Biology H • Social Studies Elective • Foreign Language 1 • PE • C.T.E. Elective 	<ul style="list-style-type: none"> • CP English 1 • Algebra 1 • Biology 1 • Foreign Language 1 • Social Studies Elective • PE • C.T.E. Elective 	<ul style="list-style-type: none"> • CP English 1 • AC 1 • Biology 1 • Foreign Language 1 or Fine Arts • Social Studies Elective • PE • C.T.E. Elective
10	<ul style="list-style-type: none"> • CP English 2 H • Communicating • Algebra 2 H • Chemistry 1 H • Foreign Language 2 • Auto Safety • Health • Social Studies Elective • PE • C.T.E. Elective 	<ul style="list-style-type: none"> • CP English 2 • Communicating • Geometry • Chemistry 1 • Foreign Language 2 • Auto Safety • Health • Social Studies Elective • PE • C.T.E. Elective 	<ul style="list-style-type: none"> • CP English 2 • Communicating • AC 2 • IPS A & IPS B • Auto Safety • Health • Social Studies Elective • PE • C.T.E. Elective
11	<ul style="list-style-type: none"> • CP English 3 H • Pre-Calculus H • Consumer Ed • Physics 1 H • Foreign Language 3 • US History H • PE • Elective • C.T.E. Elective 	<ul style="list-style-type: none"> • CP English 3 • Algebra 2, Algebra 3 or AC3 • Science Elective • Consumer Ed • Foreign Language 3 • US History A & B • PE • Fine Arts Elective • C.T.E. Elective 	<ul style="list-style-type: none"> • CP English 3 or CT Writing 3 • Geometry • Science Elective • C.T.E. or Fine Arts Elective • Consumer Ed • US History A & B • PE
12	<ul style="list-style-type: none"> • CP English 4 H • CP English 4 Lit H • Calculus AB & BC H • Science H Elective • Foreign Language 4 H • American Govt. H • Social Studies H Elective • C.T.E. Elective 	<ul style="list-style-type: none"> • CP English 4 • English Elective • Pre-Calculus H • Science H Elective • Foreign Language 4 • American Govt. • Social Studies Elective • C.T.E. Elective 	<ul style="list-style-type: none"> • CT Writing 4 • English Elective • Algebra 2 • C.T.E. or other Elective(s) • American Govt. • Social Studies Elective

*Dependent upon career path and summer school options.

A.H.S. NCAA Approved Courses

The NCAA “Initial Eligibility Clearinghouse” is the organization that determines a student’s status or initial eligibility for NCAA athletic scholarships. High school students who wish to be considered for NCAA (National Collegiate Athletic Association) full or partial athletic scholarships now must meet very specific courses, GPA, and ACT/SAT test score requirements. If these requirements are not satisfied, the student will not be eligible to compete for NCAA Division I or II scholarships.

Students must complete 16 core courses that include 4 years of English; 3 years of mathematics (Algebra I and higher); 2 years of science (1 must be a lab); 2 years of social studies; 1 additional year of English, science or mathematics; 4 years of additional courses. Class of 2015: D1 – GPA is 2.30 and 10 core courses by the end of the junior year. See website, www.eligibilitycenter.org for additional information.

APPROVED COURSES

English

College Prep English 1
College Prep English 1 H
College Prep English 2
College Prep English 2 H
College Prep English 3
College Prep English 3 H
College Prep English 4
College Prep English 4 H
College Prep English 4 Lit H

Communicating
Creative Writing
Journalism 1
Popular Literature
Public Speaking H
Discussion & Debate H

Additional Courses

French 1, 2, 3 H, 4 H
German 1, 2, 3 H, 4 H
Spanish 1, 2, 3 H, 4 H

Mathematics

Algebra 1
Algebra 2
Algebra 2 H
Geometry
Geometry H
Pre-Calculus H
Calculus AB H
Calculus BC H
Statistics
Trigonometry

Social Science

XC/SE American Government
XC/SE American History
XC/SE Geography
American Government
American Government H
Geography A & B
Western Civ. & Modern European History
International Politics
Psychology
Sociology
African American History H
Economics H
US History A & B H

Natural/Physical Science

XC/SE Life Science
XC/SE Physical Science
XC/SE Earth & Space
Anatomy & Physiology H
Biology 1
Biology 1 H
Biology 2 H
Chemistry 1
Chemistry 1 H
Chemistry 2 H
Environmental Science
Field Ecology
Introduction to Physical Science
Physics 1
Physics 1 H
Zoology
Meteorology & Astronomy
Physics 2 H

Honors Classes

Alton High School offers Honors courses in ten subject areas. These courses incorporate acceleration of the learning material and a deeper penetration into the content and scope of the subject area. Emphasis is on the sequential development of the content area as well as critical and creative thinking skills.

Eligibility for enrollment in Honors courses is based on teacher recommendation, grades, and test scores. Student grades will be weighted in Honors courses to reflect differential in instruction and student workload.

Art

Art History AP H
Graphic Production H

English

College Prep English 1 H
College Prep English 2 H
College Prep English 3 H
College Prep English 4 H AP DC
College Prep English 4 H AP DC
Journalism 2 H DC
Pop Literature HC

Foreign Language

French 3 H
French 4 H AP
German 3 H DC
German 4 H AP DC
Spanish 3 H DC
Spanish 4 H AP DC

Mathematics

Algebra 2 H
Geometry H
Pre-Calculus H
Calculus AB H AP (DC with SLU)
Calculus BC H AP (DC with SLU)

Business

Accounting 1 & 2 HC
Economics H

Music

Band 3 H
Concert Choir H
Orchestra 2 H

Science

Biology 1 H
Chemistry 1 H
Chemistry 2 H AP (DC with SLU)
Physics 1 H
Physics 2 H AP

Social Studies

African-American History H
International Politics H DC
U.S. History H DC
American Government H HC
Modern European History HC
Western Civilization HC
Geography HC

Speech

Public Speaking H
Discussion and Debate H

Career & Technical Education

Broadcasting DC
CPU Networking 1 & 2 DC
Architectural Technology DC HC
CAD Technology DC HC
Graphic Communications 1 & 2 DC
Digital Electronics HC

AP = Advanced Placement
DC = Dual Credit with LCCC
H = Honors
HC – Honors Challenge

Advanced Placement (AP)

Designed for 11 and 12th grade students. Students do not have to be in AP classes to participate in exams. A successful grade on an AP exam is a widely recognized sign of college-level achievement. In fact, more than 90% of four-year colleges in the U.S. and colleges in more than 60 other countries give students college credit, advanced placement, or both on the basis of AP exam grades. The exams consist of multiple choice questions, free-response, and oral response. Since the test is optional, students are responsible for registering for the test and paying the fees associated with the test. For the cost of each AP exam, check website.

For further information regarding AP, visit the following website: <http://collegeboard.com>.

The AP courses at AHS are:

- Art History
- College Prep English 4 (both semesters)
- French 4
- German 4
- Spanish 4
- Calculus AB
- Calculus BC
- Physics 2
- Biology 2
- Chemistry 2

Dual Credit Classes

LCCC and SLU

Information on this page is current at the time of printing. Changes by LCCC and in AHS staff could change this information. Dual credit is not recommended for grades of D or F in a class. **Students must make the required score on LCCC placement tests to earn dual credit from LCCC.** Transfer of dual credit is at the discretion of each college. **Students are encouraged to get a transcript from LCCC in the second semester of their senior year to make sure that all of the dual credit classes that they have completed are listed.**

AHS Class	LCCC Course #	Credit Hours
Field Ecology	BIOL 165	3
German 3A H	GERM 131	4
German 3B H	GERM 132	4
German 4A H	GERM 231	4
German 4B H	GERM 232	4
Spanish 3A H	SPAN 131	4
Spanish 3B H	SPAN 132	4
Spanish 4A H	SPAN 231	4
Spanish 4B H	SPAN 232	4
French 3A H	FREN131	4
French 3B H	FREN132	4
French 4A H	FREN 231	4
French 4B H	FREN 232	4
*CP Eng 4 H	ENGL 131	3
*CP Eng 4 Lit H	ENGL 132	3
Broadcasting	MCOM 125	3
U.S. History A H	HIST 231	3
U.S. History B H	HIST 232	3
International Politics H	POLS 231	3
Adv Web Pg Design	WEB 150	3
Computer Concepts & Software Applications	OTEC 151	3
Internet Literacy	WEB 135	3
Keyboarding	OTEC 119	1
Multi Media	OTEC 115	1
Voc Comp Net 1	CNET 131, 148	7
Voc Comp Net 2	CNET 142, CNET 154	7
Architectural Tech	DRFT 131	3
CAD Tech	DRFT 146	3
Voc Welding 1	WELD 191	3
Voc Welding 2	WELD 193	3
Early Childhood and Ed 1	CHDV 131	3
Basic Nursing Ass't	NUAD 120	6
Graphic Communications 1	ART 131, CRRD 142, CGRD 144	9
Graphic Communications 2	ART151, ART 161, CGRD 150	9
Band	MUSIC 170	1
AHS Class	SLU Course #	Credit Hours
Calculus AB H	MATH 142	4
Calculus BC H	MATH 143	4
Chemistry 2 AP H (Sem 1)	Chem 163 & 165	4
Chemistry 2 AP H (Sem 2)	Chem 164 & 166	4

DEPARTMENT: Fine Arts

Department Head: Bridget Heck

Art History – Honors AP - 00110

Grades: 11-12

Length: 2 Semesters

Credits: 1

Prerequisite: None

Recommendation: College-bound students

Description: No experience in the history of art is assumed for those students who take the course. Students who have done well in other courses in the humanities, such as history and literature, or in any of the studio arts are especially encouraged to enroll. Students will examine major forms of artistic expression from a variety of cultures, past and present. They learn to look at works of art critically, with intelligence and sensitivity, and to analyze what they see. Student projects will include writing, critical thinking and hands-on activities. Various field trips to art/historical sites are included.

Ceramics - 00310

Grades: 9-10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: Successful completion of semester 1 is a prerequisite for semester 2

Recommendation: None

Description: This course is designed with the beginning pottery and sculpture student in mind, with experiences in different forms. A student will produce projects using basic hand building methods of forming clay with pinch, coil, and slab techniques. The student will be actively involved in three-dimensional construction using clay as the primary media. Creativity, problem solving, and critical thinking skills are used by the student for the purpose of creating their "own" artwork. The aesthetics, criticism, and history of pottery and sculpture are explored as well. **A lab fee of \$20.00 is required.**

Advanced Ceramics – 00320 & 00330

Grades: 10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: "B" average in Ceramics; Successful completion of semester 1 is a prerequisite for semester 2

Recommendation: Drawing and Painting

Description: This course is designed to continue developing skills in functional pottery and three-dimensional sculpture. Students will explore more complex methods of hand-building and forming techniques, as well as throwing on the potter's wheel. The course is also designed to further develop the student's creativity, problem solving, and critical thinking skills. Clay is the primary media used in this class. Emphasis is placed on quality artwork and craftsmanship. Glazing and finishing techniques will be explored in depth. The aesthetics, criticism, and history of ceramics are explored. **A lab fee of \$20 is required.**

Drawing and Painting - 00120

Grades: 9-10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: Successful completion of semester 1 is prerequisite for semester 2

Recommendation: Concentrated interest in drawing and painting

Description: This course is designed as a basic course in learning to represent objects, buildings, landscapes and the human figure. We will study the use of perspective, the use of dark and light, the fundamentals of color and composition, and the basic tools, materials, and techniques needed in the drawing and painting process. Emphasis will be placed on developing skills. This class will enable the student to “see” more completely. Some class time will be devoted to outdoor sketching. This course would benefit students seriously interested in the fine arts. **A lab fee of \$20.00 is required.**

Advanced Drawing and Painting – 00160 & 00170

Grades: 10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: “B” average in Drawing and Painting; Successful completion of semester 1 is a prerequisite for semester 2

Recommendation: A serious interest in drawing and painting

Description: **A lab fee of \$20.00 is required.**

This course is designed for the students who want to increase and refine skills and techniques in drawing and painting. First semester students will sketch and develop by working with everyday objects, studies of animals, people, and arrangements in cloth and still life. Second Semester projects will include quick sketches and finished drawings of the human body. Students will paint portraits and murals second semester.

Independent Projects - 00210

Grades: 11-12

Length: 1 Semester

Credits: ½

Prerequisite: Previous class works in the selected area and the instructor’s consent. Student must have teacher’s signature before writing it on the registration form.

Recommendation: None

Description: This course is offered in the following areas of the art curriculum: Ceramics, ad Photography and Printmaking. Students must have demonstrated a certain amount of skill in the particular area they are selecting. Emphasis will be on experimentation in a specific medium or combination of media. The direction of Independent Projects is mutually planned between the student and the teacher.

Fine Arts & CTE

Digital Photography - 00285

Grades: 9-10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: Successful completion of semester 1 is a prerequisite for semester 2

Recommendation: Students will need a digital camera and basic photo/art supplies

Description: **Due to the cost of photographic supplies, students can plan on spending \$35.00 per semester in fees.** This course is designed to explore the basic fundamentals of design and the unique process of producing multiple images. Emphasis will be placed on the techniques and characteristics of digital photography as an art form. Students will learn and experience basic print making techniques with linoleum, etching, and using a press. Students will learn basic photography techniques and film/photo development processes. Students will also learn about the history of photography and art and learn how to critique and analyze their own work as well as other artists work based on the elements and principles of design.

Advanced Photography - 00290

Grades: 10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: "B" average in Digital Photography or consent of instructor; Successful completion of semester 1 is a prerequisite for semester 2

Recommendation: Students will need to have a digital camera and basic photo supplies.

Description: **Due to the cost of photographic supplies, students can plan to spend \$35.00 per semester in fees.**

Students will strengthen their individual viewpoint and aesthetic as an artist. They will work on creating photographs and projects that are unified or thematic for individual portfolios.

Graphic Production – 00380 & 00390H

Grades: 9-10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: Consent of instructor

Recommendation: Strong art and English background will be helpful

Description: The primary objective of this class is to develop, sell, produce, and distribute the yearbook. While working on the yearbook, staff members will learn the basic skills of concept, design, and journalism. The staff is divided into four different departments, each with different responsibilities: copy department, design department, photo department, and business department. **Time outside of class will be required. Consent of instructor is required. Students must have a strong work ethic and individually motivated for their department assignments. Students must work well with others and be able to collaborate effectively.**

Graphic Communications 1 – 0735C

State name: Commercial Art 1 & 2 (P305/306)

Grades: 10-11-12 or permission of instructor

Length: 2 Semesters--meets 2 hours daily

Credits: 2 (Honors Credit Challenge)

Dual Credit: LCCC

Prerequisites: none

Recommendation: none

Description: Fresh ideas, communication skills and an eye for creative design fuel the graphic design field. The graphic designer uses many techniques to glamorize products and services. Students will learn these techniques in a 'hands on' environment, achieving proficiency in digital graphic design, typography, illustration, traditional and digital photography, airbrush, screen-printing, and dye sublimation. Students will use professional design software including Adobe Creative Suite and QuarkXPress. The graphic arts industry expects to hire 60,000 employees each year for the next 5-10 years.

A course fee of \$10.00 - \$50.00 is required for supplies.

Graphic Communications 2 – 0736C

State name: Commercial Art 3 & 4

(P307/308)

Grades: 11-12

Length: 2 Semesters--meets 2 hours daily

Credits: 2 (Honors Credit Challenge)

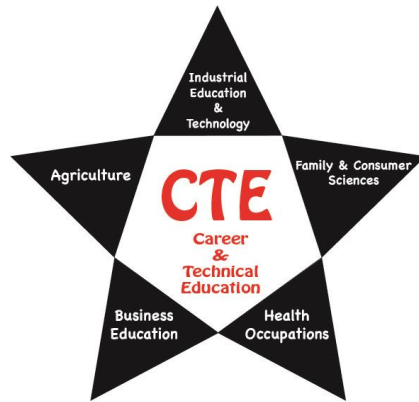
Dual Credit: LCCC

Prerequisites: Graphic Communications 1 (C or better)

Recommendation: Graphic Communications 1

Description: Graphic Communications 2 is a continuation of the first year program with extended study and skill development in areas of student interest and proficiency. The student will work independently to develop skills in the four major graphic design programs: Adobe Illustrator, Photoshop, In Design and QuarkXPress. The graphic arts industry expects to hire 60,000 employees each year for the next 5-10 years.

A course fee of \$10.00 - \$50.00 is required for supplies.



DEPARTMENT: Career & Technical Education (C.T.E.)

Division Chair: Tracey Summers
Department Chair: Pat Goetten

Agriculture

Basic Agricultural Science - 04930

Grades: 9-10

Length: Year

Credits: 1

Prerequisite: None

Recommendation: High interest in the agricultural/horticultural sciences

Description: Major units of instruction include agricultural research, soil science, advanced plant science, biotechnology, advanced animal science. Applied science skills and concepts will be stressed throughout the course as they relate to each area. Improving computer and workplace skills will be focused. Participation in FFA student organization activities (if applicable) and supervised agricultural experience projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Agriculture Mechanization - 04935

Grades: 9-10-11-12

Length: Year

Credits: 1

Prerequisite: None

Recommendation: None

Description: Agricultural mechanics has been divided into three areas:

-Agricultural Power- the **agricultural power** area deals with working with small engines. Persons involved in this area must be familiar with all of the different systems of the engine. Includes the tear down and reassemble of an engine.

-Electricity- The **electricity** area deals with the uses of electric power in agriculture. Exploring the science of electricity and relating electricity to the structure of elements and atoms. Draw and explain diagrams of circuits used in Agricultural and home wiring.

-Surveying- The **surveying** area deals with the measurement of land. This includes not only finding the area of a piece of land, but also its legal description.

Technology & Business Education

Accounting 1 - 00410

Grades: 10-11-12

Length: 2 Semesters

Credits: 1

Honor's Challenge

Prerequisite: minimum of C or better in Business & Technical Concepts A&B/Algebraic Concepts 1

Recommendation: Average ability, good concept of basic math functions and reasoning ability.

Description: Accounting is a preparation level accounting course that is of value to all students pursuing a strong background in business. Instruction includes information on keeping financial records, summarizing them for convenient interpretation and analyzing them to provide assistance to management for decision-making. In addition to stressing basic fundamentals and terminology of accounting, instruction should provide the understanding of financial reports and career opportunities in the accounting field. Computer applications may also be included. Practice sets with business papers may be used to emphasize actual business records management.

Accounting 2 - 00420

Grades: 11-12

Length: 2 Semesters

Credits: 1

Honors Challenge

Prerequisite: Accounting 1

Recommendation: None

Description: This course is planned to help students develop deeper knowledge of the principles of accounting with more emphasis being placed on financial statements and accounting records. It is a study of previously learned principles as they apply to the more complicated types of business organizations. Simulated business conditions may be provided through the use of practice sets. Skills are developed in the entry, retrieval, and analysis of business data, sometimes using computers for accounting business applications. This course provides a technical background for college-bound students who plan a business curriculum, as well as those who wish to pursue an accounting career.

Advanced Web Page Design - 05291

State Name: (B360/361)

Grades: 10-11-12

Length: 1 semester

Credits: ½

Dual Credit: LCCC

Prerequisite: Internet Literacy to get LCCC Web 150 credit and recommendation of instructor

Recommendation: Multi-Media B, Internet Literacy

Description: This is a preparation level course for students who have successfully completed Internet Literacy and Computer Multi-Media. Instruction will include using multimedia and programming tools to create a website that combines text, hyperlinks, images, video, and sounds. Instruction will include hardware and software to capture, edit, create, and compress audio and video clips as well as create 2D and 3D animated text, graphics and images. Other topics will include using tables to align images with text and creating navigational tools. Students will learn how to use templates, dynamic forms, cascading style sheets, connect with databases, and other interactive elements to enhance web pages.

Broadcasting - 01935

Grades: 11-12

Length: 2 semesters

Credits: 1

Dual Credit: LCCC (MCOM135)

Prerequisite: None

Recommendation: Students should have strong computer skills and be willing to appear on weekly announcements and PSA's and cover scheduled shifts on WLCA-2. Work outside the class is required.

Description: Careers in audio and video technology and film production span all aspects of the Audio Video communications industry. The Broadcasting Class along with the Advanced Multimedia class develop the technical knowledge and skills needed for success in the Arts, Audio Video Technology, and Communications fields. In this course, students develop general video production skills necessary to pursue careers in broadcasting video production. Students learn to operate video cameras, edit linear and nonlinear video, use audio techniques, control and monitor equipment, create media graphics, generate special effects, provide lighting, design sets, write scripts, and direct.

The perfect candidate is energetic, upbeat and possesses the ability to work well with others. The ability to write and read well is a must and they should be comfortable speaking in front of an audience. NEST-TV/WLCA-2 staff members soon learn to organize information and manage themselves and their time wisely. All students, not just the anchors, are expected to come to class appropriately groomed and ready to be on air if called upon. No prior experiences in broadcasting, editing, camera work or acting are necessary. Once a student has been accepted into the program they are taught how to deal professionally with all the pressures and challenges of producing a live, daily, news show and radio shifts.

Business & Technical Concepts (A & B) – 00830 & 00840

Grades: 9-10

Length: 2 Semesters

Credits: 1--Will meet Consumer Education requirement

Prerequisite: None, students should complete A before taking B

Recommendation: None

Description: This orientation level course will provide an overview of all aspects of business marketing and management, including the concepts, functions, and skills required for meeting the challenges of operating a business in a global economy. Topics covered will include the various forms of business ownership and the basic functional areas of business. Concepts may include using the computer while studying application in business careers, along with communication skills, business ethics, workplace skills, math and problem solving skills. The course is intended to provide the foundation for preparation level courses in Business. Both semesters will fulfill the Consumer Education graduation requirements.

Business Law - 00520

Grades: 10-11-12

Length: 1 Semester

Credits: ½

Prerequisite: None

Recommendation: 10th grade students-Business and Tech A & B or concurrently

Description: This course deals with the major elements of law and the legal foundations of our economy. The course is helpful for all students in understanding the duties and responsibilities of the individual and business organizations in our world. The major legal elements covered in this course are: basis of law in the United States, organization of courts, criminal law, insurance, negotiable instruments, real estate transactions, and business organization. Concentration is given to duties and responsibilities of the parties involved in the various legal transactions. Students will develop a well-rounded vocabulary of legal terms common to the world of law. They will also understand when and how the individual should seek legal remedy for violation of rights, and when and how

the individual may expect to have legal action taken against him for breach of his duties. A mock trial is used to introduce the student to trial procedures and the role of various trial participants.

Business Ownership/Management - 01110

State Name: B204

Grades: 10-11-12

Length: 1 Semester

Credits: ½

Prerequisite: None

Recommendation: A desire to own or manage your own business in the future

Description: This course teaches students how to begin and operate a business— entrepreneurship. Students learn the basics of marketing and management functions and tasks associated with owning and operating a business .After studying the economic forces in our economy and an individual’s potential to become an entrepreneur, students will learn the step-by-step process of starting a business. The process begins with selecting a business field and developing a business plan to learn how to manage all the aspects of the business. Business plans are developed with the aid of a computer. Additional before or after school will be required.

Entertainment & Sports Marketing – 00702

Grades: 11-12

Length: 1 semester

Credits: ½

Prerequisite: Business Tech A&B or concurrently

Description: Marketing is the tool that has allowed the United States economy to be one of the most successful in the world. Entertainment and Sports Marketing is a specialized course designed to offer students an opportunity to gain knowledge and develop skills related to the growing number of entertainment and sports industry. Students will be introduced to this universal process that includes market research, new product development, packaging, advertising, and selling. Team projects allow students to demonstrate their understanding of these areas. This is a hands-on experience that teaches the importance of marketing to everyone.

Computer Concepts & Software Applications - 00680

Grades: 9-10-11-12

Length: 1 Semester

Credits: ½

Dual Credit: LCCC

Prerequisite: None

Recommendation: Keyboarding

Description: Computer Concepts and Software Applications is an orientation level course designed to develop awareness and understanding of application software and equipment used to perform tasks in the workplace. Students will apply problem-solving skills to hands-on, real-life situations using a variety of business-related software applications. Students will explore topics related to computer concepts, operating systems, emerging technologies, and the development of employability skills.

Computer Multi-Media - 05270

State Name: (B359)

Grades: 10-11-12

Length: 1 Semester

Credits: ½

Dual Credit: LCCC

Prerequisite: None

Recommendation: Keyboarding and Computer Software Applications

Description: Students will use graphic design software to manipulate scanned images and computer graphics. A variety of desktop publishing and multimedia topics will be covered such as photographs, file formats, video files, and sound files. Students will work in a project-based environment to create websites. Students will further enhance previously learned skills. Students may have the opportunity to capture, edit, create, and compress audio and video clips. Programs such as Adobe Photoshop, Windows Movie Maker, Power Point, Publisher, and other software applications may be used to integrate technology with learning standards from a variety of content areas.

Advanced Multi-Media Honors - 01930

Grades: 11-12

Length: 2 Semesters

Credits: 1

Dual Credit: LCCC

Prerequisite: None

Recommendation: Students should have strong computer skills, be willing to appear on weekly announcements and PSA's, and be able to record school events as needed.

Description: Advanced Multimedia is a fast paced, learn as you go class. You will have the opportunity to promote school events and inform the student body and faculty on what's going on at Alton High School. Going beyond Computer Multi-Media, Advanced Multi-Media Honors will work closely with the Journalism classes. They will help produce and edit weekly announcements, Public Service Announcements, and other video projects, such as Senior Film. Students will also work on animations techniques, podcasting, and radio broadcasting. Filming opportunities will go beyond school hours including before school, during school, after school, and on weekends. Students must be willing to attend events for filming purposes. Weekly time outside of school will be required.

Consumer Education - 00710

***Graduation Requirement**

Grades: 11-12

Length: 1 Semester

Credits: ½

Prerequisite: None

Recommendation: None

Description: This course is a dynamic subject that equips people with the knowledge and skills needed to operate in the market place. It is the study of the knowledge needed to choose, to spend, and to conserve resources, goods and services. This course introduces the students to the subjects of advertising, economics, basic investing, taxes, savings, insurance and retail buymanship of automobiles. It teaches the students how and where to get credit, how to make a budget, how to write checks and balance a checkbook, how to make the right decision in buying a car and insurance, and how to fill out a credit application.

Economics Honors - 00720

Grades: 11-12

Course Length: 1 Semester

Credit: ½ (will count as required Consumer Education class)

Dual Credit: LCCC

Prerequisite: Meet Honors criteria

Recommendation: None

Description: If you are planning on a college major that is related to business, Economics will be required. Even if you are not going to major in business or go to a four year institution, an understanding in the way our economic system works will be a valuable asset. This course is about the behavior of economic systems at the national and international levels. Topics include the methodology of economics as a social science, supply and demand, definition and measurement of important macroeconomic variables and theoretical models of growth, inflation, interest rates, unemployment, business cycles, stabilization policy, exchange rates, and the balance of payments. The object of this course is to provide students with a general introduction to the study of economics, then to equip students with a responsible, participating citizen's knowledge of macroeconomic theory and policy. AP options will be investigated if there is enough student interest.

Information Processing - 01050

State Name: B305/B306

Grades: 10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: Keyboarding and Formatting; Computer Software Applications

Recommendation: None

Description: Information Processing is a preparation level course that includes the concepts and terminology related to the people, equipment, and procedures of information processing as well as skill development in the use of information processing equipment. Students will operate computer equipment to prepare memos, letters, reports, and forms. Students will create rough drafts, correct copy, create presentations, and perform backup procedures. In addition, students will prepare files for merging activities. Students will learn to locate and retrieve information from hard copy and electronic sources. Students will create, input, and update databases and spreadsheets and perform file management activities. Students will apply proper grammar, punctuation, spelling, and proofreading practices. Accuracy will be emphasized. Workplace and communication skills will be taught and integrated throughout this course.

Internet Literacy - 05280

Grades: 10-11-12

Length: 1 Semester

Credits: ½

Dual Credit: LCCC

Prerequisite: None

Recommendation: Keyboarding and Software Applications

Description: Introduces the concepts used to develop web sites. Investigates and discusses current economic, legal, and ethical issues concerning the World Wide Web. Students will learn to create and edit Web pages and Web documents. Students develop storyboards, site maps, and navigation structures in the process of creating, uploading, and maintaining their own Web Site. Students gain experience in importing and working with text, sound, images, and animation. HTML coding is also included. It is recommended that students have basic keyboarding and Window skills.
NOTE: Software for this course is provided for student use in the classroom.

Introduction to Computer Programming - 05260

Grades: 10-11-12

Length: 1 Semester

Credits: ½

Prerequisite: None

Recommendation: Keyboarding and Software Applications

Description: Use “Alice” software to build fun, user-friendly “virtual” and “dynamic” worlds with graphics and sound. Learn the concepts of modern programming using graphics, objects, and building “virtual worlds” using Alice, Carnegie Mellon’s graphics-rich teaching environment. Students will use graphics to learn event-driven programming, sequencing, looping, logic structures, recursion (structure and object repetition) variables, arrays, and incorporating text.

Keyboarding and Formatting - 00635

Grades: 9-10-11-12

Length: 1 Quarter

Credits: ¼ (opposite Auto Safety)

Dual Credit: LCCC

Prerequisite: None

Recommendation: None

Description: This course develops keyboarding skills. This course may be taught in an individualized learning format in which case an instructor is with the students to facilitate the learning process. Additionally, students will learn to edit and format text and paragraphs, change fonts, work with headers and footers, cut and paste text, and set/use tabs.

Office Occupations

State Name: B308/309

Grades: 12

Length: 2 Semesters (Class meets 2 hours daily)

Credits: 2

Dual Credit: LCCC

Prerequisite: Information Processing, Keyboarding and Computer Software Applications

Recommendation: None

Description: Office Occupations is a two-semester preparation level course that is designed to prepare students for entry-level employment in a technology based office setting. Integrated software applications will be included in this course. Instruction will focus on office etiquette, office management, telephone and communications procedures, time management, and proper business behavior and attire. Students will create, edit, correct documents, records and files, perform information-processing activities (e.g. spreadsheets, database entry, (desktop publishing) and prepare documents using presentation software. Students will accurately apply proper grammar, punctuation, spelling, proofreading skills and real-life math applications. Students will apply new skills as well as skills learned in other courses to complete a series of realistic office assignments or participate in an office work-based learning experience. Workplace skills as well as communication skills will be taught and integrated throughout this course.

Office Procedures - 00970

Grades: 12

Length: 2 Semesters (Class meets 2 hours daily)

Credits: 2 ½

Dual Credit: LCCC

Prerequisite: None

Recommendation: Successful completion of Keyboarding & Formatting

Description: This course places an emphasis on performing clerical duties, organizing and planning, processing mail, coordinating and performing activities for employer, telephone techniques, records management, and document formatting utilizing computer software. Office etiquette and procedures are reviewed and acquired skills are integrated in the completion of a series of realistic office assignments. This class provides an excellent background for an office career.

Office Occupations Co-op - 00960

State Name: B401/B402

Grades: 12

Length: 2 Semesters (Class meets 2 hours daily)

Credits: 3

Prerequisite: Information Processing, Keyboarding and Computer Software Applications

Recommendation: None

Description: Office Occupations Co-op is a Capstone course designed to assist students in the development of effective business skills and attitudes using practical, advance instruction in school and at the work site through cooperative education. Approximately half of the school day is spent taking classes at school and the other half is on-the-job training supervised by the designated training sponsor and coordinated by the teacher coordinator. The related class at school is planned to develop skills and attitudes that are applied at the worksite. A training plan is developed jointly by the teacher coordinator, training sponsor, and student that identify training to be provided. Training in the related class at school focuses upon the student's career and technical education, with additional assignments based upon areas where performance indicates a need. Related instruction also includes workplace skills such as seeking and applying for employment, communication, maintaining professionalism, workplace ethics, etc. Current generation equipment is utilized in the course to develop information management competencies required for employment in this cluster of careers. Instruction involves the use of simulations and computer-assisted instruction, as well as specific application software.

Computer Networking 1 – 0739C

State Name: N301/N302

Grades: 10-11-12

Length: 1 Semester (Class meets 2 hours daily)

Credits: ½

Dual Credit: LCCC

Prerequisite: One of the following: Software Applications, Internet Literacy, Programming, or consent of instructor

Recommendation: Keyboarding

Description: This is a preparation level course designed to provide students with fundamental knowledge of the various network operating systems. Students will also learn the terminology and concepts associated with computer hardware, software, and network design. An introduction to networking technologies including the study and use of the OSU model and creating of IP subnets as well as Network topologies, protocols, and basic commands for Windows Server, Netware and Unix/Linux networking operating systems are also covered. This course is eligible for Honors Challenge credit.

Computer Networking 2 – 0740C

State Name: N303/N304

Grades: 11-12

Length: 1 Semester

Credits: ½

Dual Credit: LCCC

Prerequisite: One of the following: Software Applications, Internet Literacy, Programming, or consent of instructor

Recommendation: Keyboarding

Description: This is a preparation level course for students who have successfully completed Computer Networking 1. This course is designed to demonstrate the student's ability to diagnose, troubleshoot, install, repair and configure hardware components. Students will learn to use the basics of help desk services, system monitoring, and data backup and recovery to increase network efficiency. Students will continue using their skills to set up, configure, test troubleshoot, maintain, and administer a data network using various operating systems. Instruction includes techniques to secure and protect network servers and data. Students will learn to use standard software tools to determine system vulnerabilities and make corrections for those as well as setting up a system for Internet access. This course is eligible for Honors Challenge credit.

Cooperative Work Training

State Name: (X401/X402) Interrelated Co-op

Department Head: Dr. Martha Price-Darr

The cooperative work-training program (CWT) is a program designed for students to help them adjust to the real world of work. Cooperative work training is offered to any student who has reached the age of 16, is employed and may be having difficulties in the school environment. Student and parent must sign a consent form agreeing to follow the rules of CWT and maintain employment. The program consists of two parts, jobs orientation (the class) and work experience (the job). Enrollment in **both** components is required. CWT support classes are also offered in English, math, and social studies.

CWT English - 01650

Grades: 10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: None

Recommendation: Referral required

Description: CWT English focuses on the use of expressive and conceptive communication skills that are necessary for students to cope in today's world of work. Many opportunities for the practical application of language skills are given, especially as they pertain to school, on- the-job training and goals for after graduation.

CWT Math - 04080

Grades: 10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: None

Recommendation: Referral required

Description: CWT Math is a two-semester course of which students learn to use mathematics effectively as a tool in their personal and business lives. After students have completed this course, they will be able to apply mathematical concepts in various personal and business situations. This course may be used to meet the mathematics requirement for graduation. Students will review and apply mathematical operations with whole numbers, decimals, fractions, ratios, and percents. They will understand terminology relating to personal and business mathematics applications and apply basic math skills to the situation of both personal and business applications. They will use common mathematical formulas to solve a variety of personal and business mathematics as well as apply knowledge of computer and calculator use.

CWT Social Studies - 05370

Grades: 10-11-12

Length: 2 Semesters

Credits: 1, fulfills graduation requirements for US History A, US History B, American Government.

Prerequisite: None

Recommendation: Referral required

Description: CWT Social Studies focuses on American History and the U.S. Constitution. The first semester parallels U.S. History A and the second semester includes U.S. History B and U.S. Government curriculum. The federal and state constitution tests, required for graduation are given during this semester

CWT Job Orientation – 07410 & 07420

Grades: 10-11-12

Length: 2 Semesters

Credits: 1, fulfills graduation requirement for social studies elective.

Prerequisite: Must be 16 years old and employed

Recommendation: Referral required

Description: In Job Orientation, students learn basic job search skills, attitudes, and habits necessary for working citizens. Applications, proper work attitudes, and habits are covered every year. Other topics may include career research, personal goal setting, understanding paychecks, safety on the job, basic economics systems, labor laws, unions, taxes, insurance, current events, and other topics relating to the world of work. Job Orientation counts as an elective Social Studies credit.

Work Experience – 07430 & 07440

Grades: 10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: Must be 16 years old and employed

Recommendation: Referral required

Description: The Work experience component of CWT requires students to obtain and maintain a job in the private sector for the entire semester. This work experience will be documented and evaluated by the instructor who will make contact with the employer and will make on-site visits.

Family & Consumer Science

Child & the Family - 03050

State Course ID: 19052A001 Child Development and Parenting

Credits: ½

Grade: 10-11-12

Length: 1 Semester

Prerequisite: None (Introduction to FACS recommended)

Description: Child Development and Parenting addresses the knowledge, skills, attitudes, and behaviors associated with supporting and promoting optimal growth and development of infants and children. Topics include prenatal care and fetal development with a focus on research-based nurturing and parenting practices and skills, including brain development research, that support positive development of children. Students will explore opportunities in human services and education-related careers and develop a Preschool portfolio career board.

Early Childhood Care & Education 1 - 03010

State Course ID: 19054A001 Care and Learning Services Occupations

Credits: 2

Grade: 11-12

Length: 2 Semesters/ Full Year—meets 2 hours daily

Dual Credit: LCCC

Prerequisite: Students who sign up for this course may need to undergo a background check prior to the start of class

Recommendation: C or above in Child & the Family

Description: This course provides students with information and practical experiences needed for the development of

competencies related to child care, day care, and other education services occupations. Laboratory experiences in an early childhood learning facility are included throughout the class. Students meet standards in developing programs and assisting with children's activities. Classroom study includes the philosophy and management of care centers and the state and local regulations governing care-giving operations. Project-based learning experiences include planning and implementing developmentally appropriate activities, basic health and safety practices, and legal requirements of teaching young children. The learning experiences will involve working with children simulating those found in business and industry, as well as preparation for developing and facilitating these activities. Students taking this course should be enthusiastic about working with young children and their families.

Students may earn a Level One Early Childhood Credential, which is a state recognized credential, upon successful completion of course work. This class may be taken as a dual credit class in partnership with LCCC, equal to 3 semester hours of CHDV 131 – Introduction to Child Development. Students must earn a minimum of a C in the class and pass the LCC reading comprehension test in order to qualify for college credit. Students are expected to have excellent attendance in order to qualify for dual credit. A college level textbook will be used. A fee may be charged for the ECE credential..

Early Childhood Care & Education 2 - 03020

State Course ID: 19153A001 Early Childhood Education

Credits: 2

Grade: 12

Length: 2 Semesters—meets 2 hours daily

Prerequisite: Students must have passed one year of Early Childhood Care and Education 1 with a C or better. Students who sign up for this course may need to undergo a background check.

Recommendation: Concurrent with Psychology

Description: Early Childhood Care and Education 2 is designed for students who wish to further their experiences in this field by introducing students to the principles underlying teaching and learning, responsibilities and duties of teachers, and strategies and techniques to deliver knowledge and information. This course prepares students to guide the development of young children in an educational setting through classroom and job shadowing experience. Course content includes child development, care, and developmentally appropriate activities, basic health and safety practices, and legal requirements of teaching young children. Students will research the requirements of early childhood education careers and develop / expand their career portfolio. A college level textbook is used for this class.

Nutrition and Wellness – 03110 (Foods 1)

State Name: 16054A003

Credits: 1

Grades: 10-11-12

Length: 2 Semesters

Prerequisite: None; C or better first semester in order to remain enrolled in course second semester

Recommendation: None

Description: Semester 1: Students will be introduced to kitchen basics including safety and sanitation, foodborne illnesses, kitchen terms and equipment, and measuring techniques. Students will learn about their nutritional needs and world hunger. Students will gain a variety of skills through practical application including how to plan, prepare, and food science principles of produce, proteins, grains, and desserts through lectures, individual and group activities, and lab experiences. This class is semi-project based.

Semester 2: This semester will focus on our ever-changing world through the exploration of the cuisine of several diverse ethnic groups. Students will examine past and current immigration patterns making connections to American culture, custom, and cuisine. Preparation of authentic and modified food products will also provide students with hands on experiences that will allow them to examine food industry trends, and develop broader insights and understanding of other cultures. Emphasis on: the food supply including grocery shopping, eating disorders including obesity, regional foods, demonstration techniques, special equipment, and pastry preparation including pies and cake decorating. Students may need to provide optional supplies for special projects.

Introduction to Family and Consumer Science Careers – 0320T & 0321T

State Name: 22201A001

Credits: 1

Grades: 9

Length: 2 Semesters

Prerequisite: None

Recommendation: None

Description: **Semester 1:** This course is designed to build and strengthen a student's interest and background in the fundamental areas of Family and Consumer Sciences. The first quarter focuses on personality development, self-esteem development, and basic consumer skills. The second quarter focuses on fashion and clothing construction with an introduction to interior design. Group and laboratory activities are emphasized during each semester. The class is project based.

Semester 2: Semester 1 is a prerequisite for semester 2. This course introduces the topics and provides a foundation for the higher level courses taught in Family and Consumer Sciences. The third quarter focuses on the relationship of diet to health, kitchen management, and food preparation. The fourth quarter focuses on the development and care of children and the workings of the family. Skills in science and mathematics are reinforced in this course. This class is project based.

Textiles and Design I - 03100

State Name: Textiles and Design I (19201A001)

Credits: ½

Course Length: 1 Semester

Grades: 10-11-12

Prerequisite: None

Recommendation: Freshman Family and Consumer Science

Description: This course provides knowledge and understanding of textiles, fashions, and fabrics necessary in meeting the clothing and needs of individuals, families, and the general public. Related math and scientific applications that correspond to the industry will be included throughout this course. Information and experiences provide students with an understanding of the psychological aspects of fabric and apparel products, as related to the needs of people and careers. Projects include but are not limited to: a figure/color analysis portfolio, a wardrobe budget, a fiber art project, sewing a tote bag or pajama pants from a pattern, redesigning/recycling a clothing item, accessory, or home fashion item, student choice independent project, and a final portfolio.

Health Occupations

PLTW Biomedical Sciences

Principles of
Biomedical
Sciences

Human Body
Systems
(2015-2016)

Medical
Interventions
(2016-2017)

Principles of Biomedical Science – 02650

State Name: J104

Grades: 9 - 10-11 (preferably incoming 9th Graders)

Length: 2 Semesters

Credits: 1

Prerequisite: None

Recommendation: Interest in health careers

Description: In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

Human Body Systems - 06245

Grades: 10 – 11 (Preferably 10th Graders)

Length: 2 Semesters

Credits: 1

Prerequisite: C or better in Principles of Biomedical Science

Recommendation: Interest in health career

Description: Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on MANIKEN® skeletal models; use data acquisition software to monitor body functions, such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

Medical Interventions –

Grades: 11-12

Length: 2 Semesters

Credits: 1

Prerequisite: C or better in Human Body Systems

Description: Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through cases, students learn about a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

Basic Nursing Assistant – 0268H

State Name: Health Occupations 1

Grades: 11-12

Length: 1 Semester—meets 2 hours daily

Credits: 1

Dual Credit: LCCC

Prerequisite: C or better in Medical Intervention, C or B in Biology and Health, 2.5 GPA overall, attendance evaluated

Recommendation: Interest in Nursing Assistant Certificate

Description: This course is open to junior and senior students who would like to further explore skills, knowledge, and attitudes required of a health worker. Health Occupations 1 & 2 are approved by the Illinois Department of Public Health as Certified Nursing Assistant. Training programs for those interested and who meet requirements. Basic health occupation educational requirements, job outlook, and desirable personal characteristics are included in this course. Skills, such as maintaining a safe environment, bed making, patient bathing, vital signs, and hand washing are included along with related theory, communication skills, and medical terminology. A clinical practice requirement of 40 hours at local nursing homes/hospitals is included in the course. A need has been noted by the regional Workforce Investment Board who identified five health care fields as areas of critical skills shortage. One of the five is nursing which has been identified where the shortage is most acute.

Cost: \$100.00 (state test, medical test, and uniform)

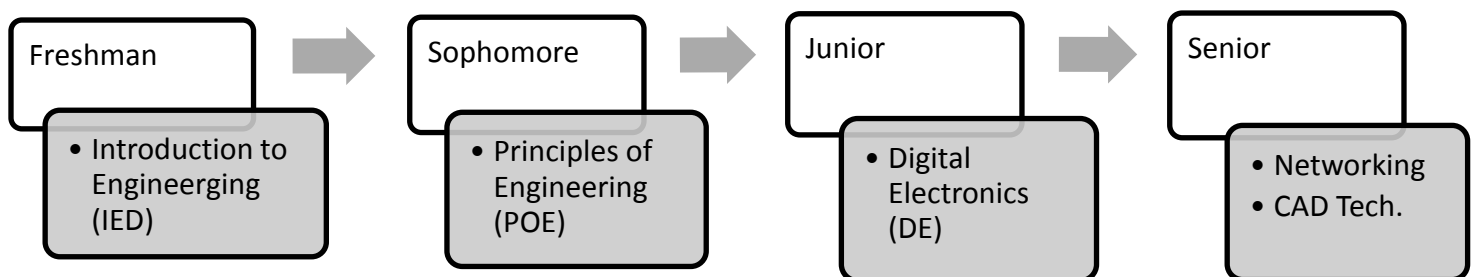
Students must have their own transportation for clinicals, they may drive to class.

Industrial Education & Technology

Project Lead the Way

High School: Pathway to Engineering TM

Project Lead The Way (PLTW) offers a dynamic high school program that provides students with real-world learning and hands-on experience. Students interested in engineering, biomechanics, aeronautics, and other applied math and science arenas will discover PLTW is an exciting portal into these industries. Course sequence:



Intro to Engineering Design (IED) - 03850

State Name: (M201/M202)

Grades: 9-10-11-12

Length: 2 Semesters

Credits: 1 (Honors Credit Challenge)

Prerequisite: Algebra 1 completed or permission of instructor

Recommendation: Interest in an engineering career

Description: IED-Students are introduced to engineering through 3-D modeling software, cooperative projects, and technical sketching. Emphasis is placed on finding solutions for manufacturing companies. Students are able to take their problem solving skills they have learned in the classroom and use them to solve everyday situations.

Principles of Engineering (POE) - 03860

State Name: (M201/M202)

Grades: 10-11-12

Length: 2 Semesters

Credits: 1 (Honors Credit Challenge)

Prerequisite: IED and Algebra 1 completed or permission of instructor

Recommendation: Interest in an engineering career

Description: POE- Technology course that helps students understand the field of engineering/engineering technology. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science, and technology in any engineering problem solving process to benefit people. This course also includes concerns about social and political consequences of technological change.

Digital Electronics (DE) - 03865

State Name: (M327/M328)

Grades: 10-11-12

Length: 2 Semesters

Credits: 1 (Honors Credit Challenge)

Prerequisite: Algebra 2 completed or permission of instructor

Recommendation: Interest in engineering career

Description: Digital Electronics™ is the study of electronic circuits that are used to process and control digital signals. In contrast to analog electronics, where information is represented by a continuously varying voltage, digital signals are represented by two discrete voltages or logical levels. This distinction allows greater signal speed and storage capabilities and has revolutionized the world electronics. Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras, high definition televisions, etc.

The major focus of the DE course is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation.

Utilizing the hands on and virtual activities, students will analyze, design and build digital electronic circuits. While implanting these designs students will continually hone their interpersonal skills, creative abilities and understanding of the design process.

Digital Electronics™ (DE) is a high school level course that is appropriate for 10th, 11th, or 12th grade students interested in electronics. Other than their concurrent enrollment in college preparatory mathematics and science course, this course assumes no previous knowledge.

Digital Electronics™ is one of three foundation courses in the Project Lead The Way® high school pre-engineering program. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology.

Course will involve working with Circuit Design Software, Arduino based platforms, breadboarding, applicable Math elements, and robotics.

Intro to Technology - 03505

Grades: 9-10 Orientation (102)

Length: 1 Semester

Credits: 1/2

Prerequisite: None

Recommendation: None

Description: This course is designed to enable students to make meaningful decisions regarding further industrial occupations study. Course content includes bridge model, air rocket, model car, and residential structural scaled models. During these projects the students will study stress, tension, friction, design layout, blueprint reading, assemblies, and construction methods.

Architectural Technology – 0716M

State Name: Drafting 1 & 2 (D309/D310)

Grades: 10-11-12

Length: 2 Semesters—meets 2 hours daily

Credits: 2 (Honors Credit Challenge)

Dual Credit: LCCC

Prerequisite: None

Recommendation: Introduction to Industrial Arts

Description: Architecture Technology introduces students to the world of architectural planning and design through scaled models, floor plans, foundations, elevations, perspective drawings, site plans, and detailed drawings. Students learn to draw on the boards and will translate their skills to computer aided drafting.

Computer Aided Drafting (CAD) Technology – 0717M

State Name: Drafting 3 & 4 (D311/D312)

Grades: 11-12

Length: 2 Semesters—meets 2 hours daily

Credits: 2—(Honors Credit Challenge)

Dual Credit: LCCC

Prerequisite: Architectural Technology, IED or permission of the instructor

Recommendation: None

Description: The CAD Technology students will use their previous skills from IED and Architectural Technology to create buildings and parts in 3-D on the computer. Students will use programs such as: Revit, AutoCAD, Inventor and 3-D Max to generate residential and commercial buildings. Floor plans, foundations, elevations, and details will be constructed on the computer to show students a possible future in architecture.

Woodworking - 03810

State Name: Intro to Construction A (C201)

Grades: 9-10-11-12

Length: 1 Semester

Credits: 1/2

Prerequisite: None

Recommendation: None

Description: **Students will need to pay for materials for personal projects (\$10-\$40 depending on the project chosen)** This introductory course will teach the use of and the safe operation of woodworking machines and equipment in the construction of a project. The student will study planning, construction, and finishing methods. Each student will select two projects to complete within the semester.

Advanced Woodworking – 03820 & 03830

State Name: Introduction to Construction

B/C (382) (C202/219)

Grades: 10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: Woodworking with an A or B

Recommendation: None

Description: Students will need to pay for materials for personal projects (\$10-\$40 depending on projects chosen)

This course is designed to learn advanced woodworking techniques on power woodworking equipment. Construction methods, different joints, and finishing methods will be practiced in the construction and assembly of major projects.

Construction Trades 1 – 0731M

State Name: (C307/308)

Grades: 11-12

Length: 2 Semesters—meets 2 hours daily

Credits: 2

Prerequisite: none

Recommendation: Drafting and Math skills

Description: This course provides experiences related to the erection, installation, and maintenance of residential building and related fixtures. Planned learning activities will allow students to become knowledgeable of fundamental principles and methods and to develop technical skills related to masonry, carpentry, and finish work. Instruction includes: safety principles and practices; recognition of standard lumber sizes; foundation layout methods; building concepts and procedures; local, state and national codes; cost estimating; and blueprint reading. Second semester will build on experience students had in the first semester. Units of study will include: advanced safety practices and principles; insulating methods and materials; dry wall applications and finishing; observe and demonstrate installation of plumbing fixtures/systems; wall and ceiling painting; staining and varnishing doors, windows and exterior trim; installing doors and interior trim; installing cabinets, install finished flooring ; observe and discuss installation of electrical fixtures; cost estimating. All leaning experiences are designed to allow the students to acquire job entry skills and knowledge.

Construction Trades 2 – 0732M

State Name: (C309/310)

Grades: 12

Length: 2 Semesters—meets 2 hours daily

Credits: 2

Dual Credit: LCCC

Prerequisite: Construction Trades 1

Recommendation: Drafting and Math skills

Description: In this course students learn about jobs in the construction field by participating in the following: carpentry, masonry, painting, concrete work, roofing, and dry walling. This course covers related instruction necessary to accomplish the construction of a modern house. Course content includes: blueprint reading, job planning, basic manipulative skills, computations, proper work habits, and the use of hand and machine tools. The completion of the house construction is the major focus of this course.

Basic Auto Maintenance - 03480

State Name: Intro to Mechanics A (C207)

Grades: 9-10-11-12

Length: 1 Semester

Credits: 1/2

Prerequisite: None

Recommendation: None

Description: The basic auto mechanics student is taught the essential skills needed to perform basic maintenance on an automobile. This study will help the student to understand the automotive industry and the basic construction of the automobile. The student will realize that some maintenance jobs on the automobile are simple and that money can be saved by performing these tasks themselves. They will also realize that some repairs are very technical and must be accomplished by a trained professional.

Automotive Technology 1 – 0723M

State Name: Automotive Technology 1 & 2 (T305/T306)

Grades: 11-12

Length: 2 Semesters—meets 2 hours daily

Credits: 2

Prerequisite: None

Recommendation: None

Description: The student will begin by completely disassembling an engine. By studying the engine from the inside out, students will learn how an engine works and why it is designed the way it is. Using precision instruments, students will make critical measurements of the engine's crankshaft, camshaft, pistons, and block. Next comes "dialing in" the camshaft. Finally, students will reassemble the engine, install it in a test stand, and start it to make the final valve and timing settings. After completing the engine overhaul, students will disassemble and reassemble standard transmissions, automatic transmissions, and differentials for the purpose of seeing how they work. Safe work habits will be stressed daily. Second semester will be spent learning to use automotive test equipment to diagnose problems and confirm adjustments and repairs. With this equipment, the student will learn to diagnose problems and repair and adjust components in any automotive electrical system, fuel system, and compression system. The student will also learn to do complete engine tune-ups and emission control system checks and repairs.

Automotive Technology 2 – 0724M

State Name: Automotive Technology 3 & 4 (T307/T308)

Grades: 12

Length: 2 Semesters—meets 2 hours daily

Credits: 2

Prerequisite: Automotive Technology 1

Recommendation: None

Description: The student will put to use the skills and knowledge learned in the first two semesters by working on cars from the community. The student will gain new skills by repairing problems that were not previously faced. The student will learn to write repair orders for work to be done, as well as ordering the parts needed for the repair job. Safe work habits will be stressed daily. Second Semester, students will continue to work on cars from the community. The student will become more accurate in diagnosing, quicker in repairs and adjustments, and more confident in his/her abilities as a mechanic. Under the guidance of the instructor, the student will practice service station record keeping, checking monthly on the financial condition of the "business." Students will write a resume, participate in practice "job interviews" and investigate job opportunities available in the field of auto mechanics.

Graphic Principles - 03630

Grades: 9-10-11-12

Length: 1 Semester

Credits: 1/2

Prerequisite: None

Recommendation: None

Description: Discover the secrets of the graphic communications industry in this exploratory class that utilizes mechanical drawing and printing techniques. This class focuses on the fundamentals of graphic communications from concept design to finished product. Students are instructed in basic tools, techniques, and equipment specific to commercial printing and bindery industry. Due to the hands on nature of this class, students should have good manual dexterity, be able to lift moderate amounts of weight and stand for periods of time. The graphic arts industry expects to hire 60,000 employees each year for the next 5-10 years.

Intro to Graphic Communications - 03540

State Name: Intro to Graphic Communications A (C213)

Grades: 9-10-11-12

Length: 1 Semester

Credits: 1/2

Prerequisite: None

Recommendation: None

Description: Art and creativity are used in business and industry daily to communicate new products and ideas. This class inspires students to study various techniques employed in this process. The student will be introduced to drawing, page layout, computer graphics, photography, and many other diverse aspects of the advertising field. The graphic arts industry expects to hire 60,000 employees each year for the next 5-10 years.

Intro to Welding A - 03780

Grades: 9 - 10 - 11-12

Length: 1 Semester

Credits: 1/2

Prerequisite: None

Recommendation: None

Description: Welding is a basic course to learn welding processes. The areas to be covered are electric arc, gas (oxyacetylene) brazing, fusion welding, gas (oxyacetylene) cutting, and plasma cutting. Students will develop welding skills through textbook study with emphasis on hands on practice.

Welding 1 – 0781M

State Name: Welding 1 & 2 (W309/W310)

Grades: 10 - 11-12

Length: 2 Semesters—meets 2 hours daily

Credits: 2

Dual Credit: LCCC-Welding 191

Prerequisite: None

Recommendation: None

Description: Welding 1 is the first of a series of four welding classes that consist of planned learning experiences designed to provide the student with job entry-level skills. Areas of instruction include, but are not limited to: safety, machine operation—grinders, metal saws, and drilling machines. Other areas covered are shielded metal arc welding, flame cutting—manual and semi-automatic, heating and forming metal, housekeeping and brazing ferrous metals. Also, shielded metal arc welding—tee joints, lap, outside multiple pass welds and corner welds. **Student needs: gloves, glasses, welding helmet, 100% cotton shirt or leather jacket, fire retardant jacket-expenses cost \$50-100**

Welding 2 – 0782M

State Name: Welding 3 & 4 (W311/W312)

Grades: 11 - 12

Length: 2 Semesters—meets 2 hours daily

Credits: 2

Dual Credit: LCCC-Welding 193

Prerequisite: Welding 1

Recommendation: None

Description: Welding 2 continues to develop and perfect previously introduced skills. Additional areas of instruction include: inspection of specified jobs; maintenance of equipment; proper material selection; brazing non-ferrous metals; air/carbon arc cutting; pipe welding; spot welding. Welding 2 also perfects job entry-level skills that were previously learned. Additional areas of instruction include: layout and setup; distortion control; proper rod selection; hard facing and surface buildup; gas/tungsten arc welding; non-ferrous arc welding, and weld testing. Lab and lecture, basic blue print reading, math, shielded metal arc welding (SMAW), gas metal arc welding (GMAW), flux cored arc welding (FCAW)-tee, lap, outside corners, weld joints, gas tungsten arc welding (GTAW). **Student needs: gloves, glasses, welding helmet, 100% cotton shirt or leather jacket, fire retardant jacket-expenses cost \$50-100**

DEPARTMENT: Driver Education

Department Head: Dan Carter

Auto Safety – 01210 - 01240

Graduation Requirement

Grades: 9-10-11-12

Length: One quarter

Credits: ¼

Prerequisite: Students must have passed 10 classes within the previous two semesters and be 15 years of age

Recommendation: None

Description: If a student wishes to get an Illinois Driver's License after his/her 16th birthday, he/she must successfully complete Auto Safety and Behind the Wheel, at 18 students can get license with Auto Safety or wait until 21st birthday; however, this class is a graduation requirement. Auto Safety is also offered in the summer school program. Summer Auto Safety meets six weeks, and the fee per student is \$55 (fee subject to change). Out- of-district students are also permitted to enroll in the classroom program at an additional cost. No absences are allowed in summer to meet the 30 hours requirement of the state. Auto Safety is a required class for high school graduation. This course consists of:

- A. Learning the Rules of the Road
- B. Viewing Films and tapes showing different aspects of driving and attitudes
- C. Listening to Guest speakers (Approximately five per quarter)

Behind the Wheel Driving

Grades: 9-10-11-12

Length: 6 Hours Driving/ 6 Hours Observation

Credits: None

Prerequisite: Auto Safety and Illinois Driving Permit

Recommendation: None

Description: Behind the Wheel is the lab portion of Auto Safety. It will last approximately six weeks, with six hours of this being actual driving time. All students who have passed or are presently enrolled in Auto Safety and have their permit will be signed up for Behind the Wheel. Behind the Wheel is taught during the summer time, before school, after school, during study hall, and other times designated by the driving coordinator. Driving times are assigned by student's date of birth and availability of driving instructors. Behind the Wheel Driving is not a scheduled hour, but will be scheduled individually with the teacher.

Cost: \$20 Permit Fee (Payable to: Secretary of State), \$250 Behind the Wheel (Payable to: Alton High School). Fee

may be paid to the Driver's Education Office, C151a.

DEPARTMENT: English

Division Chair: Andrea Smith

Department Head: Jeff Hudson

College Prep. English 1 – 0171T

Fulfills English 1 graduation requirement

Grades: 9

Length: 2 Semesters

Credits: 1

Prerequisite: None

Recommendation: None

Description: By the end of the course, students will know how to read a variety of novels, poetry, and short stories, and determine the author's main argument or purpose for that particular piece of writing. Students will apply and discuss rhetorical concepts for both reading and writing. Students will also learn how to evaluate the author's argument, and to form their own arguments during the writing process. In addition, vocabulary will be drawn from the literary selections. Students will be given assignments that are to be completed in a timely manner.

College Prep. English 1 Honors – 0167T

Fulfills English 1 graduation requirement

Grades: 9

Length: 2 Semesters

Credits: 1

Prerequisite: Language Arts, GPA of an A, and the recommendation of the 8th grade English teacher

Recommendation: Consent of Freshmen Counselor

Description: English 1 Honors is designed for students who meet the established criteria. Students will undertake in-depth studies in both composition and literature. They will be expected to think critically, make rational decisions, and solve problems. Students work at an accelerated pace in the following areas: organizational patterns of the four specific forms of paragraph writing, informative, argumentative, and persuasive essays, short story elements, novels, and plays. Advanced concepts of grammar will be explored.

The second semester emphasizes the study of all forms of literature including novels, epic, world mythology, satire, and dramas. Students will apply those writing skills learned in the first semester to literature-based assignments, such as comparing and contrasting characters, plots, and themes; research involving historical circumstances affecting the behavior of the character; and personal responses to themes, conflicts, and symbolism. Vocabulary will be selected from the literature. Students will be expected to use vocabulary words in speaking and writing.

College Prep. English 2 - 01770

Fulfills English 2 graduation requirement

Grades: 10

Length: 2 Semesters

Credits: 1

Prerequisite: None

Recommendation: None

Description: College Prep. English 2 students will develop an awareness of the power of written communication as they refine their composition skills through writing and editing multi-paragraph essays. Utilizing literature, students will focus on persuasive and expository writing. An emphasis will be placed on organization, sentence structure, usage, and mechanics.

College Prep. English 2 Honors - 01790

Fulfills English 2 graduation requirement

Grades: 10

Length: 2 Semesters

Credits: 1

Prerequisite: Credit in CP English 1 Honors and teacher recommendation

Recommendation: None

Description: CP English 2 Honors is a writing class intended to introduce young, inexperienced writers to the writing process and to open broader opportunities for experienced writers. A variety of literature will be used to focus on further development of comprehension skills and fluency in writing.

College Prep. English 3 - 01450

Fulfills English 3 graduation requirement

Grades: 11-12

Length: 2 Semesters

Credits: 1

Prerequisite: None

Recommendation: College-bound students; teacher recommendation

Description: CP English 3 emphasizes the works of major American writers and artists. This course involves analytical reading and writing of the varied genres: novels, short stories, poetry, plays, and essays. Students learn to identify basic themes, dominating forces and movements in the American culture, and the writer or artist's views of the human condition. ACT Reading, English, and writing skills are also emphasized.

College & Technical Writing 3 - 01420

Fulfills English 3 graduation requirement

Grades: 11

Length: 2 Semesters

Credits: 1

Prerequisite: Credit in CP English 2

Recommendation: For students who plan to pursue careers in technical fields.

Description: This course prepares students for admission to junior or community colleges, technical colleges, and occupational or trade schools. College & Technical Writing 3 provides an integrated approach to language arts skills necessary for success in technical fields. The reading of technical manuals and journals, the writing of technical reports, directions, and other technical documents, and presentation of oral reports, speeches, and group projects are included in course work. Emphasis is placed on the acquisition of effective listening skills, interpersonal skills, and appropriated workplace attitudes and characteristics. All written work must be done on a word processor or computer.

College Prep. English 3 Honors - 01440

Fulfills English 3 graduation requirement

Grades: 11

Length: 2 Semesters

Credits: 1

Prerequisite: Credit in CP English 2 Honors and teacher recommendation

Recommendation: Average to excellent college-bound students

Description: College Prep English 3 Honors is designed for the study of major American writers and artists. Students will balance their reading and writing with the integration of speaking and listening activities. Through rigorous analytical reading, thinking, and writing, students will demonstrate a heightened awareness of American heritage and human diversity utilizing papers, journals, oral presentation, group projects, artistic representations, and dramatizations. ACT Reading, English, and writing skills are also emphasized.

College Prep. English 4 - 01590

Fulfills half of the English 4 graduation requirement

Grades: 12

Length: 1 Semester

Credits: ½

Prerequisite: Credit for full year of English 3 with a C or better

Recommendation: Average to excellent college-bound students

Description: The course includes college vocabulary study, methods of library research resulting in a fully documented formal term paper, review of grammar, and time permitting, practice of analytical essay, and precise writing.

College Prep. English 4 Composition Honors – AP - 01600

Fulfills half of the English 4 graduation requirement

Grades: 12

Length: 1 Semester

Credits: ½

Dual Credit: LCCC

Prerequisite: Credit for full year in CP English 3 H or teacher recommendation

Recommendation: College level students in Honors program

Description: College Prep. English 4 Honors students will develop various types of writing assignments frequently required in college: description, illustration, compare/contrast, analysis with research, and writing in response to reading. Students will review grammar/ usage concerns, continue vocabulary development, and examine literary texts to enhance analytical skills.

College Prep. English 4 Lit 2 Honors – AP - 01610

Fulfills half of the English 4 graduation requirement

Grades: 12

Length: 1 Semester

Credits: ½

Dual Credit: LCCC

Prerequisite: Must successfully complete CP English 4 H during semester 1 (C or better)

Recommendation: College level students

Description: CP 4 Honors Literature is a writing course designed to apply and hone the argumentative writing skills learned in first semester CP 4 Honors. This writing will be both from and about a wide variety of literature organized thematically. As time permits, students will also practice the writing of literature.

As a member of this class the student will gain confidence in the ability to read, write, and think critically about literature. Students will participate in cooperative groups and support each other in this exploration of literature. Students will sharpen their editing and revising skills and further develop the ability to incorporate research materials in writing.

English Essentials – 01840

Fulfills half of the English 4 graduation requirement

Grades: 12

Length: 1 Semester

Credits: ½

Prerequisite: None

Recommendation: Students who plan to attend community college

Description: This course will focus on the further development of reading and writing skills. A mixture of fiction, nonfiction, drama, and poetry will be included. A primary emphasis will be developing and enhancing the skills needed to perform well on college placement exams. In addition, grammar as it is needed to produce clear and effective writing will be stressed. Students will write effective summaries and responsive essays.

Creative Writing - 01620

Fulfills half of the English 4 graduation requirement

Grades: 11-12

Length: 1 Semester

Credits: ½

Prerequisite: Average grade of C or above in English

Recommendation: Mastery of Basic English skills

Description: Creative Writing is designed for students who are genuinely interested in writing creatively and productively and who have the discipline necessary for success in various writing projects. Individualized writing assignments relate to the student's special interest when possible. In addition to the writing of poetry and essays and the keeping of a journal, emphasis is placed on the development of plot and characterization and on the mastery of the techniques of description and dialogue, which students use in their short stories and plays. Students are encouraged to enter a variety of writing contests and to submit their work to appropriate magazines and newspapers including the Redbird Word. Mastery of English skills is essential for success in the course and the ability to use word processing for composing, writing, and editing is recommended. Creative Writing should never be substituted for a course in remedial writing.

Journalism 1 – 01900 & 01910

Grades: 11-12

Length: 2 Semesters

Credits: 1

Prerequisite: C Average in all high school CP English classes

Recommendation: Student should have an interest in writing

Description: Journalism is a one-year course. The first semester covers the fundamentals of newspaper journalism and how they apply to the high school newspaper. This includes learning the techniques of writing news stories, features, editorials, sports stories, photo captions, and headlines. Students also learn newspaper style typography and printing processes, copy editing, page layout, and press laws. Many writing assignments are required. Journalism students are responsible for reporting, writing, meeting deadlines, and publishing the Redbird Word Newspaper. In the second semester, along with writing for the student newspaper, students study and compare newspapers to other forms of media including: magazine, radio, television, motion pictures, and advertising.

** Students must successfully complete and pass the first semester of Journalism with a C or higher in order to continue second semester.

Journalism 2 Honors - 01920

Grades: 12

Length: 2 Semesters

Credits: 1

Prerequisite: Successful completion of Journalism 1 with a C or better and recommendation of instructor

Recommendation: Students should be strong writers and willing to appear on video announcements and radio broadcasts.

Description: Journalism 2 is a practical course for students to explore their interests and talents in the field of Journalism as a possible career and to become better writers. The course is a full-year class that offers students a real life experience in the writing and publishing of a newspaper. Students will edit, report, publish, and design the school newspaper the Redbird Word. Students will also study units on public relations, advertising, marketing, photojournalism, and television/radio reporting. Students will complete special assignments for area newspapers and participate in a public relations/marketing project for an area social service agency. Students are also responsible for producing video announcements and PSA's promoting school activities, as well as broadcast announcing on 89.9-2 WLCA HD.

Popular Literature - 02000

Fulfills half of the English 4 graduation requirement

Grades: 11-12

Length: 1 Semester

Credits: ½

Prerequisite: Credit for CP English 2

Recommendation: Average or above average reading proficiency

Description: Pop Lit examines such contemporary concerns as self-discovery, alienation, and family conflict through the study of assigned literature and independent reading. Understanding of required novels, stories, poetry, and essay are reflected through written reviews that indicate a student understands the independent reading. Independent reading is 50% of the overall grade. At the end of each quarter, a student's independent reading grade is determined by using the following scale of page totals:

2000 Pages = A

1000 Pages = C

1750 Pages = B

750 Pages = D-

College & Technical Writing 4 - 01430

Fulfills English 4 graduation requirement

Grades: 12

Length: 2 Semesters

Credits: 1

Prerequisite: Credit for **FULL** year of CP English 3 or College & Technical Writing 3

Recommendation: For students who plan to pursue careers in technical fields.

Description: In this class, students will conduct an in- depth career study in a field of their choice. Their research will include education requirements, pay expectations, working conditions, specific jobs in the field, and future opportunities for advancement. The course study includes preparation of detailed resumes, business letters and reports, and the sharpening of public speaking and written communication skills.

DEPARTMENT: Foreign Language

Department Head: Ruth Wimp

English as a Second Language - 02130

Grades: 9-10-11-12

Credit: 1 per year. Credit in this course may be used to fulfill the English requirement, depending on W-APT and ACCESS test scores and teacher recommendation. In that case, students could concurrently audit a regular English class.

Prerequisite: Non-native speaker of English

Recommendation: W-APT or ACCESS test scores and/or teacher recommendation

Description: Students whose native language is not English will acquire and improve their English language skills through exercises in listening comprehension, speaking, reading, and writing. Focus will also be given to vocabulary, grammar, and cultural understanding. The course is designed around the students' needs and abilities. Students will improve at a rapid rate, through individual attention and interaction with other students.

French 1 – 02210 & 02220

Grades: 9-10-11

Length: 2 semesters

Credits: 1

Prerequisite: None

Recommendation: C or better in previous semester CP English course

Description: Novice level French students learn to reproduce the sounds of the French language in a variety of communicative contexts. As the emphasis is on oral communication, French 1 students will build a practical vocabulary from the onset in order to speak about a variety of situations. In addition to learning French culture, students are introduced to various French speaking cultures and traditions around the world. Students learn to spell the vocabulary, read brief passages in French, and most importantly to communicate orally in French with their classmates and native speakers. Oral and written homework are daily expectations. Each lesson is accompanied by an interactive DVD of young French speakers filmed at various locations in the French-speaking world.

French 2 – 02180 & 02190

Grades: 10-11-12

Length: 2 semesters

Credits: 1

Prerequisite: French 1

Recommendation: C or better in French 1

Description: In French 2, students continue to refine their ability to communicate orally on a variety of daily topics. Students expand their vocabulary and grammatical knowledge through comparisons with their native languages. As the second year French student expands his/her familiarity with verb tenses, he/she is able to speak of different time frames with an expanded vocabulary. Again, the goal of French 2 is oral communication with a firm foundation in written practice and listening exercises. At the end of French 2, students will be comfortable speaking, reading, writing, and listening to basic French. In order to broaden the student's knowledge of French-speaking cultures around the world, he/she will complete a variety of projects designed to refine their analytical and presentational skills. Oral and written homework are to be expected daily. Again, an interactive DVD accompanies each lesson.

French 3 Honors - 02230

Grades: 11-12

Length: 2 Semesters

Credits: 1

Dual Credit: LCCC

Prerequisite: French 1 & 2

Recommendation: Recommendation of teacher, B or better in French 2

Description: Students in French 3 Honors become acquainted with more advanced communication techniques as they begin to master more complex grammar and vocabulary. This level of French emphasizes oral communication as well as authentic texts in French. During the course of the year, students hone their listening skills as they learn to discern the various accents of the French-speaking world and develop their own linguistic preferences in oral communication. Grammatical structures provide an important component of study at this level as all major verb tenses and pronoun forms are mastered. French culture and history provide an important backdrop to the student's linguistic development while they learn about such topics as ecology and globalization. Preparation for class involves oral and written practice: students face hypothetical situations in which they use French to analyze problems, seek solutions, discuss options, and think critically. Students accomplish several projects, which they present to the class throughout the academic year.

French 4 Honors - AP - 02240

Grades: 12

Length: 2 Semesters

Credits: 1

Dual Credit: LCCC

Prerequisite: French 1, 2, & 3

Recommendation: Recommendation of teacher, B or better in French 3

Description: Students in French 4 Honors/ AP begin to perfect their oral communication skills through the analysis and discussion of authentic texts and other media. Students at this level complete an intensive review of French grammar and linguistic structures, which prepares them for the demands of both French and English courses at the university level. Various literature, including prose, poetry, and lyrical media, provides a context in which to expand the students' knowledge of French syntax and communicative methods. Emphasis is placed on a student's ability to summarize, analyze, and evaluate a variety of situations and abstract concepts while speaking French. Critical discussions, essays, role-playing and original dialogues will be prepared in French for oral and/or written presentation, further reinforcing the student's ability for collegiate achievement. Students research famous historical and literary figures, expand their knowledge of French history, and analyze current political and cultural events. Suitable French films provide excellent listening practice.

As an Advanced Placement Course, outstanding students will have the opportunity to take the College Board AP Test in the spring for college credits, which are recognized by most colleges in the United States. Most colleges also look with favor upon applicants who have AP classes on their transcript.

German 1 – 02300 & 02310

Grades: 9-10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: None

Recommendation: C or better in previous semester CP English course

Description: Students will begin to understand German they hear by listening to CD's and viewing videos of native German speakers in real situations. They will learn to speak German by participating in communicative activities with their classmates. To learn vocabulary, students will study pictures captioned in German, rather than translating from English. In this way, students begin learning to "think in German." Students will learn grammatical concepts through situational activities and explicit instruction. They will read short authentic German texts, such as advertisements, and write sentences about their daily lives. Students will learn about everyday German culture.

German 2 - 02320

Grades: 10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: German 1

Recommendation: C or better in German 1

Description: Students will continue developing their abilities to understand and use written and spoken German, using classroom activities similar to those of German 1. They will delve deeper into more complex grammatical structures and extend their vocabulary. They will read short texts and books appropriate to their level. They will write paragraphs about their daily lives. Students will continue learning about German culture.

German 3 Honors - 02330

Grades: 11-12

Length: 2 Semesters

Credits: 1

Dual Credit: LCCC

Prerequisite: German 1 & 2 and teacher recommendation

Recommendation: Successful completion of German 2

Description: Students will continue developing their abilities to understand and use written and spoken German. They will learn to express their opinions in German, and will learn more abstract vocabulary. They will learn some of the finer points of grammar. Students will study the geography of Germany, Austria, and Switzerland. Students will read several short mystery stories. Students in the third level of German also have an option to take the course for dual credit with LCCC. Students must pass the entry-level English reading comprehension exam given by LCCC to enter their program. Students can accumulate 8 hours of college credit at LCCC.

German 4 Honors AP - 02340

Grades: 12

Length: 2 Semesters

Credits: 1

Dual Credit: LCCC

Prerequisite: German 1, 2 & 3 and teacher recommendation

Recommendation: Successful completion of German 3

Description: Students will continue developing their abilities to understand and use written and spoken German. Students will express their opinions, both orally and written. Students will review and refine the grammar they learned in the previous German courses. Students will read several short books in German, including at least one of their own choosing. Students may study some aspect of German pre-20th century history. As an Advanced Placement Course, outstanding students will have the opportunity to take the College Board AP Test in the spring for college credits, which are recognized by most of the colleges in the United States. These same colleges also look with favor upon applicants who have AP classes on their transcripts. Students in the fourth level of German also have an option to take the course for dual credit with LCCC. Students must pass the entry-level English reading comprehension exam given by LCCC to enter their program. Upon successful completion of the fourth level class, they will have accumulated 16 credits in German, which may be transferred to other universities. Students are advised to verify acceptance of these transfer credits by their chosen university.

Spanish 1 - 02510

Grades: 9-10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: C or better in previous semester CP English course

Recommendation: Must pass semester to remain in course

Description: Spanish 1 students learn to use the language to greet other people, to give and receive information, and to talk about daily activities. To practice conversation skills, they listen to the teacher or recording of native speakers and complete various tasks. Students also talk to each other using mini-conversations designed to help them learn the new words and express their own ideas about school and home life, food, and sports. Through articles in the text, videos, novels, and internet resources, students study the culture and geography of the Spanish-speaking world. Homework requirements include vocabulary memorization, written practice exercises, and special projects. Class participation is emphasized and required.

Spanish 2 - 02520

Grades: 9-10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: C or better in Spanish 1 or teacher approval

Recommendation: Must pass first semester to remain in course

Description: Spanish 2 is designed to provide continued development of the skills of language: listening, speaking, reading, and writing. The course begins with a review of the major structures studied in Level 1. Students continue to practice the language in simulated realistic situations. Activities concentrate on topics relevant to the students' own lives and interests. Through articles in the text, videos, novelas, and internet resources, students study the culture and geography of the Spanish-speaking world. Grammar exercises and pronunciation practice are essential. Studying the customs and geography of Hispanic countries provide insights into the character of the Hispanic people.

Spanish 3 Honors - 02530

Grades: 10-11-12

Length: 2 Semesters

Credits: 1

Dual Credit: LCCC

Prerequisite: Recommendation of Spanish 2 instructor

Recommendation: C or better in Spanish 2 or teacher approval

Description: Spanish 3 is designed to assist students in acquiring language proficiency while reviewing and broadening their grammar foundation. Grammatical structures are an important component of study. Students also increase their reading, writing, listening and speaking skills via various activities throughout the course. Additionally, students work independently to increase their vocabulary base and study cultural figures and events. Students in the third level of Spanish also have an option to take the course for dual credit with LCCC. Students must pass the entry-level English reading comprehension exam given by LCCC to enter their program. Upon successful completion of the third level class, they will have accumulated 8 credits in Spanish, which may be transferred to other universities. Students are advised to verify acceptance of these transfer credits by their chosen university.

Spanish 4 Honors – AP – 02540 & 02550

Grades: 11-12

Length: 2 Semesters

Credits: 1

Dual Credit: LCCC

Prerequisite: Recommendation of Spanish 3 Instructor

Recommendation: Have C or better at the end of first semester to remain in the course

Description: Students in this class apply the skills of the three previous years of study. Advanced grammar activities strengthen the students' command of spoken and written Spanish. Class members develop such skills as narrating past, present, and future experiences and the ability to express feelings, opinions, and hypotheses. Oral activities develop the students' abilities to carry on more challenging conversations and to communicate in basic survival situations. Students read a sampling of major Spanish literary works to strengthen skills. Critical thinking activities offer students opportunities to analyze, both orally and in writing, various topics. A strong emphasis will be placed on the students' spoken fluency and interpretation of Spanish language.

As an Advanced Placement Course, outstanding students will have the opportunity to take the College Board AP Test in the spring for college credits, which are recognized by most of the colleges in the United States. These same colleges also look with favor upon applicants who have AP classes on their transcripts.

Students in the fourth level of Spanish also have an option to take the course for dual credit with LCCC. Students must pass the entry-level English reading comprehension exam given by LCCC to enter their program. Upon successful completion of the fourth level class, they will have accumulated 8 credits in Spanish, which may be transferred to other universities. Students are advised to verify acceptance of these transfer credits by their chosen university.

DEPARTMENT: Mathematics

Division Chair: Laura Lauschke

Department Head: Natalie Rhea

Math graduation requirements: All students must have 1 year of Algebra 1 and 1 year of Math Geometry. Successful completion of Algebraic Concepts 1 and 2 grant 2 years of math credit and award completion of Algebra 1.

Algebra 1 – 0391T

Grades: 9

Length: 2 Semesters

Credits: 1

Prerequisite: None

Recommendation: Placement dependent on Freshmen Placement Test Score, Explore Score, Grade in 8th grade Math Class, and/or Teacher Recommendation

Description: In Algebra 1, topics are aligned to the Common Core State Standards and students will develop their number and operations skills to extend their knowledge of rational numbers by using symbolic, graphic, and numeric representations as they solve equations and inequalities. Students will use table, graphs, and verbal and symbolic rules to describe linear, quadratic, and exponential functions. Students will develop problem-solving skills to solve equations using properties to justify their steps. They will use Algebra to develop formulas for geometric measurement and to describe statistical relationships (lines of best fit). Students will make decisions about appropriate scales with graphical representations of data. Students will use perimeter and area formulas, and use unit analysis to help set up proportions and other equations.

Algebra 2 - 03915

Grades: 10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: Geometry or Geometry Honors

Recommendation: Minimum grade of C, 75% in Algebra 1 (An Algebra grade lower than 75% requires an Algebra 1 teacher recommendation) or successful completion of Algebra Concepts 3

Description: **Students are required to have a TI-84 graphing calculator.** The Algebra 2 course will continue and expand upon the ideas in the Algebra 1 course and Geometry. In Algebra 2, students will: study matrices and complex numbers; begin a study of theoretical distribution, including the bimodal and normal; use multiple representations in studying polynomial, rational, radical, logarithmic, and periodic functions; apply principles of translating in the coordinate plane to functions and conic sections; use polynomials to express areas and volumes of figures and polynomial equations to find missing measures; explore successive approximations and the concept of time; learn how to use parallel measuring scales of degrees and radian; use variety of problem solving techniques to explore real world problems; further their understanding and ability to prove concepts not only by deduction but also by using mathematical induction; extend their knowledge of the families of functions to polynomial, logarithmic, and trigonometric functions. The course will also incorporate the use of a **graphing calculator** to solve problems.

Algebra 2 Honors - 03925

Grades: 10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: Geometry or Geometry Honors

Recommendation: A grade of an A or B in Algebra 1, A or B in Geometry or Geometry Honors, and Teacher Recommendation. **TI-84 graphing calculator is needed for course work.**

Description: **Students are required to have a TI-84 graphing calculator.** The Honors Algebra 2 includes all topics from Algebra 2 with an emphasis on discrete math and trigonometry. This course will incorporate the use of a **graphing calculator** to solve problems.

Algebra 3 - 03928

Grades: 11-12

Length: 2 Semesters

Credits: 1

Prerequisite: Algebra 2 or Algebra 2 Honors

Recommendation: Algebra 2 or passing grade in Algebra Concepts 3. **TI-84 graphing calculator is needed for course work.**

Description: **Students are required to have a TI-84 graphing calculator.** The Algebra 3 course will further develop the Algebra 2 skills for students entering the Pre-Calculus honors course. This course can be thought of as a bridge between Algebra 2 and Pre-Calculus Honors. This course will cover but is not limited to the following: review of functions, equations, and graphs; review of parent functions, exponents, factoring, and rationale expressions; unit covering probability and statistics; period functions and trigonometry; trigonometric identities and equations.

Algebraic Concepts 1 – 0430T

Grades: 9

Length: 2 Semesters

Credits: 1

Prerequisite: None

Recommendation: None

Description: Algebra Concepts 1 consists of the same material and that Algebra 1 covers, except the material is presented over a two-year period in conjunction with Algebra Concepts 2. Successful completion of this course is equivalent to the 1st semester of Algebra 1. Topics are aligned to the Common Core State Standards and include students developing their number and operation sense, expanding their knowledge of rational numbers by using symbolic, graphic, and numeric representations as they solve equations and inequalities and work with functions. Students will use slope and graph linear functions.

Algebraic Concepts 2 - 03932

Grades: 10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: Algebraic Concepts 1

Recommendation: Pass both semesters of Algebraic Concepts 1

Description: Algebra Concepts 2 consists of the same materials that Algebra 1 covers, except the material is presented over a two-year period. Topics are aligned to the Common Core State Standards and include exponents, exponential functions, polynomial, factoring, quadratic equations and functions, radical expressions and equations, and rational expressions and functions. Successful completion of this course is equivalent to the 2nd semester of Algebra 1.

Algebra Concepts 3 - 03936

Grades: 11-12

Length: 2 Semesters

Credits: 1

Prerequisite: Geometry

Recommendation: Any student with a grade of D in Algebra 1, grade of C or D in Algebra Concepts 2, or grade of C or D in Geometry. **TI-84 graphing calculator is needed for course work.**

Description: For juniors, Algebra Concepts 3 is an intermediate course between Algebra 2 and Geometry. For seniors who have not taken Algebra 2, this class is a good prep class for College Algebra. Students will continue to expand upon the ideas in the Algebra 1 and Geometry course. The course reviews fundamentals of algebra, applied geometry, and right triangle trigonometry including algebraic expressions and operations, equations, exponents, radicals, units of measure, formulas, approximate numbers and calculator operations. This course also explores matrices, exponentials, logarithms, trigonometric functions and their graphs, additional topics in geometry of right and oblique triangles, and complex numbers.

Pre-Calculus Honors – 03980 & 03990

Grades: 11-12

Length: 2 Semesters

Credits: 1

Prerequisite: Algebra 2 or Algebra 2 Honors

Recommendation: A or B in Algebra 2 or Algebra 2 Honors and Teacher Recommendations. **TI-84 or TI-Nspire graphing calculator is needed for course work.**

Description: **Students are required to have a TI-84 or TI-Nspire graphing calculator.** The Pre-calculus course brings together all prior Algebra and Geometry concepts. The course provides students the skills and ideas necessary for a seamless transition to calculus. Students in Pre-calculus will cover the topics of: functions and graphs; polynomial, power, and rational functions; exponential, logistic, and logarithmic functions; trigonometric functions; analytic trigonometry; applications of trigonometry; systems and matrices; analytic geometry in two and three dimensions; discrete mathematics. The use of graphing technology is incorporated throughout the course.

Calculus AB Honors AP – 04050 & 04060

Grades: 11-12

Length: 2 Semesters

Credits: 1

Dual Credit: St. Louis University

Prerequisite: Pre-Calculus Honors

Recommendation: A n A or B in Pre-Calculus Honors and Teacher Recommendations. **TI-84 or TI-Nspire graphing calculator is needed for course work.**

Description: **Students are required to have a TI-84 or TI-Nspire graphing calculator.** This course is designed to develop students' understanding of the concepts of Calculus and provide experience with its methods and applications. The concepts, results, and problems, will be expressed geometrically, numerically, analytically, and verbally. Students should understand the meaning of the derivative in terms of rate of change and local linear approximations; work with functions represented graphically, numerically, analytically, or verbally, and should understand the connections among these representations. Students should understand the meaning of the definite integral both as a limit of Riemann sums and as a net accumulation of a rate of change, and understand the relationship between the derivative and integral. They should be able to model problem situations with functions, differential equations or integrals, and communicate both orally and in written form, represent differential equations with slope fields, solve separable, differential equations analytically, and solve differential equations using numerical techniques such as Euler's method. Students are encouraged to take the AP Exam: Calculus AB.

Calculus BC Honors – AP - 04070

Grades: 12

Length: 2 Semesters

Credits: 1

Dual Credit: St. Louis University

Prerequisite: Pre-Calculus Honors

Recommendation: A or B in Pre-Calculus Honors and Teacher Recommendation. **TI-84 or TI-Nspire graphing calculator is needed for course work.**

Students are required to have a TI-84 or TI-Nspire graphing calculator. All of the topics in Calculus AB will be covered in addition; students should be able to interpret convergence and divergence of series using technology to help solve problems. They should be able to represent functions with series and find the Lagrange error bound for Taylor polynomials. Students are encouraged to take the AP Exam: Calculus BC.

Geometry - 03870

Grades: 10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: Algebra 1 or Algebra Concepts 1 and Algebra Concepts 2

Recommendation: Minimum grade of D in Algebra Concepts 2 or Algebra 1 **TI-84 graphing calculator, compass, and protractor are needed for course work.**

Description: This course introduces a variety of new geometric concepts and vocabulary while incorporating prior algebra knowledge. From the beginning, students will learn the basic tools of geometry and they will use these tools throughout the course for reasoning and proof, constructions, working with coordinate plane, applications of linear relationships, and geometric probability. Students will also work with the properties of lines, including parallel and perpendicular, triangles, quadrilaterals, similarity, right angle trigonometry, transformations, and circles. Application of the formulas for perimeter and area of composite, regular, and irregular plane shapes and the development of formulas for the volume of prisms, cylinders, pyramids, and cones will also be covered. Students will practice problem-solving techniques with a variety of real world problems. Stress will be placed upon the common core standards, the importance of students being able to use precise mathematical terminology, and the importance of being able to use both exact measures and rational approximations. Calculators, compasses, and protractors will be necessary to solve geometric concepts.

Geometry Honors – 0400T

Grades: 9, 10

Length: 2 Semesters

Credits: 1

Prerequisite: Algebra 1

Recommendation: 9th grade placement dependent on Freshmen Placement Test Score, Explore Score, Grade in 8th grade Math Class, or Teacher Recommendation. 10th grade placement dependent on A in Algebra 1 and Teacher Recommendation. **TI-84 graphing calculator, compass, and protractor are needed for course work.**

Description: The Honors Geometry includes all topics from geometry aligned to the Common Core State Standards at a more rigorous pace using advanced assessments and includes additional projects and activities.

Statistics - 03880

Grades: 12

Length: 2 Semesters

Credits: 1

Prerequisite: Algebra 1, Geometry, Algebra 2, and have taken the PSAT test

Recommendation: Minimum grade of C in Algebra 2 or Algebra Concepts 3

Description: **Students are required to have a TI-84 graphing calculator.** The Statistics course brings together all prior Algebra and Geometry concepts. The course provides students the skills and ideas necessary for a seamless transition to a college entry-level mathematics course. Students in Statistics will cover various topics including: survey design, data display and descriptive values, probability, confidence intervals, hypothesis testing, correlation and regression, Chi-Square test, the F – distribution, and nonparametric tests.

Trigonometry - 03882

Grades: 12

Length: 1 Semester

Credits: ½

Prerequisite: Algebra 1, Geometry, Algebra 2, and have taken the PSAE test

Recommendation: Minimum grade of C in Algebra 2 or Algebra Concepts 3

Description: Students are required to have a TI-84 graphing calculator. The Trigonometry course brings together prior Algebra and Geometry concepts. The course provides students the skills and ideas necessary for a seamless transition to a college entry-level mathematics course. Students in Trigonometry will cover the topics of: trigonometric functions in acute, right, and obtuse triangles, radian measure and circular functions, graphs of circular functions, trigonometric identities, inverse circular functions and trigonometric equations, and applications of trigonometry.

DEPARTMENT: Music

Directors: Alyssa Cudney, Bev Kramer & Laura Plummer

Music Theory/Music Technology - 04690

Grades: 9-10-11-12

Length: 1 Semester

Credits: ½

Prerequisite: None

Recommendation: Independent Study must have successfully completed one semester of Music Tech. and have teacher recommendation.

Description: Music Theory/Music Technology is open to all students, regardless of musical background. Students will spend the first half of the semester learning basic Music Theory through lecture and by using Music Ace Maestro, Alfred's Music Theory, Musition and Auralia. Composition and note reading will also be taught using Sibelius. The second half of the semester students will continue studying Music Theory, but will also include music sequencing and recording projects using Sony Acid Pro. Independent Study (students who have successfully completed one previous semester of this course) will be expected to attend some outside of school activities.

General Chorus – 04530 & 04540

Grades: 9-10-11-12

Length: 1 Semester

Credits: 1

Prerequisite: None

Recommendation: None

Description: General Chorus is open to all students. Students gain a practical, usable knowledge of vocal skills and music reading through sight-singing, written assignments, listening assessments, rehearsal, and performance of 3 part and 4-part music representative of high school repertoire. **Students are responsible for partial expense of costumes. Students are required to attend one community fine arts music program and provide a written critique each semester. Students are expected to participate in all fundraisers. All students are expected to have professional appearance (ie hair color, no jewelry, no nail polish, etc.)**

Mixed Advanced Chorus – 04720 & 04730

Grades: 9-10-11-12

Length: 2 semesters

Credits: 1

Prerequisite: Previous choral experience, coupled with auditions, and teacher recommendation.

Recommendation: Students must be able to sing his/her vocal part independently of a SATB choral arrangement at an audition for the director. Students must be able to demonstrate musical knowledge and sight-sing on solfege.

Description: Students in the Mixed Advanced Choir will be challenged to perform music at the intermediate level of difficulty, having learned the basics of good vocal production, breathing techniques, and intonation as their voices continue to mature. Students will continue to study sight-singing, written assignments, and listening assignments. Students are required to participate in a minimum of one fine arts music programs, with written evaluation during each semester. Students are required to perform in a minimum of 1 concert per semester, participate in IHSA Solo & Ensemble Contest, ISHA Organization Contest. **Students are responsible for partial expense of costumes required for the ensemble and all audition / contest fees. Students are expected to participate in all fundraisers. (\$25.00 costume fee/ semester) All students are expected to have professional appearance (ie hair color, no jewelry, no nail polish, etc.)**

Ladies Chorale – 04725 & 04726

Grades: 10-11-12

Length: 2 Semesters

Credits: 1

Service Hours: 10/Semester

Prerequisite: Previous choral experience, coupled with auditions, and teacher recommendation

Recommendation: Students must be able to sing her vocal part independently of a SSAA choral arrangement at an audition for the director. Students must be able to demonstrate musical knowledge and sight-sing on solfege.

Description: Students in the Ladies Chorale will be challenged to perform music at the intermediate level of difficulty, having learned the basics of good vocal production, breathing techniques, and intonation as their voices continue to mature. Students will continue to study sight-singing, written assignments, and listening assignments. Students are required to perform in a minimum of 1 concert per semester, participate in IHSA Solo & Ensemble Contest, and IHSA Organizational Contest. Students are required to attend two community fine arts music programs, with written evaluation during each semester. **Students are responsible for partial expense of costumes required for the ensemble, and all audition / contest fees. **Students are expected to participate in all fundraisers. (\$25 costume fee/ semester) All students are expected to have professional appearance (ie hair color, no jewelry, no nail polish, etc.)**

Concert Choir (Non-Honors) – 04470 & 04480

Grades: 10-11-12

Length: 2 Semesters

Credits: 1

Service Hours: 10/Semester

Prerequisite: Previous choral experience, audition, and teacher recommendation

Recommendation: Students are able to sight-sing material using solfege, demonstrate music theory knowledge, and sing his/her vocal part independently in SATB repertoire. Students must meet audition requirements by the director.

Description: Students continue to refine their knowledge and experience of advanced choral repertoire, including 5-8 part music. Students are required to participate in all concerts, including IHSA Solo & Ensemble and IHSA Organizational Contests. Students are required to attend two community fine arts music programs, with written evaluation during each semester. Students will assimilate a portfolio containing activities, projects, listening assessments, evaluation of fine arts programs, basic music terminology, scale structure, and chord progressions. Students will be assessed on an individual knowledge of vocal reading skills and music reading through sight-singing, written assignments, listening assessments, and rehearsal and performance. Membership in Concert Choir also offers "Celebrations," a non-credit ensemble that meets after school. Membership in Concert Choir is required. Membership in Celebrations is by audition

only. Celebrations perform at numerous concerts, competitions, festivals, and community events throughout the year. **Students are responsible for partial expense of costumes for the ensemble, and all audition and contest fees.**
***Students are expected to participate in 2 major fundraising projects per semester. (\$25 costume fee / semester)**
All students are expected to have professional appearance (ie hair color, no jewelry, no nail polish, etc.)

Concert Choir Honors – 04550 & 04560

Grades: 11-12

Length: 2 Semesters

Credits: 1

Service Hours: 10/Semester

Prerequisite: Previous choral experience, coupled with auditions, and teacher recommendation

Recommendation: Students are able to sight-sing material using solfege, demonstrate music theory knowledge, and sing his/her vocal part independently in SATB repertoire. Students must also meet the audition requirements of the director.

Description: Students continue to refine their knowledge and experience of advanced choral repertoire, including 5-8 part music. Students are required to participate in all concerts, including ILMEA, IHSA Solo & Ensemble and IHSA Organizational Contests. Students are required to attend two community fine arts music programs, with written evaluation during each semester. Students will assimilate a portfolio containing activities, projects, listening assessments, evaluation of fine arts programs, basic music terminology, scale structure, and chord progressions. Students will be assessed on an individual knowledge of vocal reading skills and music reading through sight-singing, written assignments, listening assessments, and rehearsal and performance. Membership in Concert Choir also offers "Celebrations," a non-credit ensemble that meets after school. Membership in Concert Choir is required. Membership in Celebrations is by audition only. Celebrations perform at numerous concerts, competitions, festivals, and community events throughout the year. **Students are responsible for partial expense of costumes for the ensemble, and all audition and contest fees.**

***Students are expected to participate in 2 major fundraising projects per semester. (\$25 costume fee/ semester)**
All students are expected to have professional appearance (ie hair color, no jewelry, no nail polish, etc.)

Band 2 (Symphonic Band) – 04370 & 04380

Grades: 9-10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: Previous playing experience – a minimum of 3 years or by audition

Recommendation: Present or previous music teacher recommendation

Description: During first semester, this class is offered as an alternative to Marching 100. During second semester, this band increases in size to 70-80 students. As the middle level band, emphasis is placed on continued development of tone quality and intonation, listening and assessment skills. The Symphonic Band performs in a minimum of four public concerts each year with attendance and participation required. All band members will participate in Redbird Rhythm Pep Band with required performances. Participation in IHSA Solo & Ensemble Contest is required. This ensemble requires rehearsals and performances outside of the school day. **There are some student costs for concert attire, audition/contest fees, and basic instrument supplies.**

Band 3 (Marching 100, Wind Symphony/Symphonic Band) – 04390 & 04400

Grades: 9-10-11-12

Length: 2 Semesters

Credits: 1 (Marching 100 will waive one semester of required Physical Development)

Prerequisite: Marching 100: Previous playing experience – a minimum of 3 years or teacher recommendation

Wind Symphony/Symphonic Band: Audition

Recommendation: Present or previous music teacher

Description: First quarter is Marching 100, an elite group of highly skilled students presenting precision and pageantry shows at all home football games, four or more marching competitions, and many parades. Grades are earned through daily participation, daily written, playing, and marching assessments, and participation in all performances. Marching 100 is also open to non-musical students: students with no musical experience are eligible to participate as members of the Flag Line. Membership is by audition; no experience necessary. Second quarter splits the band into Symphonic Band and Wind Symphony based on a u d i t i o n p l a c e m e n t. All band members will participate in Redbird Rhythm with required performances. Second semester is Symphonic Band/Wind Symphony, again, with membership determined by the previous audition. Advanced music performance and study is the focus of this group with attendance and participation required. Participation in IHSA solo & ensemble and organizational contest is required. In addition to the performances and playing requirements, students will continue development of listening and assessment skills through evaluation of their own ensemble as well as fine arts programs outside of AHS. Participation limits can change year to year. This ensemble requires rehearsals and performances outside of the school day. **There are some student costs for concert attire, audition/contest fees, and basic instrument supplies.**

Band 3 Honors (Marching 100, Wind Symphony) – 04570 & 04580

Grades: 11-12

Length: 2 Semesters

Credits: 1 (Marching 100 will waive one semester of required Physical Development)

Prerequisite: Marching 100: Previous playing experience – a minimum of 3 years or teacher recommendation

Wind Symphony: Audition

Recommendation: Present or previous music teacher

Description: Honors Band is limited to a selected group of instrumentalists. Students must be in Marching 100 first semester and successfully audition into wind symphony second semester. Requirements will include all those for Non-Honors Band 3, plus the following: advanced performance of challenging literature; written assessments of performances; research into current repertoire composers or instruments; study of performance practices of individuals and ensembles appropriate for the variety of cultural, ethnic, and historic periods in the band program; required audition for the ILMEA District VI Festival; and required participation in IHSA Solo & Ensemble Contest. All band members will participate in Redbird Rhythm Pep Band with required performances. Students are also required to participate in IHSA organizational contest. Private instruction will be highly encouraged, but not required. Instrumentation limits can change from year to year. **There are some student costs for concert attire, audition/contest fees, and basic instrument supplies.**

NOTE: Jazz studies are offered as non-credit ensembles. Membership in a music class at AHS is required. Membership is by audition or teacher recommendation

Orchestra 1, Concert Orchestra – 04610 & 04620

Grades: 9-10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: Previous playing experience or teacher recommendation

Recommendation: Present or previous teacher

Description: Concert Orchestra is a string orchestra that emphasizes the development and improvement of playing techniques, facility in various positions, note reading, basic music theory, and rhythmic stability. Students must have prior experience playing a string instrument. Attendance is required at all after school rehearsals and concerts. No audition required. **Students using a school instrument must pay a \$40 rental fee.** For more information see Mrs. Plummer in B130 or call 474-6967.

Orchestra 2, Symphonic Orchestra – 04650 & 04660

Grades: 9-10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: Audition for the high school orchestra director

Recommendation: Present or previous teacher

Description: Symphonic Orchestra is a full orchestra ensemble of select musicians. An audition is required to enter Symphonic Orchestra. The goal of this ensemble is to achieve a more advanced level of performance. Students study and perform challenging literature, do more advanced music theory and provide written assessments of performances. There is a very high expectation placed on the students' playing ability and work ethic. The Symphonic Orchestra performs at least six concerts a year, including the IHSA Organization Contest. Symphonic Orchestra students are encouraged to audition for and participate in the ILMEA District 6 Festival and the IHSA Solo and Ensemble Contest. Attendance is required at all after school rehearsals and performances. Students must be signed up for Symphonic Orchestra as a class in order to participate in the ensemble. **Students using a school instrument must pay a \$40 rental fee.** For more information see Mrs. Plummer in B130 or call 474-6967.

Orchestra 2, Symphonic Orchestra Honors – 04590 & 04600

Grades: 11-12

Length: 2 Semesters

Credits: 1

Prerequisite: Audition for the high school orchestra director

Recommendation: Present or previous teacher

Description: The Honors Symphonic Orchestra is a full orchestra ensemble of select musicians. Honors Symphonic Orchestra students are expected to perform at the college level. Students study and perform challenging literature, do more advanced music theory and provide written assessments of performances. The Symphonic Honors Orchestra students will perform at least six concerts a year including the IHSA Organization Contest. Students are also required to take an ILMEA playing test, participate in the IHSA Solo and Ensemble Contest and submit written evaluations each year of fine arts programs outside of the AHS orchestra program. Attendance is required at all after school rehearsals and performances. Students must be signed up for Symphonic Honors Orchestra as a class in order to participate in the ensemble. **Students using a school instrument must pay a \$40 rental fee.**

NOTE: The Alton High School Music Department also offers the following no credit extracurricular orchestra activities:

Alton High School Chamber Strings is open to any student enrolled in the orchestra program. They meet every Wednesday, 3:15 to 4:00 in B130, September through May. The Chamber Strings performs in the Alton area for various community functions like weddings, banquets, and special concerts. For more information contact Mrs. Plummer at 474-6967.

The Pit Orchestra performs with the annual spring musical. This is an audition ensemble for members of the AHS band and orchestra programs. Students are expected to dedicate quite a bit of time with this ensemble which meets twice a week, March through mid-April and every night the last two weeks leading up to the musical performances. For more information see Mrs. Plummer in B130 or call 474-6967.

DEPARTMENT: Physical Development/Health

Department Head: Joe Hook

Health - 02640

Graduation Requirement

Grades: 10-11-12

Length: 1 Semester

Credits: ½

Prerequisite: None

Recommendation: Not recommended for freshman

Description: Instruction includes units on disease, sexually transmitted diseases, first aid, mental health, nutrition, human growth and development, drugs, cardiovascular, respiratory, and skeletal systems. Health is a graduation requirement. Summer school Health will only be offered to students in grades 10, 11, and 12. Cost for First Aid/ CPR is \$10.00.

General Physical Development – 02780 – 02810

Graduation Requirement: 3 semesters

Grades: 9-10-11-12

Length: 9 weeks

Credits: ¼ credit

Prerequisite: None

Recommendation: Introduction to Physical Development

Description: Physical Development provides students with opportunities for physical development through selected activities in physical fitness, individual/dual activities, dance, and group/team activities. A physical fitness test is administered once each quarter, including the summer term. Physical Development is coeducational, and required of all students in the ninth, tenth, and eleventh grades unless they are medically excused. If a student is granted a medical excuse from a physician that prohibits him/her from meeting the requirements of the Physical Education curriculum, that student will be dropped from PE and no credit will be issued; however, the requirement for graduation will be met by issuing a medical PE on their transcript. Remedial students are scheduled in regular PE classes. The grade received counts toward the student's grade point average. There is a strict dress code for physical development. Students are required to wear uniforms for PE. **These uniforms are sold at registration or during the first week of school. They may be obtained from the PE offices. Cost is \$20.00 for one shirt and one pair of shorts. If a student loses his/her uniform, replacements are available. (\$10 for a shirt, and \$10 for shorts).** Athletic shoes are also required. No sandals, boots, or slip on shoes are allowed. Jewelry is not to be worn in PE class other than wedding bands or small post earrings. Nose, tongue, eye brow, and lip piercings, and hoop or dangling earrings are not allowed. Students must change clothes immediately before the class, and following the class. Students who are not properly dressed for class will not be allowed to participate in the daily activity. No dress days are considered non-participation days and can cause a student to fail. There is an opportunity to make these days up by consulting the student's teacher. Students are allowed to choose certain activities.

Department: Science

Division Chair: Scott Schlapkohl

Department Head: Angela Laaker

Graduation Requirement: 1 year of Biology or Biology Honors plus one additional year of science. (Additional courses may be required for college admission beyond Alton High School.)

Anatomy and Physiology Honors – 0262H & 0263H

Grades: 10-11-12

Length: Two Semesters

Credits: 1

Prerequisite: Students need a C or better in Biology I and Chemistry I

Description: Physiology is a detailed and more in-depth study of the structures and functions of the human body. It is structured as a high performance course in utilizing a college textbook. This course is strongly recommended for students going into medicine or other health related fields. This course will include three field trips, one to Washington University Medical School, Logan College of Chiropractic, and the SLU Cadaver Lab. Each student will prepare and present a research paper and a medical career project. Field trips will require extra cost. Dissection is part of the class, and participation is required. **There is a \$5.00 fee for this class.**

Biology 1 – 0475T (9th grade only) 04750 (grades 10-12)

Grades: 9, 10, 11, 12

Length: 2 Semesters

Credits: 1

Prerequisite: None

Recommendation: None

Description: This course will introduce the student to living organisms and their role in nature. Students will experience hands-on laboratory activities and lecture presentations. The following major units of study will be covered: the science process, chemistry, cell structure and function, genetics, evolution, classification with an overview of the five kingdoms, and ecology. This course is required for graduation.

Biology 1 Honors – 0479T

Grades: 9

Length: 2 Semesters

Credits: 1

Prerequisite: An A in 8th grade science, teacher recommendation and a minimum score of 78 on placement test.

Recommendation: High interest in science, possess high order thinking skills and self-motivation

Description: This course will introduce the student to living organisms and their sole role in nature: however, the curriculum is more challenging than Biology 1 (non-honors). Students will have many hands-on and problem solving activities. Molecular biology, cells, genetics, evolution, and other areas will be emphasized. **Each student will prepare a research paper and a research project.** Students are required to compete in the Science Fair. Students will complete an insect project. Students will take one field trip. **Special projects will require materials.** Field trips will require an extra cost.

Biology II Honors-AP – 0476H

Grades: 12 (11th only if enrolled in Physics)

Length: 2 Semesters

Credits: 1

Prerequisite: Successful completion in Biology 1 H, Chemistry 1, and Physics 1 or concurrent enrollment in Physics 1

Recommendation: High interest in science and self-motivated

Description: This course is the equivalent of a college introductory biology class for biology majors. Laboratory experiments and lectures will provide an in-depth study of the cell, genetics, biotechnology, organic molecules, evolution, ecology, and the adaptations of plants and animals. Additional activities may include individual and group projects, water quality and environmental assessment, field trips, problem based learning projects and community based learning activities. Prospective Biology 2 students must pick up their summer assignment packet during the week of spring finals from the main office. The packet takes approximately twenty hours to complete and is due the first week of school in the fall. Field trips may require extra cost. Students will be encouraged to take the AP test in the spring. **There is a \$15.00 fee per semester (\$30.00 for the year).**

Chemistry 1 - 04850

Grades: 10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: Sophomores shall have a C or better in Algebra 1 or an A in Algebraic Concepts 1; Juniors & Seniors shall have a C or better in Algebra 1 or Algebraic Concepts 2 and have passed IPS

Recommendation: Geometry or concurrent enrollment

Description: **A scientific calculator will be required for this course.** The first year introductory course is a study of: (a) the importance of chemistry in the fields of science, health, engineering, and the environment, (b) the organization of chemistry based on the modern theory of matter and energy, (c) the use of laboratory experimentation to achieve understanding of chemical concepts and theory. Students learn through lectures, discussions, demonstrations, audio-visual equipment, reports, and lab experiments. Emphasis is placed on achieving problem-solving skills, proper lab techniques, and safety.

Chemistry 1 Honors – 04870 & 04880

Grades: 10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: Grade of B or better in Biology 1 and Algebra 1. Students with an A in Algebraic Concepts 1 or other students not meeting the above prerequisites may enter the course only with approval of the Chemistry 1 H instructor

Recommendation: B or better in Algebra 1 and should be enrolled in Geometry or higher

Description: **A scientific calculator is required for this course.** This course will introduce the student to modern chemical theory and practice. Students will have the opportunity to develop a true understanding of chemical concepts through lectures, class discussions, audio-visual materials, and lab experiments. Students will be taught proper laboratory techniques and procedures and the correct use of laboratory equipment. Considerable time will be devoted to the development of problem solving skills, in order to prepare students for AP or college level chemistry.

Chemistry 2 Honors – AP – 0489H

Grades: 12 (11th only if enrolled in Physics)

Length: 2 Semesters

Credits: 1

Dual Credit: St. Louis University (Chemistry 163/165 and Chemistry 164/166)

Prerequisite: An A in Chemistry 1 or A or B in Chemistry 1 Honors; C or better in Algebra 2, Geometry

Recommendation: Enrolled in Algebra 3/Geometry/Trigonometry or higher level math course

Description: A scientific calculator is required for this course along with a composition notebook. This is a college chemistry course intended to prepare students for careers in natural science, health science, and engineering. Special emphasis is placed on problem solving, laboratory experiments, and analytical thinking. Additional activities may include special reports, projects, demonstrations, and guest lectures.

Earth Science - 04910

Grades: 11-12

Length: 1 Semester

Credits: 1/2

Prerequisite: Successful completion of Biology 1 and IPS or Chemistry. Sophomores not meeting these requirements may take this course with instructor's permission.

Recommendation: Students electing to take this course must be motivated to explore and learn about the physical processes taking place on our planet.

Description: This elective course will study the processes (internal & external) that have formed the Earth and the systems that continue to shape its features. This course will include lectures as well as hands-on lab activities. Students will be expected to research and present several examples of work during this one semester long course. Attendance is expected on a field trip to Pere Marquette State Park as part of a unit on local geology. Topics covered may include: Satellites, remote sensing & mapping. Tectonics, deformation, earthquakes & volcanism. Rocks, minerals and rock cycle. Weathering, erosion, and landforms. Geological time scale and dating techniques. Economic Geology and exploration.

Fee: \$15.00 to cover field trip expenses

Environmental Science - 04900

Grades: 11-12

Length: 1 Semester

Credits: 1/2

Prerequisite: IPS or Chemistry 1 and Biology 1

Recommendation: Above average interest in science and environmental issues

Description: Environmental Science is the study of interrelationships between humans and the natural world. This interdisciplinary course surveys: environmental science, ecosystems, biodiversity, and human impact. Current issues and sustainable solutions will be discussed and debated, with a focus on scientific problem-solving skills. Students with a wide range of science and social studies interests will benefit.

Field Ecology - 04950

Grades: 12

Length: 1 Semester, Class meets 2 hours daily

Credits: 1

Dual Credit: LCCC

Prerequisite: Successful completion of Biology 1 with a C or better; successful completion of Chemistry 1 or IPS

Recommendation: A field course based on field research. Approximately one-third of the course is held outdoors. Students must be willing to participate in all class activities in various weather conditions.

Description: Students participate in field-based research projects in terrestrial and aquatic environments.

Emphasis and Philosophy of Field Ecology:

- Participation in active field research studies
- Examination of local habitats and ecosystems
- Incorporation of different sciences (biology, chemistry, geography, etc.) into an interdisciplinary environmental science.
- Incorporation of modern technology (computers, GPS, GIS, chemical test kits) into research.
- Discussions and research of environmental issues.

This course requires both individual academic work and participation in group projects/studies. Approximately 30-40% of class periods will be held outdoors studying terrestrial and aquatic ecosystems in varying weather conditions. **Some student expense is involved in addition to the semester fee of \$15.**

Fee: \$15.00 to cover field trip expenses.

Introduction to Physical Science – Chemistry (IPS – A) - 05152

Grades: 10-11-12

Length: 1 Semester

Credits: ½

Prerequisite: Biology 1 and Algebraic Concepts 1

Recommendation: Taking Algebraic Concepts 2 or a higher level math course

Description: This is a laboratory course in which students will work in groups doing experiments in chemistry to help understand concepts such as mass, volume, density, boiling points, and melting points. Students will also learn to identify and use, safely and correctly, laboratory equipment. This “hands-on” approach will assist the students as they are learning about elements and compounds. In addition, the course involves solving mathematical problems and graphing which involves mathematical skills learned in Algebraic Concepts 1 or Algebra 1.

Introduction to Physical Science – Physics (IPS – B) - 05154

Grades: 10-11-12

Length: 1 Semester

Credits: ½

Prerequisite: Biology 1 and Algebraic Concepts 1

Recommendation: Taking Algebraic Concepts 2 or a higher level math course

Description: This is a laboratory course in which students will work in groups doing experiments in physics to help understand concepts such as motion, forces, time, temperature, light, lenses, mirrors, electricity, and magnetism. Students will also learn to identify and use safely and correctly, laboratory equipment. This “hands-on” approach will assist the students as they are learning about physics. In addition, the course involves solving mathematical problems and graphing which involves mathematical skills learned in Algebraic Concepts 1 or Algebra 1.

Meteorology and Astronomy - 04920

Grades: 10-11-12

Length: 1 Semester

Credits: 1/2

Prerequisite: Successful completion of Biology 1 and IPS, or Chemistry. Sophomores not meeting these requirements may take this course with instructor's permission.

Recommendation: Students electing to take this course must be motivated to learn more about meteorology and astronomy.

Description: This elective lab course will study the structure and composition of the atmosphere, the elements of weather and climate, weather patterns and storms, and Oceanography relating to weather systems. Additionally, the course will study the Earth's relationship to the Sun, moon and other bodies in our Solar System as well as Earth's place in the Cosmos. Students will experience field studies, and laboratory work in this course along with class work.

Fee: \$15.00 to cover field trip expenses – will be collected at registration.

Physics 1 - 05210

Grades: 11-12

Length: 2 Semesters

Credits: 1

Prerequisite: Biology 1, C or better in Chemistry 1, C or better in Geometry and concurrent enrollment in Algebra 2 or Pre-Calculus H.

Recommendation: Problem-solving skills.

Description: This course introduces students to the physical relationship between matter and energy. It is designed to teach students the link between science, technology, engineering and math. Students will have the opportunity to learn in the lab setting by performing classic physics experiments involving motion, energy, collisions and waves. Students will also design, evaluate and refine engineering systems to create real world solutions. Physics students learn essential problem solving skills that are necessary for anyone entering science, engineering or technology fields. Field trips and guest lectures will be provided. Field trips may require extra cost.

Physics 1 Honors - 05250

Grades: 11-12

Length: 2 Semesters

Credits: 1

Prerequisite: Biology 1, minimum of a B in Chemistry 1, completion or concurrent enrollment in Pre-Calculus H or Algebra 2 H. Students not meeting these requirements may still be considered to take the course after a meeting with the Physics 1 Honors teacher.

Recommendation: Problem-solving skills. B or better in Chemistry 1 (H) and Geometry.

Description: This course introduces students to the physical relationship between matter and energy. It is designed to teach students the link between science, technology, engineering and math. Students will have the opportunity to learn in the lab setting by performing classic physics experiments involving motion, energy, collisions and waves. Students will also design, evaluate and refine engineering systems to create real world solutions. Physics students learn essential problem solving skills that are necessary for anyone entering science, engineering or technology fields. Field trips and guest lectures will be provided. Field trips may require extra cost.

Physics 2 Honors -AP – 0518M

Grades: 12

Length: 1 Semester (Offered Fall Semester only)

Credits: 1 (Course meets for the entire 4th hour lunch period)

Prerequisite: A or B in Physics 1 Honors and Algebra 1, concurrent enrollment in Pre-Calculus H or Calculus H. Students not meeting these requirements may still be considered to take the course after a meeting with the Physics 2 Honors teacher.

Recommendation: Above average interest in science; problem solving skills

Description: In this course, students will study matter, energy, and the relationship between mass and energy. Students will experience hands-on college –level laboratory activities, and lecture presentations. Problem solving and increasing problem solving ability will be emphasized. Guest lectures and individual research will be offered. Students will be encouraged to take the college Board Advanced Placement Physics 2 test in the spring.

Physics 2 Honors – AP – 0518M & 0578M

Grades: 12

Length: 1 Semester (Offered Spring Semester only)

Credits: 1 (Course meets for the entire 4th hour lunch period)

Prerequisite: A or B in Physics 1 Honors and Algebra 1, concurrent enrollment in Pre-Calculus H or Calculus H. Students not meeting these requirements may still be considered to take the course after a meeting with the Physics 2 Honors teacher.

Recommendation: Above average interest in science; problem solving skills

Description: In this course, students will study matter, energy, and the relationship between mass and energy. Students will experience hands-on, college-level laboratory activities, and lecture presentations. Problem solving and increasing problem solving ability will be emphasized. Guest lectures, field trips, and individual research will be offered. Students will have the option to take either the non-calculus course (0518M) which will prepare them for the College Board Advanced Placement Physics 1 test in the spring, OR they can take the calculus course 0578M which will prepare them for the College Board Advance Placement Physics C Mechanics test in the spring. Field trips may require extra cost.

Zoology - 04800

Grades: 11-12

Length: 1 Semester

Credits: 1/2

Prerequisite: Grade of C or better in each semester of Biology 1, successful completion of either Chemistry 1 or IPS for a year

Recommendation: None

Description: This elective lab course will study diversity of animal life including adaptations, behavior, and anatomy and physiology of several animal phyla. Animal phyla will include mammals, birds, reptiles, amphibians, fish, and arthropods. Students will experience field trips, field studies, and laboratory work in this course along with class work. Dissection labs are mandatory for all students. **A lab and field trip fee of \$15.00 will be charged per course.**

DEPARTMENT: Junior Air Force ROTC

Colonel: Peter Wangler

Master Sergeant: Richard Dansizen

Air Force Junior ROTC I – 0626B

Grades: 9-10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: None

Recommendation: The student should understand uniform wear, military drill, and physical training are required weekly activities for all students.

Description: AFJROTC classes fall into two academic areas: Leadership Education and Aerospace Science. One class from each area is taught each semester.

Leadership Education I: Citizenship, Character & Air Force Tradition. This course 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. 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. **Aerospace Science I: A Journey into Aviation History.** This aviation history course focuses on the development of flight throughout the centuries. 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. AFJROTC is an elective credit in science; however, it cannot be used to fulfill the required science for graduation. One year of AFJROTC will waive one semester of required Physical Development. **There is a course fee of \$15.00 per year.**

Air Force Junior ROTC II – 0627B

Grades: 10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: Air Force Junior ROTC 1

Recommendation: None

Description: AFJROTC classes fall into two academic areas: Leadership Education and Aerospace Science. One class from each area is taught each semester.

Leadership Education II: Communication, Awareness, and Leadership. This course stresses communication skills and cadet corps activities. 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.

Aerospace Science II: Global and Cultural Studies. This course introduces students to various regions of the world from a geographic, historical, and cultural perspective. Geopolitical issues such as terrorism, economics, politics, military issues, religion, environmental concerns, human rights, 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.

Aerospace Science II: The Science of Flight. This course is 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. 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. AFJROTC is an elective credit in science; however, it cannot be used to fulfill the required science for graduation. One year of AFJROTC will waive one semester of required Physical Development. **There is a course fee of \$15.00 per year.**

Air Force Junior ROTC III – 0628B

Grades: 11-12

Length: 2 Semesters

Credits: 1

Prerequisite: Air Force Junior ROTC I & II

Recommendation: None

Description: AFJROTC classes fall into two academic areas: Leadership Education and Aerospace Science. One class from each area is taught each semester.

Leadership Education III: Aiming Toward a College Degree. This course focuses on applying for college. It includes lessons on selecting a college, choosing a major, campus life, and related information. There is also a heavy emphasis on communication skills.

Aerospace Science III: The Exploration of Space. This course 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.

Aerospace Science III: Explorations, An Introduction to Astronomy. This course explores the history or astronomy to include prehistoric astronomy. 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 the birth of Astrophysics are discussed. The Moon is discussed in detail as well as the Solar System, the terrestrial planets and the outer planets. AFJROTC is an elective credit in science; however, it cannot be used to fulfill the required science for graduation. One year of AFJROTC will waive one semester of required Physical Development. **There is a course fee of \$15.00 per year.**

Air Force Junior ROTC IV – 0629B

Grades: 12

Length: 2 Semesters

Credits: 1 (Honors Credit Challenge)

Prerequisite: Air Force Junior ROTC I, II, & III

Recommendation: None

Description: AFJROTC classes fall into two academic areas: Leadership Education and Aerospace Science. One class from each area is taught each semester.

Leadership Education IV: Career Opportunities. This course is designed to help students choose a career. It explores aptitude assessments, writing resumes, and planning professional development. Communication skills are also emphasized.

Aerospace Science IV: 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.

Aerospace IV: Policy and Organization. This course establishes the foundation for understanding the United States Air Force and delves into the purpose of the Department of Defense and the Air Force. The text describes the functions of the four branches of service. It discusses and describes the United States' National Security Strategy and gives a brief history of the military. The Nixon, Ford, Carter, Reagan, Bush, Clinton, and the structure of the United States to include descriptions of the objectives, mission, and organization of the Army, Navy, marines, and the Coast Guard. AFJROTC is an elective credit in science; however, it cannot be used to fulfill the required science for graduation. One year of AFJROTC will waive one semester of required Physical Development. **There is a course fee of \$15.00 per year.**

DEPARTMENT: Social Studies

Division Chair: Todd Haug

Department Head: Carla Hilgert

Graduation Requirements: 1 elective course, US History A and US History B or US History Honors, and American Government or American Government Honors. (Additional courses may be required for college admission beyond Alton High School).

African-American History Honors - 05600

Grades: 12

Length: 1 Semester

Credits: ½

Prerequisite: B average or higher in U.S. History and successful completion of 3 years of CP English. Honors form must be signed by a history teacher.

Recommendation: None

Description: This elective course will cover the history of African-Americans and their role within the larger context of American history. The course will concentrate on the persons and events crucial to the course of African-American history and their impact upon the history for the U.S.

American Government - 05310

Grades: 12

Length: 1 Semester

Credits: ½

Honor's Challenge

Prerequisite: None

Recommendation: Completion of U.S. History A & B

Description: This course is a one semester course that is offered to juniors and seniors, and is one of the courses required for graduation. The content of the course includes the study of early forms of government, the impact of political parties, and the executive, legislative, and judicial branches of our national and state governments. Other topics covered include the study of local units of government, the requirements for voting in Illinois and the duties and responsibilities of citizens in a democracy. Students will be required to pass the Illinois and Federal Constitution test.

American Government Honors - 05320

Grades: 12

Length: 1 Semester

Credits: ½

Prerequisite: Successful completion of U.S. History Honors or U.S. History and CP English 2 with an A or B, and recommendation of US History teacher

Recommendation: U.S. History Honors

Description: Students will study the foundations of US government, impact of political parties, the 3 branches of government at the national and state level, and state/local government. Students will be required to pass the Illinois and Federal Constitution test. Students will be challenged beyond the curriculum of the traditional American Government class with additional expectations including remaining up to date and informed on regional, national, and international politics for class discussion and debate. In addition, a greater emphasis will be placed on understanding and analysis of current events and primary documents. Students will also be expected to complete a formal research paper on a teacher approved government related topic. Advanced reading, writing, and debate skills will help ensure student success.

World Geography A (Western Hemisphere) – 05490

Grades: 9-10

Length: 1 Semester

Credits: ½ each

Prerequisite: None

Honors Challenge

Recommendation: None

Description: World Geography courses provide students with an overview of world geography, but may vary widely in the topics they cover. Students will be introduced to the basic elements of map work. World Geography A covers the Western Hemisphere. These areas of study include: North America, South America, Central America, etc. The five themes of geography also integrated into this course.

World Geography B (Eastern Hemisphere) - 05500

Grades: 9-10

Length: 1 Semester

Credits: ½ each

Prerequisite: None

Honors Challenge

Recommendation: None

Description: World Geography courses provide students with an overview of world geography, but may vary widely in the topics they cover. Students will be introduced to the basic elements of map work. World Geography B covers the Eastern Hemisphere. These areas of study include: Europe, Commonwealth of Independent States (former Soviet Union), Middle East, Africa, Far East, Australia, and Oceania. The five themes of geography are also integrated into this course.

International Politics Honors - 05610

Grades: 12

Length: 1 Semester

Credits: ½

Dual Credit: LCCC

Prerequisite: U.S. History Honors. Honors form must be signed by a history teacher.

Recommendation: U.S. History Honors

Description: The semester course in International politics is designed to take an in-depth look at current world situations and concerns. Students will be challenged by having to research the historical perspectives of nations and be able to relate them to current situations. Advanced debate and writing skills are useful. Most evaluations consist of written essay.

Psychology - 05660

Grades: 12

Length: 1 Semester

Credits: ½

Prerequisite: None

Recommendation: None

Description: The course centers on the forces behind human behavior, focusing on the various ways of measuring personality and the qualities necessary for popularity and leadership. The factors, which make up intelligence and ways to measure that intelligence, are introduced as are the make-up of heredity and the molding of personality by environmental factors. We look at what constitutes good mental health, and conversely what conditions contribute to producing mental illness.

Sociology - 05670

Grades: 12

Length: 1 Semester

Credits: ½

Prerequisite: None

Recommendation: None

Description: Sociology deals with man in his relationship to others. Social problems of today are investigated with emphasis on the functions of marriage, the family, and money management. Other areas of concentration are the meaning of American culture, its norms, sanctions and those who deviate from it; social stratifications or classes; American minorities; problems of aging; and crime.

U.S. History A - 05750

Grades: 11-12

Length: 1 Semester

Credits: ½

Prerequisite: None

Recommendation: None

Description: U.S. History A covers the social, political, and economic history of the United States from 1492 to 1900. Topics covered include: Reconstruction, Settlement of the West, Industrialization, Populist, and Progressive Reform.

U.S. History B - 05810

Grades: 11-12

Length: 1 Semester

Credits: ½

Prerequisite: None

Recommendation: None

Description: The subject matter for this course begins with Imperialism/World War I. From this period, the course turns its attention to such topics as the economic and social ills of the Roaring Twenties, the political and social issues of the Great Depression, U.S. Imperialism, the New Deal Policies, U.S. involvement in World War II, the Post-War years, Korean War, "Cold War," Kennedy years, Vietnam War, domestic issues challenges of world leadership, and changing ways of American life.

U.S. History Honors – 05710 & 05720

Grades: 11-12

Length: 2 Semesters

Credits: 1

Prerequisite: Overall B average

Recommendation: None

Description: U.S. History Honors is designed to challenge and prepare students who are interested in a rigorous college preparation program. Students will understand the political and economic development of the nation and will focus on social history. They will evaluate headlines and eyewitness accounts that have motivated Americans and shaped the nation's history. Students will be challenged to compare relationships between the present and historical events, and to analyze cause and effect. They will gain insights and knowledge to enable them to appreciate history as both a record of the past and as an indicator of the future.

Western Civilization (World History A) - 05850

Grades: 9-10

Length: 1 Semester

Credits: ½

Honor's Challenge

Prerequisite: None

Recommendation: None

Description: This Western Civilization course applies an interdisciplinary approach to the study of western cultural traditions, frequently using chronological framework. The course content typically includes a survey of the major developments in and contributors to art and architecture, literature, religion and philosophy, and culture. Western Civilization covers the beginning of civilizations and early cultures of: Mesopotamia, Sumeria, Egypt, Greece, Rome, and the Muslim world.

Modern European History (World History B) - 05860

Grades: 9-10

Length: 1 Semester

Credits: ½

Honor's Challenge

Prerequisite: None

Recommendation: None

Description: This Modern European History course provides an overview of the history of human society in the past few centuries – from the early Middle Ages to the contemporary period – exploring political, economic, social, religious, military, scientific, and cultural developments. Modern European History covers: Imperialism, the emergence of governments, factors and causes of World War I, various economic conditions that promoted global hardships, and the Holocaust and World War II.

DEPARTMENT: Special Education

Division Chair: Denise Nosce

Department Heads: Bridget Kenney and Pamela Wahl

XC Communicating - 06610

Grades: 10-11-12

Length: 1 Semester

Credits: ½

Prerequisite: None

Recommendation: None

Description: The course will focus on studying different aspects of oral communication through class activities and projects. These activities are designed to develop student's personal goals, acquisition of self-assurance, and the understanding of purposes and methods of effective communication.

SE Job-O - 06880

Grades: 10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: Age 16 or older

Recommendation: Referral by teacher

Description: This course is taken in conjunction with Special Education Work Experience. Students enrolled in this course are generally also receiving credit for the on-job-training. Classroom topics include mock interview situations, completing job applications, reading paycheck stubs, figuring tax forms and reductions, vocabulary pertaining to the working world, interest inventories, reading and answering part-time and full-time classified ads, sample application letters, personal grooming, and work habits. SE work experience credit for on the job training.

XC Algebraic Concepts 1 - 06450

Grades: 9-10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: XC Pre-Algebra

Recommendation: None

Description: In XC Algebraic Concepts 1, students will be presented with the second half of the Algebra 1 curriculum. Topics are aligned with the Common Core State Standards and include exponential functions, polynomials, and factoring, quadratic equations and functions, radical expressions and equations, rational expression and functions. Supplemental materials. **Book: Algebra 1 (Prentice Hall Mathematics 2 Years)**

XC Algebraic Concepts 2 - 06455

Grades: 10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: XC Algebraic Concepts 1

Recommendation: None

Description: In XC Algebraic Concepts 2, students will be presented with the second half of the ALGEBRA 1 book. Topics include exponents, exponential functions, polynomials and factoring, quadratic equations and functions, radical expressions and equations, rational expressions and functions. This course mirrors the regular education Algebraic Concepts 2; however, more time is spent on concepts with supplemental worksheets,

Book: Algebra 1 (Prentice Hall Mathematics 2 Years)

XC Consumer Math - 06540

Grades: 10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: C or above in Basic Math or Pre-Algebra.

Recommendation: Referral by previous or present teacher.

Description: Students work with the basic skills of mathematics and gradually move to multiplication and division with exponents, perimeter, area, and volume of specific objects. Students learn simple equations, simple verbal problems, fractions, decimals, and percentages.

XC Geometry Concepts - 06440

Grades: 10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: C or above in XC Algebra Concepts 2

Recommendation: Referral by previous or present teacher

Description: This course will focus on strategies to work on the following geometry concepts: planes, parallel lines, congruent figures, triangles, solid geometric figures and their measures, and circles. This course mirrors the regular education Geometry curriculum; however, more time is spent on concepts, with supplemental worksheets

XC Pre-Algebra - 06460

Grades: 9-10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: None

Recommendation: None

Description: Students work with the basic skills of mathematics and gradually move to multiplication and division with exponents, perimeter, and area. Students learn simple equations, simple verbal problems, fractions, decimals, and percentages.

XC American Government – 06590 - 06980

Grades: 11-12

Length: 1 Semester

Credits: 1/2

Prerequisite: None

Recommendation: None

Description: This required course includes the study of our local, state, and federal forms of government. Passing the Illinois and Federal Constitution tests are a requirement.

XC American History A – 06570 - 06980

Grades: 11-12

Length: 1 Semester

Credits: 1/2

Prerequisite: None

Recommendation: None

Description: This required class covers the social, political, and economic history of the United States from 1865 to 1920.

XC American History B – 06580

Grades: 11-12

Length: 1 Semester

Credits: 1/2

Prerequisite: None

Recommendation: None

Description: This required class begins with 1870's and covers the social, political, and economic history of the United States until present time.

XC/SE Art - 06310

Grades: 9-10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: None

Recommendation: None

Description: This class provides a variety of art experiences.

XC Biology – 06530 - 06890

Grades: 9-10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: None

Recommendation: None

Description: This course will introduce students to biological vocabulary and concepts such as the study of atoms, cells, heredity, bacteria, and plants. This course will include classroom projects as part of practice activities and assessment of science skills.

XC/SE Computer Literacy - 06350

Grades: 9-10-11-12

Length: 1 Semester

Credits: 1/2

Prerequisite: None

Recommendation: None

Description: This course will introduce students to computer hardware and computer software including Microsoft Office programs.

XC Consumer Education – 06340 - 06650

Grades: 9-10-11-12

(9th grade with course ability)

Length: 1 Semester

Credits: 1/2

Prerequisite: None

Recommendation: None

Description: Special Education students will be introduced to and discuss money management, various types of insurance, banking practices, and consumer protection. The course introduces the students to advertising, housing, transportation, clothing, nutrition, and comparison shopping skills.

XC Geography A & B – 06560 - 06910

Grades: 9-10-11-12

Length: 1 Semester

Credits: 1/2

Prerequisite: None

Recommendation: None

Description: An introduction to map work and map skills is covered in this required class. Students study the government, education, sports, religions, and cultures of different countries.

XC Health – 06420 - 06710

Grades: 9-10-11-12

(9th grade with course availability)

Length: 1 Semester

Credits: 1/2

Prerequisite: None

Recommendation: None

Description: Health includes units on drugs, alcohol, tobacco, first aid and safety, human development, communicable diseases, sexually transmitted diseases, mental health, and nutrition.

SE Math - 06830

Grades: 9-10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: None

Recommendation: None

Description: Students review the basic operations of addition, subtraction, multiplication, division, time, and money.

XC Reading Lab - 06515

Grades: 9-10

Length: 2 Semesters

Credits: 1

Prerequisite: None

Recommendation: None

Description: Reading Lab consists of small group instruction, which focuses on comprehension, vocabulary, and writing skills. Skills taught in the class are reinforced individually on a computer based program.

XC/SE Professional Profiles - 06490

Grades: 9-10-11-12

Length: 1 Semester

Credits: 1/2

Prerequisite: None

Recommendation: None

Description: Cross-Categorical Profiles is a course designed to develop the student's ability to project a business and personal image, which will enhance success in the adult world.

XC Science Survey – 06520 - 06880

Grades: 9-10-11-12

Length: 2 Semesters

Credits: 1

Prerequisite: None

Recommendation: None

Description: The subject matter in this course will examine topics in general physical science and chemistry. Lecture presentations, group and individualized projects and reports, videos, vocabulary, hands on activities, and current events will be used to assist students in understanding the information presented. Math and Algebra as well as graphing are used to reinforce topics presented. First semester is an introduction to Physical Science, and Second semester is an introduction to Chemistry.

XC Tech Prep English 3 – 06372

Grades: 11-12

Length: 2 Semesters

Credits: 1

Prerequisite: Credit in two previous English classes

Recommendation: For students who plan to pursue careers in technical fields

Description: This is a career preparation course which will help students make the connection between language arts and employment and/or postsecondary education. One of the main goals of the class is for students to begin to understand why mastering language arts skills will assist them in being successful in life. This course will emphasize “hands on” learning and directly connect the concepts learned within a language arts class with the world of work. It will provide students with a greater understanding of technical careers and the skills needed to be successful in today’s demanding and competitive work place. This course emphasizes effective listening skills, interpersonal skills, appropriate work place attitudes and characteristics, preparation of resumes, business letters, and public speaking and written communication skills.

XC Tech Prep English 4 – 06370

Grades: 11-12

Length: 2 Semesters

Credits: 1

Prerequisite: Tech Prep English 3

Recommendation: None

Description: Tech Prep English 4 will help develop communication skills that are essential for deciding upon a career, obtaining a job, keeping a job, and being prepared for promotions.

XC/SE/SED Orientation to Employment - 06960

Grades: 9-10-11-12

Length: 1 Semester

Credits: 1/2

Prerequisite: None

Recommendation: None

Description: The subject matter of this course includes information and practice of skills needed to make successful applications for part-time jobs, which are suitable for high school students.

Speech and Theater

Division Chair: Andrea Smith

Department Head: Jeff Hudson

Graduation Requirement: Speech and Theatre courses (except stage craft) will count towards the English graduation requirement. All Speech and Theatre courses are ½ credit.

Acting - 06240

Grades: 10-11-12

Length: 1 Semester

Credits: ½

Prerequisite: none

Recommendation: C average or better in English classes

Description: This is a performance class in which students will learn the art of acting through scene study and improvisation. It is an elective course that meets the requirements for one semester of Theatre, English, or Fine Arts credit. The Stanislavski method is taught to help students create and sustain interesting, believable characters. Students will read and analyze plays, receive scene assignments for in-class rehearsal and performance, and eventually select their own scenes to present to the class. Note: Heavy memorization will be required.

Communicating - 06010

Graduation Requirement

Grades: 10, 11, 12

Length: 1 Semester

Credits: 1/2

Prerequisite: None

Recommendation: None

Description: Communicating is a required course for graduation from Alton High School. It is recommended during the sophomore year. In this one semester course, various aspects of oral communication are studied. Many class activities are planned to encourage the development of personal goals and acquisition of self-assurance. Understanding the purposes and methods of effective communication is an important goal of the course. Other units include active listening, intrapersonal communication, group problem solving and public speaking. Presenting a speech is required.

Discussion & Debate H - 06080

Grades: 11-12

Length: 1 Semester

Credits: ½

Prerequisite: A or B in Communicating

Recommendation: Public Speaking

Description: This course is elective and meets the requirement in English. Students will learn and apply principles of public speaking, group discussion and debate. Students will develop reasoning and presentation skills, including providing support for expressions of opinion and analyzing the opinions of others. Students will engage in sophisticated research techniques: discovering, organizing, and processing information. They will be expected to develop extensive, fully-supported case arguments as part of the debate brief. Students will present in group discussions and formal debates.

Introduction to Theater - 06230

Grades: 10-11-12

Length: 1 Semester

Credits: ½

Prerequisite: None (priority given to 10, 11, 12)

Recommendation: C average or above

Description: This class is for students who have an interest in live theatre: the performance and reading of plays, theatre production, theatre history, and the development of the modern theatre. It is an elective course and meets the requirements for one semester of Theatre, English, or Fine Arts credit. Students will explore the process of taking plays from “page to stage,” learning the steps involved in bringing a script to life. During the first quarter, students will study the history of theatre and read and analyze plays of different types (comic vs. dramatic, realistic vs. highly stylized), from various periods in history, with an emphasis on more recent works. In the second quarter, we will broaden theatre. Students will benefit from extensive note taking, in-depth reading, and critical viewing of recorded materials. Grades are based on test scores, performances, the writing of papers, and work on group and independent projects.

Mass Media - 06110

Grades: 11-12

Length: 1 Semester

Credits: ½

Prerequisite: None

Recommendation: None

Description: Mass Media is a basic survey course dealing with the mass communications media: newspapers, magazines, radio, television, motion pictures, books, technology, and advertising. The history of each media will be studied and vocabulary terms related to each media will be mastered. There will be written assignments, projects, and tests.

Mass Media: The History of Motion Pictures - 06120

Grades: 11-12

Length: 1 Semester

Credits: ½

Prerequisite: None

Recommendation: For students interested in Media Theatre or those needing an elective course to graduate.

Description: “Media Study”- The History of Motion Pictures is a one semester course open to all juniors and seniors. Students will do a historical study of motion pictures and will view many classic films. They will write critiques of various types of motion pictures. They will also study the advancements in the motion picture industry and write a screen play. To be successful in this class, students should enjoy watching old films. Common Core writing skills will be emphasized.

Public Speaking Honors - 06175

Grades: 11-12

Length: 1 Semester

Credits: ½

Prerequisite: A or B in Communicating

Recommendation: College Bound Students

Description: This course is an elective and meets requirements in English. This course gives students experience in preparing and presenting many different types of speeches: informative, persuasive, process, sales pitch, and commemorative. Units in organization, delivery of the speech, reasoning, and audience analysis are incorporated into the speaking schedule. Student will research, outline, and organize each speech before it is presented.

Stagecraft - 06200

Grades: 10-11-12

Length: 1 Semester

Credits: ½ Fine Arts Credit

Prerequisite: None

Recommendation: None

Description: Stagecraft is the study and application of various design and technical elements involved in theatre production. It meets the requirements for one semester of elective Fine Arts credit. Emphasis is placed on the organization of a theatre: scene design and construction, stage lighting, scene painting, and other artistic and practical aspects of theatre. Much of the class time is spent in the theatre scene shop or on the actual stage, where scenery is planned, constructed, and painted, and lighting is designed and executed. Note: This course cannot be applied as an English elective.

