

Herscher High
School
2016-2017
Curriculum Guide



Guidance
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ART AND MUSIC

Art I* 9-12
 Adv Drawing, Painting 11-12
 Pottery & Sculpture* 10-12
 Adv Pottery & Sculpture*11-12
 Graphic Design* 10-12
 Photography* 10-12
 Band 9-12
 Orchestra 9-12
 Concert Choir 9-12
 Chamber Choir 10-12
 Music Theory* 10-12
 Advanced Music Theory* 10-12

ENGLISH

Foundations of Eng I, S 9
 English I, S 9
 Advanced Eng I, S 9
 Foundations of Eng II, S 10
 English II, S 10
 Advanced Eng II 10
 Foundations of Eng III, S 11
 English III, S 11
 Advanced Eng III 11
 Foundations of Eng IV, S 12
 English IV, S 12
 Advanced Eng IV 12
 AP Senior English 12
 **Journalism* 10-12
 **Publications 11-12
 **Speech I* 10-12
 **Advanced Speech* 11-12

WORLD LANGUAGE

Spanish I 9-12
 Spanish II 10-12
 Spanish III 11
 Spanish IV 12

BUSINESS

Intro. To Business 9-12
 Desktop Publishing 9-12
 Web Design (KCC) 10,11,12
 Focus on Careers 11, 12
 Business & Per. Law 10, 11, 12 (2016-17)
 Accounting I (KCC 2nd) 10, 11, 12
 Entrepreneurship/Sm. Bus. 10, 11, 12
 (2017-18)
 Sports & Ent. Marketing 10, 11, 12 (fall)
 Sports & Ent. Management 10, 11, 12
 (spring)

MATHEMATICS

Algebra 1A, S 9-11
 Algebra IB Double Block, S 9-12
 Algebra IB, S 9-12
 Geometry, S 9-12
 Advanced Geometry, 9-12
 Algebra II, S 10-12
 Advanced Algebra II, 10-12
 Finite Math 11, 12
 AP Statistics 12
 Pre-Calculus 11, 12
 Analytic Geometry/Calc-Intro* 12
 Calculus * (KCC) 12
 Programming I* 10, 11, 12
 Programming II* 10, 11, 12

PHYSICAL HEALTH ED.

Health, S* 9
 Fr/Soph P.E. (Boys) 9-10
 Jr/Sr PE (Boys) 11-12
 Fr/Soph P.E. (Girls) 9-10
 Jr/Sr PE (Girls) 11-12
 Athletic Training 10-12

SCIENCE

Biology 9
 Advanced Biology 9
 Physical Science 10-11
 Adv. Physical Science 10-12
 Environmental Science 10-12
 Anatomy & Physiology 11-12
 Basic Chemistry 10-12
 Chemistry 10-12
 Advanced Chemistry* 11-12
 Physics I* 11-12
 Physics II* 11-12
 Agriculture Science 10
 BSAA (Animal/Plant Science) 10-12

SOCIAL SCIENCE

World History I* 9-12
 World History II, S* 9-12
 World Geography*(KCC) 11-12
 American History I & II, S 11
 AP Am History 11
 Sociology* 11-12
 Civics, S* 12
 Economics, S 12)
 Psychology* 11-12
 World Geography, S* 9-12

CAREER & TECH ED/VOCATIONAL

Child Development I, S 10-12
 Child Development II 11-12
 Clothing 1* 9-12
 Clothing II,* 10-12
 Clothing III *11, 12
 Clothing IV* 11, 12
 Foods I, S* 9-12
 Foods II, S* 9-12
 Bakery & Busn.*10-12
 Food Service Mang*10-12
 Family Living, S* 11-12
 Parenting* 10-12
 Interior Design* 11-12
 Independent Living*11-12
 Tech Ed, S 9-11
 Electricity* 10-12
 Drafting I* 10-12
 Drafting II* 10-12
 Const Processes* 10-12
 Prod Tech, S* 10-12
 Power Tech I 10, 11, 12
 Power Tech II 10, 11, 12
 Horticulture Prod & Mang* 11-12
 Intro Ag Industry 9-10
 Ag Business Management 11-12 (2016-17)
 Ag Business Operations 11-12 (2017-18)

CAREER CENTER 11, 12

Automotive Technology I
 Automotive Technology II
 Child Development I/Preschool
 Child Development II/Preschool
 C.N.A. Training Program
 Collision Repair I
 Collision Repair II
 Computer Technology I
 Computer Technology II
 Construction Technology II
 Cosmetology I
 Cosmetology II
 Drafting + 3D Design I
 Drafting + 3D Design II
 Fire/Rescue I
 Fire/Rescue II
 Law Enforcement I
 Law Enforcement II
 Medical Terminology & Skill Dev.
 Welding Tech I
 Welding Tech II

SPECIAL NEEDS

Literature I (SPN)
 Literature II (SPN)
 Literature III & IV (SPN)
 Practical English (SPN)
 Practical Math I (SPN)
 Practical Alg 1A (SPN)
 Practical Geometry (SPN)
 Am Govn (SPN) 11-12 (2016-17)
 Economics (SPN) 11-12 (2016-17)
 Am Hist I*(SPN) 11-12 (2017-18)
 Am Hist II*(SPN) 11-12 (2017-18)
 Health* (SPN)
 Coop. Work Exp.* (SPN)
 AD PE (SPN)

*Semester Classes
 **Electives Only

GRADUATION REQUIREMENTS

All students must carry a minimum load of 6 credits per year. 22 credits will be required to graduate. All classes are .5 credits per semester.

The following items are required for graduation:

1. Four credits of English
2. Three credits of Mathematics
3. Two credits of Science
4. One credit of American History
5. One half credit of Health
6. One half credit of either World Geography or World History
7. One half credit of Civics
8. One half credit of Economics
9. Four credits of Physical Education or Athletic Training (Minus those credits waived as per item (f) listed below.)
10. One credit of Vocational Education, Art, Music, or World Language

To successfully complete a high school program, the following items must be kept in mind:

- a. Students are required to take four years of English. This means that two semesters are required every year. Taking three semester courses one year will not make you exempt for one semester the following year. JUNIORS: The junior year of English will consist of English III, Foundations of English III, or Advanced English III. SENIORS: The senior year of English will consist of English IV, Foundations of English IV, Advanced English IV, or Advanced Placement English.
- b. Students must enroll in American History during their junior year.
- c. Students must enroll in Civics during their senior year. By passing this course, the students fulfill the state requirements for passing the U.S. and Illinois Constitution tests.
- d. Students must enroll for a semester course in Economics during their Senior year. World Geography or World History will be required during their Freshman, Sophomore, or Junior year.
- e. Each student must be enrolled in Physical Education or Athletic Training each semester of attendance at Herscher High School. All Medical Waivers will be evaluated upon Doctor recommendation. All students can receive a P.E. waiver if they are actively involved in Marching Band in the fall or Show Choir in the spring semester. Juniors and Seniors may be eligible to receive a P.E. waiver if they meet one of three criteria established by the Board of Education.
 1. A student is actively involved in athletics during that semester.
 2. A student needs an academic course in order to meet the graduation requirements at Herscher High School. (Career Center Students)
 3. A student needs an academic course in order to meet a specific college entrance requirement.

- f. Students who option out of P.E. must carry at least 6 academic subjects and no more than one study hall.
- g. No additional credit will be given for Driver Education since it is counted as part of the P.E. credit.
- h. All academic courses carry the following credits:
 - 1. Full year courses 1 credit
 - 2. Semester courses ½ credit
 - 3. Kankakee Area Career Center.....3 credits
- i. Students are not allowed to graduate early.
- j. Any student with straight A's who would like to be considered for Valedictorian of their class must take ALL (AP) Advanced Placement classes available. Currently, AP Am History, AP Senior English and AP Statistics are the three weighted classes offered.

CAREER PLANNING

It is recommended that throughout their high school program, students give serious thought to their career plans. Students and parents are urged to consult the high school counseling staff whenever they have questions concerning career planning or post-high school educational opportunities. Appointments can be made with the counselors by calling 815-426-2103, the high school telephone number. Ms Marcukaitis and Mrs. Bisailon are the counselors and caseloads will be split alphabetically. The Guidance office is open from 7:15 A.M. - 3:50 P.M.

NOTE: SCHEDULE CHANGE POLICY

Students can request changes in their schedules for either semester during the last 3 days of the school year for the following year schedule. Administrators, counselors, or teachers must initiate any changes after that date and generally only due to course conflicts, balancing of classes, or failure to meet prerequisites.

Students will not be allowed to schedule or withdraw from a class based on teacher preference or teacher conflict.

NOTE: ACCEPTANCE OF OUTSIDE CREDIT

Credit may be earned to make up a failure at Herscher High School in a required course through counselor-approved correspondence courses, summer school, or KCC Continuing Education night classes at BBCHS or HHS. Only two credits (4 semester classes) can be accepted outside of Herscher classes for graduation. This rule does not apply to transfer students or students who are older than 19 years old and have had their class already graduate.

CLASS WITHDRAW REQUEST POLICY

The decision to take a course is an important one. Students should seriously consider their educational and career goals. It is imperative that students and parents give careful consideration to course requirements.

- After 5 class days, students may request to withdraw/drop from a course.
- Required courses cannot be dropped, such as English.
- If the withdraw/drop request is granted, a W/F will be reported to the student's transcript, no credit will be given, and the failing grade will be calculated toward the student's GPA. Dropping courses may impact graduation and/or acceptance into college.

A Parent/Guardian signature is required to acknowledge understanding of the implications of the schedule change, as well as, agreement.

Worksheet for planning your course selection at Herscher High School

Please consult the curriculum guide provided with this sheet for graduation requirements and recommended track of classes.

Some things to keep in mind:

- Herscher High School has seven class periods in a day.
- No student may have more than one learning lab per semester.
- Most classes are year long classes with a few offered as one semester and therefore must be balanced with another, one semester course or learning lab.
- Driver's Education is automatically scheduled according to birthday and grades
- A student in their Junior and Senior years could be eligible to attend the Kankakee Career Center which would take three class periods both semesters of scheduling time.
- If a student does *not* pass a required course, they must make up the credit the following semester during the seven period day, night school or summer school.

Freshman Year

- 1a) English _____
- 1b) English _____
- 2a) Math _____
- 2b) Math _____
- 3a) Sci. _____
- 3b) Sci. _____
- 4a) Health _____
- 4b) P.E./ A.T. _____
- 5a) _____
- 5b) _____
- 6a) _____
- 6b) _____
- 7a) _____
- 7b) _____

Sophomore Credits = 5

Sophomore Year

- 1a) English _____
- 1b) English _____
- 2a) Math _____
- 2b) Math _____
- 3a) Sci. _____
- 3b) Sci. _____
- 4a) _____
- 4b) _____
- 5a) _____
- 5b) _____
- 6a) _____
- 6b) _____
- 7a) _____
- 7b) _____

Junior Credits = 11

Graduation Requirement

Check List

- English _____
- English _____
- English _____
- English _____
- Math _____
- Math _____
- Math _____
- Science _____
- Science _____
- American History _____
- Health _____
- Civics _____
- Econ _____
- World Geo. or Hist. _____

Junior Year

- 1a) English _____
- 1b) English _____
- 2a) Math _____
- 2b) Math _____
- 3a) Am Hist _____
- 3b) Am Hist _____
- 4a) _____
- 4b) _____
- 5a) _____
- 5b) _____
- 6a) _____
- 6b) _____
- 7a) _____
- 7b) _____

Senior Credits = 16

Senior Year

- 1a) English _____
- 1b) English _____
- 2a) Civics _____
- 2b) Econ. _____
- 3a) _____
- 3b) _____
- 4a) _____
- 4b) _____
- 5a) _____
- 5b) _____
- 6a) _____
- 6b) _____
- 7a) _____
- 7b) _____

Graduation Credits = 22

Learning Lab

The Learning Lab replaces Study Hall and is designed to emphasize the importance of academics by providing time for students to complete homework and further their academic achievement by providing an environment that encourages student achievement.

Each Learning Lab period will start with 10 minutes of MANDATORY silent-sustained reading in which all students will participate. Additionally, tutoring will be available for students needing assistance in various academic areas.

ART AND MUSIC CURRICULUM

Subject: Art 1

Year Offered: 9, 10, 11, 12
Prerequisite: None
Length of course: 1 semester
Credit: ½ credit

Course Description: Students will explore and express art concepts, processes, materials, and techniques through all the art elements and principles. Art processes will include drawing, painting, as well as several other mediums. Students who plan on taking advanced drawing and painting and the graphics art courses are required to take this class.

Subject: Advanced Drawing and Painting

Year Offered: 11, 12
Prerequisite: A/B in Art 1, or consent of the instructor
Length of Course: 1 semester
Credit: ½ credit

Course Description: Continuing study of drawing and painting methods and media with emphasis on original work.

Subject: Pottery and Sculpture

Year Offered: 10, 11, 12
Prerequisite: None
Length of Course: 1 semester
Credit: ½ credit

Course Description: Pottery would include both hand building techniques and take the student from clay preparation through the finished fired pot. Sculpture would include work in clay, plaster, wood and stone in both constructive and destructive techniques. The course would include lectures on the history of pottery and sculpture to help the student appreciate the media.

Subject Advanced Pottery and Sculpture

Years offered: 11, 12
Prerequisite: An A in Pottery and Sculpture and/or instructor's consent
Length of Course: 1 semester
Credit: ½ credit

Course Description: Continued study in pottery and sculpture.

Subject: Graphic Design

Year Offered: 10, 11, 12
Prerequisite: Passing grade in Art 1
Length of Course: 1 semester
Credit: ½ credit

Course Description: This is a course that focuses on the creation of original artwork to serve the purpose of communicating visually. The students will follow a similar process used by professionals in the graphic arts industry. Emphasis will be placed on learning practical skills through the exploration of typography design, illustration, imagery and image manipulation. No previous experience is necessary but drawing skills are an advantage.

Subject: Photography

Year Offered: 10, 11, 12
Prerequisite: None
Length of Course: 1 semester
Credit: ½ credit

Course Description: Students will gain general knowledge of photography and how it is used in today's world. This course emphasizes the development of students' abilities to interpret and judge the formal and expressive qualities of photography. Technical skills such as composition, lighting, camera usage, and processing will be taught.

Subject: Band

Year Offered: 9, 10, 11, 12
Prerequisite: Playing experience from junior high or approval from director
Length of course: 1 year - No Exceptions
Credit: 1 credit

Course Description: The Herscher High School Band Program presently consists of four major organizations: Concert Band, Jazz Band, Marching Band, and Pep Band. By being in Band, students are required to participate in Concert Band, Marching Band, and Pep Band and must be in the class for the entire year. Seating placement for concert is determined by audition after marching season, and students are required to take part in solo and ensemble contest, organizational contests, all concerts, and all public performances on the band schedule. Individual lessons, a class blog, and other writing assignments are also a part of the curriculum for band. Jazz Band is the only extra-curricular ensemble and is not required by all students.

Subject: Orchestra

Year Offered: 9, 10, 11, 12
Prerequisite: Junior High school string experience or instructor's permission
Length of course: 1 year
Credit: 1 credit

Course Description: The Herscher High School Orchestra is open to any student with Junior High experience on violin, viola, cello, or string bass. The Orchestra meets daily to further develop skills and prepare a wide variety of orchestral literature for performances. After completion of the band's marching season, selected wind and percussion players are added to the group to provide full orchestra experience. In addition to concert performance, the orchestra participates in IHSA solo and ensemble contest and organizational contest. Smaller ensembles are formed as needed to provide chamber music experience and community service. **Individual lessons are required for this course.**

Subject: Concert Choir

Year Offered: 9, 10, 11, 12
Prerequisite: Meet with Instructor
Length of course: 1 year - exceptions can be made at directors' discretion
Credit: 1 credit

Course Description: Concert Choir is a non-auditioned, friendly atmosphere choir that is still musically challenging, but with more accessible music to more students. This is an all female ensemble, which allows us to strengthen our female voices

Subject: Chamber Choir

Year Offered: 10, 11, 12

Prerequisite: Audition

Length of course: 1 year

Credit: 1 credit

Course Description: Chamber Choir is an auditioned group, auditions are open to freshmen through seniors, but the group is typically made up of upper classmen. The Chamber Choir is for advanced music students who wish to further their music education. They will perform more diverse and difficult music and they will move at a much quicker pace. It is expected that students in Chamber choir will attend their Choir lessons, as well as all performances.

Subject: Music Theory

Year Offered: 10, 11, 12

Prerequisite: Membership in band, orchestra and/or choir or instructor's permission.

Length of course: 1 semester

Credit: ½ credit

Course Description: This course is an introduction to music theory including all aspects of basic common practice harmony, i.e., rhythmic structure, scale structure, interval and chord identification, ear training, sight-singing, and beginning composition and arranging.

Subject: Advanced Music Theory

Year Offered: 10, 11, 12

Prerequisite: Music Theory I or instructor's permission plus piano skills

Length of course: 1 semester

Credit: ½ credit

Course Description: Students learn more about advanced chord structure and function, including secondary dominants, Neapolitan chords, non-harmonic tones, musical form, sight-singing, and more advanced composition and instrumentation techniques. Students are more involved in independent lab experiences using traditional materials along with a computer music-writing program. Emphasis on ear training is continued.

BUSINESS CURRICULUM

Subject: Intro to Business

Year Offered: 9, 10, 11, 12
Prerequisite: None
Length of Course: 1 semester
Credit: ½ credit

Course Description: This course is designed for students to get an overall view of business and related activities that are practical to real world business situations. Students will learn basic economic principals, basic management and marketing functions and personal financial management while dealing with businesses as a consumer. Each topic will be related to current issues involving a variety of business related situations. Emphasis will be placed on current issues affecting businesses and consumers. **Students must have a parent signed AUP on file.**

Subject: Desktop Publishing

Year Offered: 9, 10, 11, 12
Prerequisite: None
Length of Course: 1 semester
Credit: ½ credit

Course Description: This skill-level course is designed to address specific desktop publishing features and concepts. Using graphics, fonts, and color, students will create newsletters, magazine ads/advertisements, gift certificates, programs, and tickets. In addition, students will use digital photography to create digital images and be introduced to the wonderful features offered in MS Publisher. This course will give hands-on experience through computer desktop publishing. **Students must have a parent signed AUP on file.**

Subject: Web Design (KCC)

Year Offered: 10, 11, 12,
Prerequisite: None
Length of course: 1 semester
Credit: ½ credit and 3 hours of college credit)

Course Description: This skill-level course will teach web site and web page design concepts and terminology. This course will cover web site design concepts by discussing appearance, design, and uniformity as well as hyperlinks, maintenance, search engines, counters, and frames. **Students must have a parent signed AUP on file.**

Subject: Focus On Careers

Year Offered: 11,12
Prerequisite: None
Length of Course: 1 semester
Credit: ½ credit

Course Description: This course explores what life after high school will consist of. Students will explore career options and learn employability skills for job success. To prepare for a career, students will start with a job search, create a resume, practice job interviewing and beyond. Two, one day job shadowing experiences will be required by each student. Transportation for the job shadowing must be arranged by the student/parent.

Subject: Business and Personal Law (offered 2016-17)

Year Offered: 10, 11, 12
Prerequisite: None
Length of Course: 1 semester
Credit: ½ credit

Course Description: Business and Personal Law is a practical, orientation to law course which will demonstrate to students that almost every action is guided by some type of law. This course is designed to develop an understanding of law relating to an individual's rights and obligations as a student, worker, and a citizen. Law within our society is stressed as it applies to everyday use and to the most common business and personal transactions. The course content includes an overview of ethics and trial procedures, the differences between civil and criminal law copyright regulations, contracts, rights of the merchant and consumer, employee/employer responsibilities, and other various topics that will aid the student in becoming a competent consumer and citizen. Developing a sound base of knowledge in these areas encourages students to make educated decisions.

Subject: Accounting I (KCC dual credit 2nd semester only)

Year Offered: 10, 11, 12
Prerequisite: None
Length of Course: 1 year
Credit: 1 credit and 3 hours of college credit

Course Description: Accounting is the systematic recording of the financial operations of a business or individual. The class is for students interested in pursuing any form of business career/major and includes the learning of all basic accounting principles and theories. It includes posting, journalizing, report writing, completing worksheets, and payroll. The class is concluded with a practice set which is a simulation of actual on the job training. Accounting I will be a prerequisite for Accounting II. **Project & materials fee \$50.00.**

Subject: Entrepreneurship/ Small Business (offered 2017-18)

Year Offered: 10,11,12
Prerequisite: None (Intro to Business recommended)
Length of Course: 1 semester
Credit: ½ credit

Course Description: Can you see yourself owning a business or operating a small business someday? Small Business Management and Entrepreneurship is a comprehensive understanding of duties, responsibilities, and problems of small business owners and managers.

Entrepreneurship is designed to provide students with information on how to recognize the role of small business/entrepreneurship in our economy. The course will help students identify their potential for small business ownership and will prepare them for entering the job market. As part of this course, students will prepare a business plan with the notion that they may set up and run a small business.

Subject: Sports & Entertainment Marketing (fall)

Year Offered: 10, 11, 12
Prerequisite: None (Intro to Business recommended)
Length of Course: 1 semester
Credit: ½ credit

Course Description: This course focuses on marketing and advertising products to the consumer. Content will be based on real world examples in sports, entertainment and advertising. Topics covered include marketing research, product planning, purchasing, distribution, pricing, promotion, and advertising in relation to sports and entertainment.

Subject: Sports & Entertainment Management (spring)

Year Offered: 10, 11, 12

Prerequisite: None (Intro to Business recommended)

Length of Course: 1 semester

Credit: ½ credit

Course Description: This course focuses on management and teaches students about leadership, finance, product management, people management, information management, legal and ethical issues, customer relations, sales management, managing change, & career development in relation to sports and entertainment.

ENGLISH CURRICULUM

Department statement: Course descriptions are not intended to lock a student into a certain track. A student will be evaluated each semester to assure he/she is in the course that best fits his/her effort and ability.

Note: Students enrolled in Advanced English should have a C or above or the consent of the teacher to remain or be placed in Advanced English courses.

Any student who does not meet the requirements of a research paper as designated in writing in advance by the teacher will not receive credit for the course that semester. In addition, any student who fails a semester of English because of not meeting the research paper requirements may not take the night class without submitting a paper that would meet the requirements of the English teacher.

Subject: Foundations of English I

Year Offered: 9
Prerequisite: None
Length of Course: 1 year
Credit: 1 credit

Course Description: This course is directed to the student who has experienced special difficulties in reading and grammar. The purposes of the course are to improve the reading level through short story, nonfiction, fiction, poetry, epic, drama, and the novel. Students will also improve vocabulary, grammar, and spelling, composition skills while increasing the student's appreciation and understanding of literature and writing. Essay writing is assigned. A research paper is also required. Students will read and study the following pieces of literature: **That Was Then, This Is Now; Tears of a Tiger; The Odyssey; and Romeo & Juliet.** Various projects related to areas of study will also be assigned.

Subject: English I

Year Offered: 9
Prerequisite: None
Length of Course: 1 year
Credit: 1 credit

Course Description: This course includes the introduction to various types of literature, basic grammatical, writing, spelling, and vocabulary skills. Areas of literature studied include the following: short story, nonfiction, nonfiction, poetry, the epic, drama, and the novel. Essay writing is assigned. A research paper is also required. Students will read and study **To Kill a Mockingbird, Tears of a Tiger, Romeo & Juliet, and The Odyssey.** Various projects related to units studied will also be assigned.

Subject: Advanced English I

Year Offered: 9
Prerequisite: None
Length of Course: 1 year
Credit: 1 credit

Course Description: This course includes the study of world literature, traditional grammar, composition, and vocabulary. Additional reading is encouraged, with an emphasis on the in-depth study of **Romeo & Juliet, The Odyssey, To Kill a Mockingbird, The Pact and The Absolutely True Diary of a Part-Time Indian.** Writing is stressed and assigned in the form of a comparison/contrast paper, a narrative, and a short expository research paper. Journal writing is incorporated throughout the year. Various projects related to units studied will also be assigned. Students will be expected to identify literary terms introduced during the freshman year in their subsequent advanced English classes.

Subject: Foundations of English II

Year Offered: 10
Prerequisite: None
Length of Course: 1 year
Credit: 1 credit

Course Description: This course is directed to the student who has experienced special difficulties in reading and grammar their freshmen year. The purposes of the course are to improve the reading level through short story, nonfiction, fiction, and the novel. Students will also improve vocabulary, grammar, and spelling, composition skills while increasing the student's appreciation and understanding of literature and writing. Essay writing is assigned. A research paper is also required. Students will read and study the following pieces of literature: **Night** and **A Long Way Gone**. Various projects related to areas of study will also be assigned.

Subject: English II

Year Offered: 10
Prerequisite: None
Length of Course: 1 year
Credit: 1 credit

Course Description: During the English course at the sophomore level, emphasis is placed on writing, traditional grammar, and world literature. Students will write papers of exposition, description, and cause/effect, one of which will be a research paper. Students will also study two novels in depth, study a poetry unit, and read **Julius Caesar**.

Subject: Advanced English II

Year Offered: 10
Prerequisite: None
Length of Course: 1 year
Credit: 1 credit

Course Description: In this course, the study of **World** literature will focus on sharpening reading skills whereby students will support their comprehension of assigned works by citing textual passages as support. Besides cause/effect research papers, writing skills will be honed through essays and narratives. Sentence structure, academic vocabulary, *English Simplified* elements, and grammar will round out the course.

Subject: Foundations of English III

Year Offered: 11
Prerequisite: None
Length of Course: 1 year
Credit: 1 credit

Course Description: American literature will be presented through the study of short stories, dramas, novels, and poetry including **The Absolutely True Diary of a Part-Time Indian, The True Confessions of Charlotte Doyle, and The Pact**. Emphasis will be placed on basic grammar, spelling and vocabulary. Sentence structure will be addressed through the writing of journals, expository and persuasive essays, and a short research paper.

Subject: English III

Year Offered: 11
Prerequisite: None
Length of Course: 1 year
Credit: 1 credit

Course Description: English III is designed to continue the foundations in grammar, composition, vocabulary, American literature, speech, and mass communications. Students may do journal writing and also will write papers of literary analysis, critical review, and persuasion. A documented research paper on an approved topic will also be written. The study of American literature will include drama, poetry, the novel, the short story, and nonfiction. The novels **The Old Man and the Sea** and **The Catcher in the Rye** will be read and studied. Projects related to units studied may also be assigned.

Subject: Advanced English III

Year Offered: 11
Prerequisite: None
Length of Course: 1 year
Credit: 1 credit

Course Description: Advanced English III is designed to provide students with the English skills needed for success in college. Areas studied include composition, American literature, grammar, and vocabulary. Students will do multi-paragraph papers of literary analysis, critical review, and persuasion. A research paper is required. The areas of American literature studied will include drama, poetry, the novel, the short story, and nonfiction. Some of the novels read include **The Great Gatsby**, **The Scarlet Letter**, **Tuesdays With Morrie**, and **The Crucible**. Related projects will be assigned with these books, along with other projects dealing with technology, current events, and modern American literature.

Subject: Foundations of English IV

Year Offered: 12
Prerequisite: None
Length of Course: 1 year
Credit: 1 credit

Course Description: Practical adaptations of British literature will go hand-in-hand with studies of sentence structure. Emphasis will be placed on basic grammar, spelling, and vocabulary. In addition, students will master the concept of writing resumes and cover letters. Students will write a 5 paragraph research paper. The novel **Something for Joey**, the play **Macbeth**, and the poem **Beowulf** will be studied.

Subject: English IV

Year Offered: 12
Prerequisite: None
Length of Course: 1 year
Credit: 1 credit

Course Description: Studying a variety of poems, essays, short stories, and plays that have become classics in English and world literature, students will be introduced to the relevance of reading in everyday life. A documented research paper and literary analyses will be required. In addition, vocabulary and assignments, journal writing, grammar exercises, and formal presentations will round out the course. Students will study the novels **Harry Potter and the Sorcerer's Stone** and **Animal Farm** the play **Macbeth**, and the poem **Beowulf**. Projects related to units studied will also be assigned.

Subject: Advanced English IV

Year Offered: 12

Prerequisite: Advanced English III

Length of Course: 1 year

Credit: 1 credit

Course Description: Designed for the serious student who desires to attend a junior or four-year college, this course will explore English and world literature. The emphasis of instruction will stress the importance of critical thinking, co-operative learning, and self motivation as they relate to retention and application of material. Using styles introduced in *English Simplified*, students will concentrate and expand on various styles of writing presented the previous years. A variety of writing assignments are required in addition to the research paper. Vocabulary units will be an ongoing requirement of the course. Summer reading of **1984** is required. The novel **Great Expectations**, the play **Macbeth**, and the poem **Beowulf** will also be studied.

Subject: AP Senior English

Year Offered: 12

Prerequisite: Advanced English III, recommendation of previous English teachers, and class rank in top 30

Length of Course: 1 year

Credit: 1 credit

Course Description: AP Senior English, designed for the college-bound student, is a weighted course that places emphasis on the rigors of studying. Students are expected to analyze a variety of literary works including novels, dramas, poetry, short stories, and essays; these assignments may be accomplished through testing and/or impromptu essays. Vocabulary and sentence structure will be stressed throughout the year. In addition to a research paper, students will be expected to do a myriad of outside reading and writing. In May, students will be encouraged to take the advanced placement exam, which could result in receiving college credit. Over the summer students must read **Great Expectations** plus one book for a critical review.

The grading scale for AP English is as follows:

A = 6.00 B = 5.00 C = 3.00 D = 2.00 F = 1.00

ENGLISH ELECTIVES

Subject: Journalism

Year Offered: 10, 11, 12

Prerequisite: C or above in English

Length of Course: 1 semester

Credit: ½ credit

Course Description: Journalism is designed to train students to work on the school newspaper and yearbook. Students will be introduced to a variety of types of writing, such as news, feature, sports, or editorial. In addition, students will write headlines and captions plus design layouts for the newspaper and yearbook. Anyone taking this course should have a strong desire to improve his/her writing skills while adjusting to the rigorous demands of meeting publication deadlines. To be able to go to Publications, the student must earn an A and have the teacher's recommendation. Note: This is not a creative writing class.

Subject: Publications

Year Offered: 11, 12

Prerequisite: 35 spots per year; A in Journalism and consent of the instructor; remaining openings will go to those with an A in Advanced English II.

Length of Course: 1 year

Credit: 1 credit

Course Description: Students enrolled in Publications will be responsible for the production of the school newspaper and the yearbook. Student deadlines must be met as the individual writes stories, captions, and headlines; takes photos; creates layouts; and finishes production of the publications. Students must earn at least a B to stay in the class.

Subject: Speech I

Year Offered: 10, 11, 12

Prerequisite: None

Length of Course: 1 semester

Credit: ½ credit

Course Description: Students enrolled in Speech I should have an interest in two areas: oral interpretation and public speaking. In oral interpretation, the students will find a prose selection, a verse program, and a dramatic selection to analyze and perform to the class. Study will also be made of communication theory. This unit will also involve exercises in diction and listening. In public speaking, students will prepare and deliver speeches designed to demonstrate, inform, and persuade. In addition, study will be made of audience analysis.

Subject: Advanced Speech

Year Offered: 11, 12

Prerequisite: Grade of C or better in Speech I

Length of Course: 1 semester

Credit: ½ Credit

Course Description: This course would offer students an opportunity to go beyond the basic theory of speech communication and explore other related activities. Students will study and participate in discussion, argumentation and debate. Drama and acting will be taught to a limited extent, and students will take part in the production of a reader's theater presentation. Each student will write and perform a radio broadcast after studying radio and television production. If time allows, each student will take part in producing a thirty-minute television program. In pairs, students will act out a scene from a play. Students will present impromptu speeches on a regular basis. Students will study special speaking occasions and give a speech to a special occasion.

WORLD LANGUAGE CURRICULUM

Everyone who thinks they may go on to college should have a minimum of two years of a world language. Four years of High School world language can often exempt students from college world language which is much more difficult.

Subject: Spanish I

Year Offered: 9, 10, 11, 12

Recommended Prerequisite: At least a C average in English is highly recommended.

Length of Course: 1 year

Credit: 1 credit

Course Description: This course offers an introduction to listening, speaking, reading and writing in Spanish. Vocabulary acquisition is stressed as well as learning basic grammar concepts. Each lesson contains cultural information. A variety of activities are used to enhance learning.

Subject: Spanish II

Year Offered: 10, 11, 12

Recommended Prerequisite: At least a C average in Spanish I.

Length of Course: 1 year

Credit: 1 credit

Course Description: Spanish II is a continuation of Spanish I and, as such, includes more intensive study and practice in listening, speaking, reading, writing and vocabulary, expanding on what was learned in Spanish I. Grammar will be stressed and will be supplemented with cultural videos and activities.

Subject: Spanish III

Year Offered: 11, 12

Prerequisite: At least a C in Spanish II. Must have a C or better 1st semester to continue 2nd semester.

Length of Course: 1 year

Credit: 1 credit

Course Description: Spanish III is a continuation of Spanish II and includes very intensive study and practice in listening, speaking, reading, writing and vocabulary. After successful completion of this course, students will be well equipped to apply their communication skills in Spanish IV.

Subject: Spanish IV /Duel Credit KCC Spanish 1514

Year Offered: 12

Prerequisite: At least a C in Spanish III. Must have a C or better 1st semester to continue 2nd semester.

Length of Course: 1 year

Credit: 1 credit and 4 hours of college credit

Course Description: Semester one provides daily practice in the skills you have learned during the first three years of Spanish. Many activities will be provided to immerse you in the Hispanic language and culture. During the second semester, the course will be dual credit with KCC. You will also plan and teach simple lessons in Spanish to grade school students. At the end of four years of Spanish you should be well prepared to take the university placement or CLEP tests.

MATHEMATICS CURRICULUM

Subject: Algebra 1A

Year Offered: 9, 10, 11

Prerequisite: Appropriate knowledge of basic mathematical operations

Length of Course: 1 year

Credit: 1 credit

Course Description: This course is a Pre-Algebra course designed for the student who has essentially developed the basic math skills but may need review, drill and application in order to transition to Algebra 1B. Many examples and problem-solving applications are used to stress understanding of these basic skills.

Subject: Algebra IB-Double Block

Year Offered: 9, 10, 11, 12

Prerequisite: Junior High Pre Algebra or Alg 1A.

Length of Course: 1 year

Credit: 2 credit

Course Description: Algebra is a logical development of mathematical knowledge and procedures. Applications of this study are used in physics, economics, and linguistics. The Algebra IB course is designed to help students understand the basic structure of equations and functions. Students will solve linear equations, linear inequalities, and systems of equations, and be able to utilize the structure of equations to recognize properties of mathematics. Students will also delve into properties of linear, exponential and quadratic functions by comparing and contrasting function properties, transforming functions to reveal equivalent structures, and solving applications by choosing and applying the appropriate functional model. Finally, students will gain a firm grasp of mathematical vocabulary to be used when describing the mathematics they are performing.

This course is a special double-block course which will meet with students for two consecutive periods every day. This course is structured to provide students additional teacher and small group in an effort to help build stronger foundational skills and provide additional time to explain concepts in a different way. A student will receive a math credit for the first period and an elective credit for the 2nd period.

Subject: Algebra IB

Year Offered: 9, 10, 11, 12

Prerequisite: Alg IA or Junior High Pre Algebra

Length of Course: 1 year

Credit: 1 credit

Course Description: Algebra is a logical development of mathematical knowledge and procedures. Applications of this study are used in physics, economics, and linguistics. The Algebra IB course is designed to help students understand the basic structure of equations and functions. Students will solve linear equations, linear inequalities, and systems of equations, and be able to utilize the structure of equations to recognize properties of mathematics. Students will also delve into properties of linear, exponential and quadratic functions by comparing and contrasting function properties, transforming functions to reveal equivalent structures, and solving applications by choosing and applying the appropriate functional model. Finally, students will gain a firm grasp of mathematical vocabulary to be used when describing the mathematics they are performing.

Subject: Geometry

Year Offered: 10, 11, 12
Prerequisite: Algebra 1B
Length of Course: 1 year
Credit: 1 credit

Course Description: Students develop thinking patterns by examining mathematical relationships involving lines, angles, surfaces, solids, triangles, quadrilaterals, and circles. Geometry will challenge the student to use inductive and deductive reasoning for problem solving and guided geometric proofs. Students will also be introduced to trigonometry.

Subject: Advanced Geometry

Year Offered: 9, 10, 11, 12
Prerequisite: Pass Algebra 1B with a B or better; or Teacher approval
Length of Course: 1 year
Credit: 1 credit

Course Description Students develop thinking patterns by examining mathematical relationships involving lines, angles, surfaces, solids, triangles, quadrilaterals, and circles. Advanced Geometry will challenge the student to use inductive and deductive reasoning for problem solving, and provide clear communication of their reasoning. Use of formal proofs will also be developed by using the various types: two-column, coordinate, flow, indirect, and paragraph. Students will also be introduced to trigonometry.

Subject: Algebra II

Year Offered: 10, 11, 12
Prerequisite: Geometry
Length of Course: 1 year
Credit: 1 credit

Course Description: Algebra II is an extension of Algebra 1B and Geometry. New topics covered include complex numbers, polynomial functions, radical functions, exponential functions, logarithmic functions, and probability.

Subject: Advanced Algebra II

Year Offered: 10, 11, 12
Prerequisite: Pass Advanced Geometry with a B or better; or Teacher approval
Length of Course: 1 year
Credit: 1 credit

Course Description: This course is an advanced - level Algebra II course. In addition to covering more topics than Algebra II, the pacing will be more rigorous. Upon successful completion of this course, students should progress to College Algebra & Trigonometry.

Subject: Finite Math

Year Offered: 11, 12

Prerequisite: Alg II

Length of Course: 1 year

Credit: 1 credit

Course Description: This is a college level class that stresses the importance of mathematics in your everyday life. The first semester covers logical thinking skills, sets, logic, various base numeration systems, number theory and the real number system as well as Algebra review of graphs and functions. The second semester will review knowledge of systems of linear equations and inequalities, the metric system, basic geometry, be introduced to three mathematical systems, consumer mathematics and probability. Further work with statistics, graph theory, voting and apportionment may also be included.

This course is designed to serve as a bridge between high school and college. Emphasis is placed upon problem solving, real world applications, and abstract thinking. Some concepts covered in this course provide students with experience in college level reasoning and the ability to extend beyond the typical high school curriculum.

Subject: AP Statistics

Year Offered: 12

Prerequisite: Algebra II and top 25 of the senior class

Length of Course: 1 year

Credit: 1 credit

Course Description: The purpose of the Statistics course is to introduce students to the major concepts and tools of collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, planning a study, anticipating patterns, and statistical inference. The course also focuses on mathematical reasoning and the solving of real life problems. Students will be expected to take the AP Exam upon completion of this course.

Subject: Pre-Calculus

Year Offered: 11, 12

Prerequisite: Algebra II

Length of Course: 2 semester

Credit: 1 credit

Course Description: This course is designed to prepare students for an elementary Calculus course. The course will begin with a comprehensive study of topics from Algebra and Trigonometry and conclude with introductory topics of analytic geometry and calculus. In addition to introducing students to terminology and concepts essential to the study of Calculus, this course should also help students develop reasoning and analytical skills which may be applied to problems outside the typical realm of mathematics.

Subject: Analytic Geometry/Calculus-Intro

Year Offered: 12

Prerequisite: Pre-Calculus

Length of Course: 1 semester

Credit: ½ credit

Course Description: The term analytic geometry can be loosely translated to mean "a study of geometry by algebraic techniques." The course work emphasizes on the study of graphs, both linear and polar. Also emphasized is a study of conic sections by type equation and loci and use of translations and rotations. Students will be introduced to applications of the derivative and differential and integral calculus.

Subject: Calculus (KCC Dual –credit class)

Year Offered: 12

Prerequisite: Pre-Calculus

Length of Course: 1 semester

Credit: ½ credit and 5 hours college credit

Course Description: Derivatives and integrals are carefully developed as applications of the limit concept. These ideas are extended to algebraic, trigonometric, and logarithmic functions. A strong emphasis is given to applications in physics, geometry, and other sciences.

Subject: Programming I

Year Offered: 10, 11, 12

Prerequisite: B or better in Algebra 1A

Length of Course: 1 semester

Credit: ½ credit

Course Description: This course is designed as a beginning course in computer programming. Students will develop program logic and design programs using structured programming techniques and the design tools. Programming topics of variables, arithmetic operations, looping, data, and graphics will be used in both business and math applications. The program designs will be implemented using the Q-Basic language. Current events and careers related to the computer field will also be discussed.

Subject: Programming II

Year Offered: 10, 11, 12

Prerequisite: Programming I

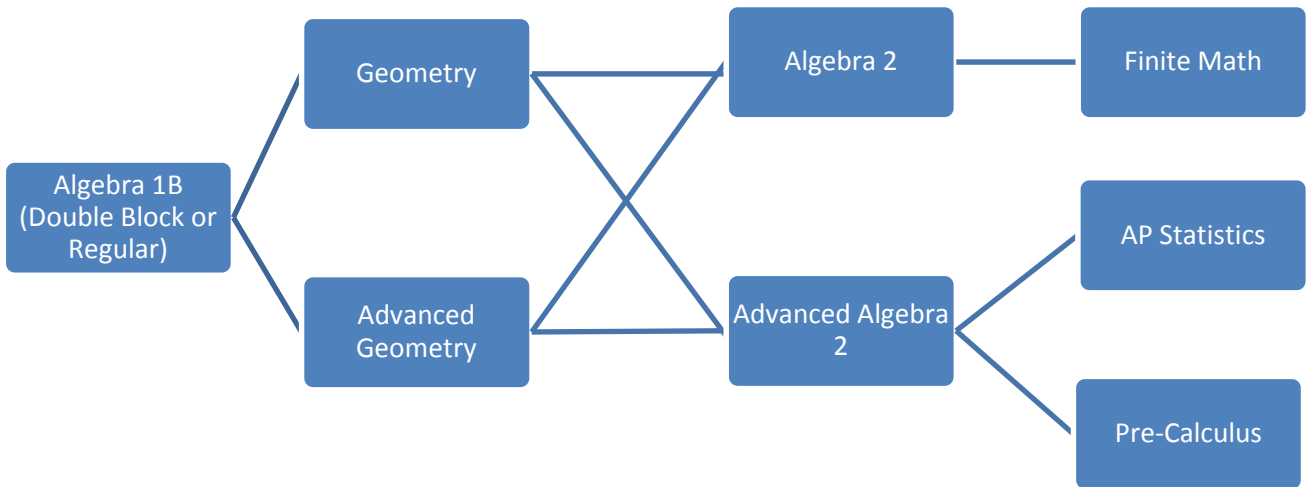
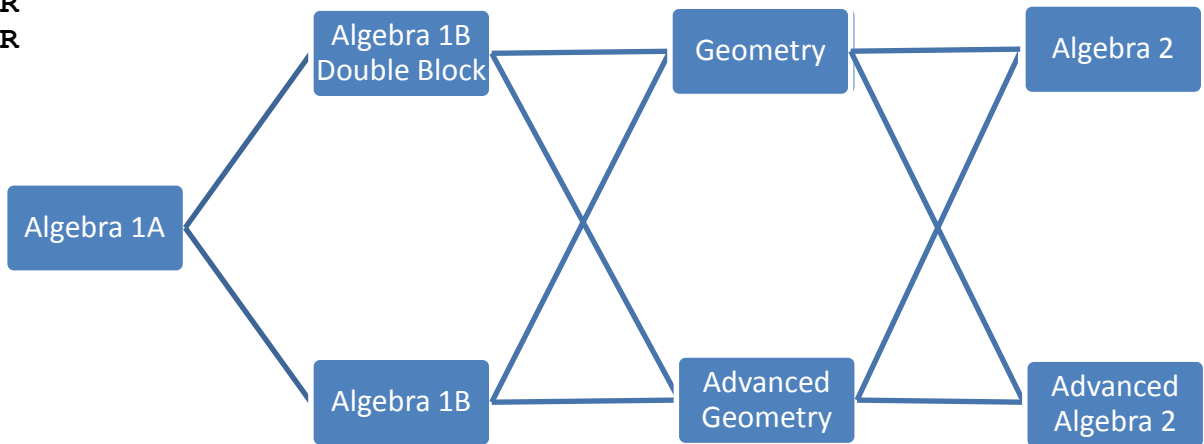
Length of course: 1 semester

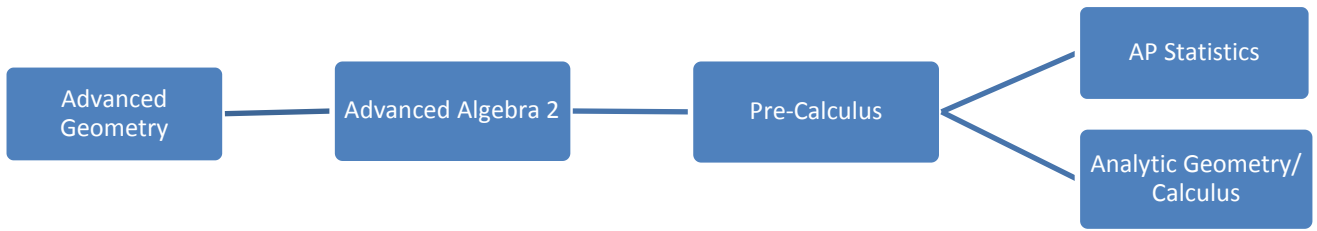
Credit: ½ credit

Course Description: This course is designed for the serious programming student. The course will stress Visual Basic structured programming. Programming topics will include methodology, design, coding, and documentation. Features not limited to data structures, block structures, expressions, assignments and sub programs will be present. Social implications of computing, current events, and careers will be discussed.

Mathematics Course Sequences

FRESHMAN
SOPHOMORE
JUNIOR
SENIOR





PHYSICAL AND HEALTH EDUCATION

Subject: Physical Education/Health

Year Offered: 9, 10, 11, 12

Prerequisite: None

Length of Course: 1 year

Credit: 1 credit

Course Description: Each physical education semester will consist of four units with each unit lasting approximately four weeks. Units will consist of skills presentation, skills practice, rules and strategy discussions, game and tournament play, a skills test and a written test. Typical units that will be covered in physical education are flag football, soccer, volleyball, pickle ball, basketball, team handball, badminton, softball, and fitness.

Health Education is a semester of physical education taken during the freshman year. It covers a number of areas that students should be exposed to. These areas are: personal hygiene, positive mental health, stress management, physical fitness, human sexuality, drug education, and CPR.

Subject: Athletic Training

Year Offered: 10, 11, 12

Prerequisite: None

Length of Course: 1 year

Credit: 1 credit

Course Description: Each athletic weight training semester will consist of daily activities designed to develop athletic fitness. Weight lifting activities will be routinely performed on Mondays, Wednesdays, and Fridays throughout the semester. A department-wide workout program will be used for weight training activities. Tuesday and Thursday activities will consist of various cardiovascular, pyrometric, speed training, and abdominal workouts. The students will be expected to document all weight training activities on a chart provided by the instructor. Instruction in weight lifting techniques, exercise principles, and the positive effects of exercise on overall fitness and well-being will be provided. The students will be expected to demonstrate knowledge in these areas on written tests and skills tests.

Subject: Driver Education

Year Offered: 9, 10, 11

Prerequisite: State Requirements

Length of Course: 9 weeks

Credit: Included in P.E. credit

Course Description: Herscher High School offers both classroom and behind-the-wheel courses in driver education. The classroom segment of the course consists of nine weeks of instruction on driving techniques, rules, state regulations, and proper attitude. The behind-the-wheel portion of the class includes 6 hours of actual driving time divided into 12-14 sessions. This course strictly follows state guidelines for driver's education.

A \$20 fee is collected and turned over to the Secretary of State for the students' instruction permit and their first drivers' license. A \$150 fee is collected at the time of Freshman registration for the students' Behind the Wheel instruction.

SCIENCE CURRICULUM

Subject: Biology

Year Offered: 9
Prerequisite: None
Length of Course: 1 year
Credit: 1 credit

Course Description: One-year life science course. Biology presents an integrated view of the essential units of life both structurally and functionally. Concepts will be applied through laboratory experiences. Units covered in Biology I are: The Nature of Life; Ecology; Cells; Genetics; Evolution; From Microorganisms to Plants; Animals; The Human Body; and The Diversity of Life

Subject: Advanced Biology

Year Offered: 9
Prerequisite: This course requires prior life science knowledge and maturity and study skill levels beyond those of most freshmen.
Technology Requirement: Access to a computer with Internet required for utilization of online collaboration tools, among other enrichment activities and assignments
Length of Course: 1 year
Credit: 1 credit

Course Description: One-year life science course. Biology presents an integrated view of the essential units of life both structurally and functionally. Concepts will be applied through laboratory experiences. The focus in this course will be on critical thinking, experimental design, laboratory procedures, reading and writing in science, and the use of technology while exploring scientific topics of student interest. Units covered in Biology I are: The Nature of Life; Ecology; Cells; Genetics; Evolution; From Microorganisms to Plants; Animals; The Human Body; and The Diversity of Life.

Subject: Physical Science

Year Offered: 10, 11
Prerequisite: None
Length of Course: 1 year
Credit: 1 credit

Course Description: One-year physical science course. Physical Science presents an integrated view of the essential units of Chemistry, Physics, & Earth and Space Science. Concepts will be applied through laboratory experiences. Units covered in Physical Science include:

- **Chemistry:** Properties and States of Matter; Chemical Bonds & Reactions; Solutions, Acids and Bases; Carbon Chemistry; and Nuclear Chemistry
- **Physics:** Forces & Motion; Work, Power, and Machines; Energy; Electricity; and magnetism.
- **Earth & Space Science:** Earth's Interior and Surface; Weather and Climate; Solar System; and Exploring the Universe.

Subject: Advanced Physical Science

Year Offered: 10, 11

Prerequisite: Biology or Advanced Biology

Length of Course: 1 year

Credit: 1 credit

Course Description: One year physical science course. Physical Science presents an integrated view of the essential units of Chemistry, Physics, & Earth and Space Science. The focus in this course will be on critical thinking, experimental design, laboratory procedures, reading and writing in science, and the use of technology while exploring scientific topics of student interest. Concepts will be applied through laboratory experiences.

Units covered in Physical Science include:

- **Chemistry:** Properties and States of Matter; Chemical Bonds & Reactions; Solutions, Acids, and Bases; Carbon Chemistry; and Nuclear chemistry.
- **Physics:** Forces & Motion; Work Power, and Machines; Energy; Electricity; and Magnetism.
- **Earth and Space Science:** Earth's Interior and Surface; Weather and climate; Solar System; and Exploring the Universe.

Subject: Environmental Science

Year Offered: 10 – 12 (10 with Teacher/Guidance Approval)

Prerequisite: Passing Biology or Physical Science

Length of Course: 1 year

Credit: 1 credit

Course Description: Environmental Science is the study of applied and theoretical aspects of human impact on the world. The natural (abiotic and biotic) processes that operate in the world will be examined as well as man's role in sustaining life on planet Earth. Issues such as energy sources and transfer, world biomes, pollution, extinction, human population, and resource needs are all examined. Laboratory investigations and outdoor activities will be emphasized in applying the concepts of environmental science.

Subject: Anatomy & Physiology

Year Offered: 11, 12

Prerequisite: Biology(C or better)

Length of Course: 1 year

Credit: 1 credit

Course Description: This course is devoted to the study of Human Anatomy and Physiology with the goal of preparing the student for post high school related courses. Disorders and abnormal functioning of the body is a significant part of study.

Anatomy and Physiology will be more individualized than previous courses, placing emphasis on student responsibility. Labs will consist mainly of investigating body systems and dissection of cats.

Subject: Basic Chemistry

Year Offered: 10-12 (10 with Teacher/Guidance Approval)

Prerequisite: Algebra IB (C or better)

Length of Course: 1 year

Credit: 1 credit

Course Description: Basic Chemistry covers the fundamental principles of chemistry. Most of the same topics from Chemistry I are discussed in less detail. Chemistry concepts and applications are emphasized more in this

course. Proper math skills are required for measurement and solving equations.

Subject: Chemistry

Year Offered: 10-12 (10 with Teacher/Guidance Approval)

Prerequisite: Algebra IB (C or better), Geometry, and Algebra II (or concurrently).

Length of Course: 1 year

Credit: 1 credit

Course Description: Chemistry is the study of matter and energy. Beginning with the atom, its structure and properties are studied. This leads to bonding to form compounds and reactions from compounds. Much of the course deals with the quantitative aspects of chemistry, (amounts of chemicals and methods of measurement). A good mathematical background is helpful. Other topics covered include behavior of gases, acids, bases, oxidation-reduction reactions, thermodynamics, organic and nuclear chemistry. Chemistry I is suggested for students who plan further study in mathematics or science at a college level.

Subject: Advanced Chemistry

Year Offered: 11, 12

Prerequisite: Chemistry I

Length of Course: 1 semester

Credit: ½ credit

Course Description: Advanced Chemistry provided a continuation of Chemistry I. Applications of the relationships studied in Chemistry I to industry and other situations will be discussed. Further study in organic chemistry, acid-base theory, equilibrium, thermodynamics, and qualitative analysis will be done as time permits.

Subject: Physics I

Year Offered: 11, 12

Prerequisite: Algebra IB, Algebra II, Geometry, Trigonometry required.

Length of Course: 1 semester

Credit: ½ credit

Course Description: The first semester of Physics introduces the student to the relationships between force, mass, motion, and energy. The student will become familiar with such terms as velocity, acceleration, weight, gravity, momentum and the proper terms in which they are measured.

This course will allow the student to apply their skills in Algebra, Geometry and Trigonometry in problem solving. Most of the course is centered around providing mathematical interpretation for scientific principles.

Subject: Physics II

Year Offered: 11, 12

Prerequisite: Algebra IB, Geometry and Algebra II, Physics I or teacher approval

Length of Course: 1 semester

Credit: ½ credit

Course Description: The second semester of Physics will cover the areas of heat, magnetism, fluids, electricity, waves, sound, light, and Einstein's Theory of Relativity.

Unlike Physics I, which builds week by week, the material in Physics II will cover a variety of topics. Scientific phenomena such as the Doppler effect, why a battleship floats, how a lens works, and how a rainbow forms will be explained.

The major emphasis of Physics II will be on concepts.

Subject: Agricultural Science

Year Offered: 10

Prerequisite: Introduction to agriculture

Length of course: 1 year

Credit: 1 credit

Course Description: This course builds skills and knowledge gained in the Introduction to the Agriculture Industry course. Major units of instruction include advanced plant science, soil science, animal science, and agricultural mechanics. Applied science and math skills and concepts will be stressed throughout the course as they relate to each area. The development of leadership, employability and computer skills will also be taught. Because FFA and Supervised Agricultural Experience Proprietorships (SAEP's) are integral components of this course, students are required to conduct a Supervised Agricultural Experience (SAE) at home.

Subject: Biological Science Applications in Agriculture (Plant and Animal Science)

Year Offered: 10, 11, 12

Prerequisite: Ag Science, Biology, or Physical Science

Length of Course: 1 year

Credit: 1 credit

Course Description: This course is designed to reinforce and extend students' understanding of science by associating scientific principles and concepts with relevant applications in agriculture. Students will examine major phases of plant growth and management, and management of major phases of animals in agriculture and the specific biological science concepts that govern management decisions. This course will deepen students' understanding of science as content and as a process through the use of numerous laboratory exercises and experiments. Because FFA and Supervised Agricultural Experience Proprietorships (SAEP's) are integral components of this course, students are required to conduct a Supervised Agricultural Experience (SAE) at home.

Required 2 Years		Optional Upper-level Courses	
<p>Level 1</p> <p>These classes are the introductory classes that should include freshmen and any sophomores who need to repeat one of these classes</p>	<p>Level 2</p> <p>These classes are available to sophomores, juniors, and seniors who have successfully completed a Level One Course</p>	<p>Level 3</p> <p>These classes are available to juniors or seniors who have a strong academic interest in science and may continue at the college level</p>	<p>Level 4</p> <p>These classes are available to juniors or seniors who have a strong academic interest in science and may continue at the college level and have successfully completed the Level 3 corresponding class</p>
<ul style="list-style-type: none"> • Biology <li style="text-align: center;">or • Advanced Biology 	<ul style="list-style-type: none"> • Physical Science • Adv. Physical Sci. 	<ul style="list-style-type: none"> • Anatomy & Physiology • Basic Chemistry • Chemistry • Environmental 	<ul style="list-style-type: none"> • Adv. Chemistry* • Physics I • Physics II

SOCIAL SCIENCE CURRICULUM

Subject: World History I

Year Offered: 9, 10, 11, 12
Prerequisite: None
Length of Course: 1 semester
Credit: ½ credit

Course Description: A study of the ancient world to the building of the nation state. The years are from 5,000 B.C. - A.D. 1789. Class includes group work, a project on a relevant topic, maps, and a variety of other classroom assignments.

Subject: World History II

Year Offered: 9, 10, 11, 12
Prerequisite: None
Length of Course: 1 semester
Credit: ½ credit

Course Description: A study of the beginnings of the nation-state with the French revolution to the modern period. Class includes group work, a project on relevant topic, maps, and a variety of other classroom assignments.

Subject: World Geography (KCC dual – credit class)

Years Offered: 11, 12
Prerequisite: Compass test
Length of course: 1 semester
Credit: ½ credit and 3 hours college credit

Course Description: This course studies major regions of the world, focusing on the relationship of humans with their environment, the movement of people and goods, and the ways regions are formed and undergo change. Major emphasis is placed on the differences between developed and underdeveloped regions of the world.

NOTE: Students receive KCC credit but do NOT pay for tuition. Students will have to purchase a textbook.

Subject: American History I and II

Year Offered: 11
Prerequisite: None
Length of Course: 2 Semesters
Credit: 1 credit

Course Description: During the semester, this class will examine the changes America has undergone from World War I to the Present. The main objective of the course is to see how our country has grown through the study of various groups of people, the things they have done and the results of their actions. We will use the text and various primary sources to uncover the hows and whys of events that shaped America. Map assignments, written work involving the text and Internet sources, and outside projects are used to evaluate and emphasize this approach to learning about our nation. This course is a required course as set forth by the State of Illinois and must be completed satisfactorily in order to graduate.

Subject: AP AM. History I and II

Year Offered: 11
Prerequisite: Top 25 ranked students
Length of Course: 2 Semesters
Credit: 1 credit

Course Description: This AP AM. History class is designed to prepare Herscher High School students to take the AP test. This advanced class will survey U. S. History from the age of exploration to the present. Students will be expected to have read the assigned books and chapters by the first day of class.

The grading scale for AP US History I and II is as follows:
A = 6.00 B = 5.00 C = 3.00 D = 2.00 F = 1.00

Subject: Sociology

Year Offered: 11, 12
Prerequisite: None
Length of Course: 1 semester
Credit: ½ credit

Course Description: Sociology studies human society and social behavior by studying groups rather than individuals. This one semester course teaches students to look at life in a scientific, systematic way. The values, beliefs, and lifestyles of those around us, as well as historic events, help to mold us into unique individuals who have varied outlooks on social life. This course deals with the social atmosphere that helps to make us who we are and how we behave. The key component of this course is to study ourselves and the society that influences our behavior. It is crucial that students emerge from sociology with the ability to recognize and examine how groups and social structures influence the way that individuals think, feel, and act. Major topics include cultural variances, deviance and social control, gender and age, family and marriage, poverty, and religion.

Subject: Civics

Year Offered: 12
Prerequisite: None
Length of Course: 1 semester
Credit: ½ credit

Course Description: This is a course detailing the structure and operation of our national and state government and its modern day problems. Attending a meeting of an elected governmental body, or other important issues is required.

Subject: Economics

Year Offered: 12
Prerequisite: None
Length of Course: 1 semester
Credit: ½ credit

Course Description: This course offers a broad range of subject matter, beginning with the science of economics. Micro versus macro economics, capitalism, supply and demand, price setting, inflation and unemployment, basic functions of the Federal Reserve and forms of economic enterprise are all a focus. Personal finance skills will also be incorporated. Upon completion, students will be able to understand and make reasoned judgments about major economic questions facing society and themselves as a member of our society.

Subject: Psychology

Year Offered: 11, 12

Prerequisite: None

Length of Course: 1 Semester

Credit: ½ credit

Course Description: A one semester basic course designed to acquaint the student with causative factors of human behavior, and to explore the extent to which scientific methods can be applied to human behavior. Areas that will be covered include such things as learning, memory, physiological aspects of behavior, personality, stress, adjustment, abnormal psychology, and death and dying.

Subject: World Geography

Year Offered: 9, 10, 11, 12

Prerequisite: None

Length of Course: 1 semester

Credit: ½ credit

Course Description: World Geography is treated as a social as well as a physical science, and material is brought in from allied social sciences such as history, economics, and civics, so that the student learns how physical geography is related to man and society. A human orientation is one of the main features of World Geography. Regional units are taught with the study of earth as the home of man. Individual nations as well as the region as a whole are discussed. A discussion lecture method is used. Map work for each unit is required.

Career and Technical Education/Vocational

Subject: Child Development I

Year Offered: 10, 11, 12
Prerequisite: None
Length of Course: 1 year
Credit: 1 credit

Course Description: In this course the students will learn about the development of a child. It covers the prenatal stage of life through the pre-school age child. The physical, mental, social, and emotional development areas are studied. A 6-week preschool lab for young children is a major part of the course.

Subject: Child Development II

Year Offered: 11, 12
Prerequisite: A **“C” or better** in Child Development I both semesters **OR Consent of the instructor.**
Length of Course: 1 year
Credit: 1 credit

Course Description: Students will integrate their knowledge and experience from Child Development I to develop advanced lesson planning and teaching; scheduling; room environment; and designing their own preschool or early childhood center. Students will play an active role in setting up Tiger Cub Preschool: marketing and planning for enrollment, communicating with the parents, planning a budget, making the classroom a safe and healthy place and classroom management. Students will complete the Gateways to Opportunity Early Childhood Education Credential Level 1 Program. This credential will allow students to attain a job in a daycare setting and have the opportunity to apply for a college scholarship in early childhood education. This scholarship would cover up to 90% of college costs.

Subject: Clothing I

Year Offered: 9, 10, 11, 12
Prerequisite: None
Length of Course: 1 semester
Credit: ½ credit

Course Description: This course is for the student with no sewing experience. Basic sewing techniques will be learned as well as quick, easy time-saving techniques. The majority of the class time will be spent on the construction of sewing projects. A class lab fee will cover the cost for the use of a basic sewing kit. Students will be responsible for providing all supplies. The average cost of this class is \$50+ that is spent over the semester.

Subject: Clothing II

Year Offered: 10, 11, 12

Prerequisite: A "C" or better in Clothing I **OR Consent of the instructor.**

Length of Course: 1 semester

Credit: ½ credit

Course Description: The purpose of this course is to expand on basic sewing and clothing knowledge. Each student sews at her own pace and selects each project to construct. An introduction to quilting is included. Students will be responsible for providing all supplies. The average cost of this class is \$75+ that is spent over the semester.

Subject: Clothing III

Year Offered: 11, 12

Prerequisite: A "C" or better in Clothing II **OR Consent of the instructor.**

Length of Course: 1 semester

Credit: ½ credit

Course Description: This course covers laboratory experiences involving individual sewing projects. These projects depend on the individual's past sewing experiences. Advanced Clothing students may repeat this course for credit with consent of the instructor providing room is available. Students will be responsible for providing all supplies. The average cost of this class is \$75+ that is spent over the semester.

Subject: Clothing IV

Year Offered: 11, 12

Prerequisite: A "C" or better in Clothing III **OR Consent of the instructor.**

Length of Course: 1 semester

Credit: ½ credit

Course Description: This course covers laboratory experiences involving individual sewing projects. These projects depend on the individual's past sewing experiences. Advanced Clothing students may repeat this course for credit with consent of the instructor providing room is available. Students will be responsible for providing all supplies. The average cost of this class is \$75+ that is spent over the semester.

Subject: Foods I

Year Offered: 9, 10, 11, 12

Prerequisite: None

Length of Course: 1 semester

Credit: ½ credit

Course Description: This course will emphasize basic food preparation skills and nutrition. Units of instruction will include: basic measuring techniques, equipment, recipe math, terminology, nutritive value of foods, making wise food choices and career exploration. Students will plan, prepare and serve a variety of food to supplement the class work.

Subject: Foods II

Year Offered: 9, 10, 11, 12

Prerequisite: Completion of Foods I with a C or better or consent of instructor.

Length of Course: 1 semester

Credit: ½ credit

Course Description: Students will continue the study of nutrition and more advanced food preparation skills. Menu-planning, food purchasing, and meal preparation will be included. Careers in the food industry will be explored. The Foods I textbook and workbook will be used in this class.

Subject: Bakery and Business

Year Offered: 10, 11, 12

Prerequisite: C or better in Foods I and II

Length of Course: 1 semester

Credit: ½ credit

Course Description: In this course, students will gain skills in advanced baking and pastry arts as well as learn the business side of professional baking. Developing a menu, pricing, marketing, trying to make a profit, and other business strategies will be utilized in managing a bakery business.

Subject: Food Service Management

Year Offered: 10, 11, 12

Prerequisite: C or better in Foods I and II

Length of Course: 1 semester

Credit: ½ credit

Course Description: Students will gain skills in professional food service and management. Advanced cooking techniques, along with business strategies, will be utilized for catering projects and a dinner-theater for the spring play. A unit on food sanitation and safety will help prepare students taking the food sanitation course and exam.

Subject: Family Living

Year Offered: 11,12

Prerequisite: None

Length of Course: 1 semester

Credit: ½ Credit

Course Description: The emphasis in this course is on human development from adolescence through maturity and on relationships with others. Areas covered will include growth and development, self-understanding, relationships with family members, others, and career opportunities.

Subject: Parenting

Year Offered: 10, 11, 12 or with consent of instructor

Prerequisite: None

Length of Course: 1 semester

Credit: ½ credit

Course Description: This course is designed to help students realize the rewards and responsibilities of parenthood. Students will learn skills needed to care for, nurture, and guide young children as well as how to handle common problems. Resources and support systems for parents will be explored. A 6-week preschool lab for young children is a major part of the course.

Subject: Interior Design

Year Offered: 11,12
Prerequisite: None
Length of Course: 1 semester
Credit: ½ credit

Course Description: This course focuses on the following broad areas of emphasis in relation to socioeconomic factors, trends, personal tastes and physical and psychological needs. Topics for study include housing selection, interior home design, floor planning, selection of home furnishings, selection and use of accessories, and related career opportunities.

Subject: Independent Living

Year Offered: 11 12
Prerequisite: None
Length of Course: 1 semester
Credit: ½ credit

Course Description: This course is designed to prepare the student to be a wise consumer in today's complex marketplace and efficiently manage time, money, and human resources for the successful operation of the home. Emphasis is placed on management of personal and financial resources, credit buying, and comparison- shopping. The student will learn rights and responsibilities as a consumer and the protection provided by consumer laws.

Subject: Technology Education

Year Offered: 9, 10, 11
Prerequisite: None
Length of Course: 1 year
Credit: 1 credit

Course Description: Technology Education is an orientation level course that introduces students to a variety of skills and career fields. Students will learn the technical processes, learn to use the technical resources, and learn to weigh the technological impacts of technology through the following activities:
Transportation Alternative energy Computer Aided Drafting
Computer repair Electronics Manufacturing Products
Materials Processing Small Engines Welding
Engineering towers Construction Robotics
Computer graphics Computer Animation Plumbing
Electricity Wood working Home repair
CNC Manufacturing Energy, Power, & Mechanics
All areas will include individual hands on experience.
Project & Materials Fee: \$20.00

Subject: Electricity

Year Offered: 10, 11, 12
Prerequisite: Algebra 1A or consent of the instructor
Length of Course: 1 semester
Credit: ½ credit

Course Description: This course will include electrical principles, house and residential wiring. This course is comprised of learning activities and experiences for training students in using, selecting troubleshooting and installing electrical wiring material. It will include using and maintaining electric motors and wiring and electric motor controls.

Subject: Drafting I

Year Offered: 10, 11, 12

Prerequisite: Technology Education

Length of Course: 1 semester

Credit: ½ credit

Course Description: This course begins by expanding on the basic principles learned in the Technology Education Drafting section. Through five weeks of Mechanical Drafting including multi-view and pictorial drawings. This course will also explore the advantages and disadvantages of computer-aided drafting. Using the CAD system students will draw both Mechanical and Architectural images, manage and maintain a file manager, and efficiently and comfortably utilize a CAD system.

Subject: Drafting II

Year Offered: 10, 11, 12

Prerequisite: Drafting I

Length of Course: 1 semester

Credit: ½ credit

Course Description: This course introduces students to several computer and graphics processes. Advanced CAD along with Animation, Computer Numerical Controlled (CNC), and community planning projects are all included. Technical reading and comprehension along with resource skills are heavily utilized in this course.

Subject: Construction Processes

Year Offered: 10, 11, 12

Prerequisite: Technology Education

Length of Course: 1 semester

Credit: ½ credit

Course Description: The Construction Processes course will cover the different areas of the finish and rough construction industry along with the landscaping industry. Laboratory experiences will deal with hands on experiences, which are similar to what is being used in today's industry. The students will learn steps which can be used in order to improve, remodel, or build their future home. Topics will include framing, wiring, insulation, paneling, dry walling, finishing, and landscaping a home and commercial industry.

Materials charge \$50

Subject: Production Technology

Year Offered: 10, 11, 12

Prerequisite: Technology Education

Length of Course: 1 semester

Credit: ½ credit

Course Description: Properly using hand and machine tools, students will learn a basic understanding of the cabinet making process. Each student will construct their own simple cabinet. Students will learn to utilize a proper plan of procedure and a bill of materials. They will be able to select and identify materials about wood and wood products.

Students will be able to apply knowledge and perform the following processes and procedures: Measurement and layout, wood joints, proper gluing and clamping, fasteners and assembly, and finally sanding and finishing a project.

Project & material fees \$50

Subject: Power Technology 1

Year Offered: 10, 11, 12

Prerequisite: Technology Education

Length of Course: 1 semester

Credit: ½ credit

Course Description: The course has two facets, welding and automotive. The emphasis is on skills in electric welding and oxyacetylene cutting. There will be classroom instruction on welding theory and safety principles as well as practical experience. This course is also designed to foster awareness and understanding of various forms of energy used in transportation vehicles, explore power transfer devices and expose students to the mechanical means of distribution of energy. Topics introduced in the classroom with hands on activities in the lab.

Subject: Power Technology II

Year Offered: 10, 11, 12

Prerequisite: Power Technology 1

Length of Course: 1 semester

Credit: ½ credit

Course Description: This course will review materials learned in Power Tech 1 as well as proper safety procedures in the laboratory. Students will focus on a project that involves designing, engineering, mock up and production of a multi-faceted endeavor.

Subject: Horticulture Production and Management

Year Offered: 11, 12

Prerequisite: Introduction to Agriculture recommended

Length of Course: 1 semester (Spring)

Credit: ½ credit

Course Description: This advanced course offers instruction in both the floriculture and landscape areas of horticulture. Units of study include plant identification, greenhouse management, culture of greenhouse crops, care and handling of cut flowers, and floral design. Also included are landscape design, installation, and maintenance; horticulture mechanics; nursery management; and turf production. Agribusiness units will cover operating horticultural business, pricing work, advertising and sales. Because FFA and Supervised Agricultural Experience Proprietorships (SAEP's) are integral components of this course, students are required to conduct a Supervised Agricultural Experience (SAE).
Materials charge.

Subject: Introduction to the Agriculture Industry

Year Offered: 9, 10

Prerequisite: None

Length of Course: 1 year

Credit: 1 credit

Course Description: This orientation course provides an opportunity for students to learn how the agricultural industry is organized; its major components; the economic influence of agriculture at state, national and international levels; and the scope and types of job opportunities in the agricultural field. Basic concepts in animal science, plant science, soil science, horticulture, natural resources, agribusiness management, agricultural mechanics, biotechnology, food science technology, environmental science and aquacultural science will be presented. The development of leadership, employability, and computer skills will also be taught. Because FFA and Supervised Agricultural Experience programs (SAEP's) are integral components of this course, the student is required to conduct a Supervised Agricultural Experience (SAE) at home and become a member of the FFA.

Subject: Agricultural Business Management 2016-2017

Year Offered: 11, 12.

Prerequisite: Introduction to Agriculture and a second agriculture class

Length of Course: 1 year

Credit: 1 credit

Course Description: This course will develop students' understanding of the agricultural industry relating to the United States and World marketplace. Instructional units include: marketing and trading of agricultural products, international agriculture, imports and exports, agricultural law, taxes, governmental regulations and policies, and advanced computerized record keeping. Student skills will be enhanced in math, reading comprehension, and writing and interviewing techniques to gain employment. Post-secondary education will be explored at agricultural colleges and universities. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts

Subject: Agricultural Business Operations 2017-2018

Year Offered: 11, 12

Prerequisite: Introduction to Agriculture and a second agriculture class

Length of Course: 1 year

Credit: 1 credit

Course Description: This course is designed to develop student knowledge and skills in operating an agribusiness. Instructional units include: establishment of agribusinesses, managing the agribusiness, financing the agribusiness, marketing and advertising, product development, sales techniques and strategies, communicating with employees and customers, and studying various agricultural companies and career opportunities. Computer software applications and the Internet will be integrated through data management, inventories, and accounting. Student skills will be enhanced in math, reading comprehension, and writing through agribusiness applications. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Kankakee Area Career Center

All Career Center courses are for Junior and Senior ranked students with good attendance. Courses are 1 or 2 years and earn 3 credits per year.



AUTOMOTIVE TECHNOLOGY

COURSE DESCRIPTION:

Automobiles are growing more complex daily. Today's vehicles have keyless entry, infotainment centers and complex technology. Tomorrow's technician needs to be able to diagnose complex systems. The time of a parts-replacer mechanic is long gone.

KACC's Automotive Technology students will learn how to verify customer concerns, diagnose problems and properly repair vehicles. Students will encounter the simple skills like oil changes and tire repairs, to the more complicated areas of electronic diagnosis and drivability.

KACC Auto Tech students are able to take what is learned in the classroom setting right into our full-service Automotive Shop (open to the public), learning the day-to-day responsibilities of a technician. Students learn about computer-based shop manuals, critical thinking as well as traditional mechanical skills.

KACC's Automotive Technology program, designed as a two-year program, will prepare the student to enter the automotive service field. All of the automobile systems are covered in this program, including engine repairs, drive-trains, fuel systems, brake systems and electrical systems. The basic principles of hybrid and electrical vehicle operations are also covered.

Dual Credit Opportunities: Following successful completion of two years in KACC's Automotive Technology program, students have the potential to earn 4 semester dual credit hours at Kankakee Community College for course *AUTO 1064: Internal Combustion Engines* and 4 semester hours for KCC course *AUTO 2243: Alignment, Steering and Suspension*. Beecher High School and Crete-Monee High School students will have an opportunity to earn 3 credit hours at Prairie State in *AUTO 101: Basic Automobile Service & Systems*. Peotone High School students may earn 3 dual credit hours for *AS106: Automotive Fundamentals* at Joliet Junior College.

REQUIRED/RECOMMENDED TOOLS AND SUPPLIES:

- Appropriate shoes/boots
- Appropriate clothing; i.e., long pants, etc. (NO SHORTS)
- Safety glasses (first pair provided by KACC)
- Tire pressure gauge
- Pencil/pen
- Notebook.

ADDITIONAL COSTS:

None

COLLISION REPAIR

COURSE DESCRIPTION:

During the first year of this program, learning experiences are designed to allow students to gain knowledge and skills in repairing automotive bodies and fenders. Planned learning activities in this course are balanced to allow students to become knowledgeable in the fundamental aspects of auto body repair methods and techniques, and to develop practical skills in the basic operations required to prepare the automobile for final paint application. Instruction emphasizes safety principles and practices, hazardous materials, auto body nomenclature, function of individual component the use of parts, manuals, the identification of replacement parts, use of plastic body fillers, plastic/glass fillers and special body repair tools, refinishing problems and paint preparation procedures. Practical activities relate to experience in writing and calculating damage estimates, removing and installing body panels, trim and glass, straightening by using hammers and dollies, and smoothing by filling, grinding and using fillers. Students also learn to prime the area to be painted and prepare the surface for final paint application. These experiences and skills are related to metal, fiberglass or urethane components.

The second year provides experiences designed to further enhance the students' skills in performing more advanced tasks related to automotive body and fender repair. Learning activities in this course emphasize the successful application of the final paint coat and the preparation that precedes it. Emphasis is also placed upon the identification and correction of imperfections and finish buffing of the final coat. Student learning activities include instruction in safety principals and practices, hazardous materials, types and qualities of paints, colors, and refinishing problems; glass standards and installation, special alignment techniques, customer relations, damage estimating and insurance adjustments. Student practical activities relate to experiences in estimating collision damage costs, preparing customer bills, removing and replacing glass surfaces, selecting paints, repainting minor and major damages, post-paint cleanup, and post-paint polishing. This course also allows students to experience more design-related auto painting utilizing an air-brush application.

REQUIRED/RECOMMENDED TOOLS AND SUPPLIES:

- Leather work boots
- Appropriate work clothing with no rips, holes, tears or frays. Clothes must also fit properly. Baggy clothes *will not* be permitted.
- Pencil and paper
- Respirator – must be a dual cartridge (\$10). May be purchased at First Auto Color or CarQuest.

ADDITIONAL COSTS:
Class Fee of \$10.00 which includes cost of Collision Repair uniform shirt.



COMPUTER TECHNOLOGY I **THEORY, REPAIR AND BUILDING**

COURSE DESCRIPTIONS:

In this program, a solid foundation of theory on how a computer and other peripherals work is covered. Students receive instruction and hands-on experience in repairing or replacing faulty mechanical or electronic parts and giving technical advice on ways to keep equipment in good operating condition. A+ *LabSim Test Out* online software is also used for simulating PC building and repair (This same software is utilized by most colleges). After completing this program, the student will have an opportunity to go on to become A+ Certified and PC PRO Certified. Students also receive instruction in the area of installing basic networks.

DUAL CREDIT OPPORTUNITY: Successful completion of this program allows students the potential to earn 4 credit hours at Joliet Junior College for *CIS275 – PC Troubleshooting & Toolbox*. Beecher High School and Crete-Monee students also may have an opportunity to earn 4 credit hours at Prairie State for *ITNET 160 Computer Repair*.

REQUIRED/RECOMMENDED TOOLS AND SUPPLIES:

- P.C. repair toolkit or Phillips-head screw driver
- Small mag light or other mini light
- 3-ring binder or folder
- Pen
- Pencil
- Notebook
- Home internet access

ADDITIONAL COSTS/FEES:

- **USB Memory/Flash drive \$10 to \$15**



COMPUTER TECHNOLOGY II **(NETWORKING AND THE WORLD WIDE WEB)**

COURSE DESCRIPTION:

This course builds on the skills introduced in Computer Technology I. Students learn how to connect and install multiple computers and peripherals together to create a computer network. Students build, configure, and maintain network servers along with installing and configuring various network operating systems such as Windows Server. Students learn to use troubleshooting services, system monitoring utilities, and data backup and recovery systems. Other topics include learning how to connect various network components such as servers, computers, and printers together using data cabling, hubs, and switches. Students learn to run, terminate, and troubleshoot data cabling. In addition, students learn how to install and upgrade software across the network, as well as map drives and share resources such as printers, software, and files. The course includes setting up and configuring various network services such as TCP /IP, DHCP, DNS, VPN, terminal services, e-mail and web services. Students learn how to secure and protect network servers and data as well as setting up and configuring a firewall, intrusion detection system, and encryption software for identifying and preventing potential network attacks. This course is taught in conjunction with CompTia's Network+ and Curriculum. Each student has the option to purchase vouchers for the certification test at half-price.

DUAL CREDIT OPPORTUNITY: Successful completion of this program may allow students an opportunity to earn 3 credit hours at Joliet Junior College for *CIS145 – Fundamentals of Networking*. For Beecher High School and Crete-Monee students, successful completion of this program may allow an opportunity to earn 3 credit hours for course *ITNET165 Intro to Networking* at Prairie State Jr. College.

REQUIRED/RECOMMENDED TOOLS AND SUPPLIES:

- ½”, 3-Ring Binder
- Black Ink Pen
- Blue Ink Pen
- Pencil
- One subject college ruled spiral notebook
- Headphones
- *Optional – Data Communications and Computer Networks A Business User's Approach (7th Edition, Curt M. White, ISBN: 978-1-133-6246-6)*

ADDITIONAL COSTS:

None



CONSTRUCTION TECHNOLOGY

COURSE DESCRIPTION:

Students in construction technology build and maintain structures ranging from rough scaffolds, concrete forms and residential electric to homes that require exact finish work. They work with wood, metal, plastic and concrete. Using both hand and power tools, people in the construction trade erect wood frameworks for buildings, install window frames, apply exterior siding and install moldings, cabinets, doors, heating and cooling systems, plumbing and hardware finish. Construction Technology education gives the student the opportunity to participate in the different phases of residential construction. This helps the student decide which trade or craft they would like to serve an apprenticeship.

During the training program, students construct houses on-site and will be involved in all phases of construction. The program is designed as pre-apprentice training and will include the following areas of construction: carpentry, masonry, plumbing, heating, roofing, landscaping, painting, decorating and electrical wiring. The student receives both classroom and on the job training.

DUAL CREDIT OPPORTUNITY: Successful completion of this two-year program may allow an opportunity for students to earn 2 credit hours at Kankakee Community College for *CNST 1432 – Material & Methods* or, Joliet Junior College for *AEC 100 – Construction Fundamentals*.

Students have opportunity to earn their OSHA 10 Certification

REQUIRED TOOLS AND SUPPLIES (purchased by student):

- Notebook for classroom
- Calculator
- 16 or 20 oz claw hammer with unbreakable handle
- Speed square
- 25' power return tape
- Carpenter's pencil
- Nail apron – cloth is acceptable
- Leather work boots (Steel toe not required)
- OSHA approved hard hat
- Safety glasses (first pair provided by KACC)
- Retractable Utility knife
- Chalk line
- Cat's claw
- Also recommend cold weather clothing, work gloves, rubber overshoes for mud.



ADDITIONAL COSTS:

3-Dimensional Model Contest Materials costing from \$5 to \$20



C.N.A. Training Program **(Certified Nurse Assistant)**

COURSE DESCRIPTION:

Students enrolled in the Health Occupations C.N.A. Training Program at KACC can become a CNA (Certified Nurse Assistant) The Health Occupations I program at KACC is taught by Registered Nurses (RN's) who are certified to teach the CNA program through the Illinois Department of Public Health. This program prepares students for their continued education

at local community colleges and university-level programs in the following healthcare fields:

LPN	Radiology	Respiratory Therapy
RN	EMT-Basic	Occupational Therapy
Medical Technologist	Physical Therapy	Pre-Med

The CNA program at KACC is approved by the Illinois Department of Public Health. After successful completion, the student is eligible to take the Illinois CNA Test to become certified as a nurse assistant. In the CNA program, students learn basic nursing skills such as vital signs, nutrition, rehabilitation and personal care of patients.

DUAL CREDIT OPPORTUNITIES:

Following successful completion of C.N.A. Training, students may have an opportunity to earn 7.5 dual credit hours for Course *PNUR1438: Nursing Assistant (C.N.A.)* at Kankakee Community College. Students must meet community college's requirements.

REQUIRED/RECOMMENDED TOOLS AND SUPPLIES:

- Watch (must have second hand)
- White uniform pants and navy scrub top
- White shoes for clinical
- Name pin purchased through KACC
- Pens
- Pocket notebook.
- **A Hepatitis B vaccine (recommended, but not mandatory) at student's expense**
- **A two-step TB test is required.** The TB Test is a responsibility of the student. This test must be done **prior** to the beginning of the school year and can be done through the Kankakee County Health Department, your personal physician local hospitals' occupational health departments or Bradley Wal-Mart. Students are to bring their results of the test to their instructors when they begin class
- **Fingerprint Background Check** – will be done at KACC at the beginning of the school year. This is a requirement of the Illinois Department of Public Health. Any student failing to obtain fingerprint background check will be removed from the program.
- **Flu Shot** – When flu shots become available in the fall, students are required to have the shot or, agree to work with a mask on during clinical hours when any flu outbreak occurs at the clinical site.
- **Drug Screen *may*** be a requirement of the medical facilities in which clinical hours are earned.

ADDITIONAL COSTS:

- After successful completion of state requirements, students may take a CNA State Certification Test (Fee from 2015 was \$75.00)
- Class Fee of \$100 is due and payable to Kankakee Area Career Center within the first week of School by cash, check or credit card. After the first week of school, only cash payments or online credit card payments through Rev Track on KACC's website will be accepted.

The \$100 class fee covers the cost of Fingerprint Background Check, CPR Card, Picture ID Badge and *Mosby's Textbook for Nursing Assistants – 8th Edition.*



KACC SCHOOL OF COSMETOLOGY

COURSE DESCRIPTION:

The KACC School of Cosmetology provides the training necessary to become a licensed cosmetologist. While earning hours toward licensure, students have the opportunity to acquire the skills needed in order to perform services on customers in our full-service salon, which is open to the public.



First-year students receive instruction in both theory and practical application in professional development, salon ecology, chemistry, trichology, design decisions, hairstyling, haircutting, chemical texture, hair color and sanitation. Don't worry – you will still be working with clients in our salon too!

Unlike other high school programs, students continue through the summer until mid-July continuing to work within the salon while studying anatomy and physiology, electricity, nail technology and esthetics as they relate to cosmetology, while earning more of those hours toward licensure.

During the second year, students will build upon the knowledge and skills attained in year one and continue both classroom and hands-on experience with customers in our salon, in the areas of shampooing, make-up, facials, hair treatment, hairdressing and hair shaping, hair chemistry, manicuring, pedicuring, sculpture nails, and permanent waving/chemical straightening.

The Cosmetology Program is under the instruction of professional cosmetologists, licensed to teach the Cosmetology program under the rules and regulations established by the Department of Professional Regulation. The program provides for 1500 hours of training which, is the minimum requirement needed in order to take the State Board Exam for licensing. This includes two full school years, Saturday hours, the summer session between junior and senior year, as well as the summer session following high school graduation school.

REQUIRED TOOLS/SUPPLIES:

Students are responsible for purchasing an equipment kit for the first year, second year, and for both summer sessions. The items provided in the kit are required to progress in the class. Kit fees first and second year, are due on or before the first day of class. Kit fees and tuition for the summer sessions are due no later than the first day of summer school class. These kits meet industry standards and are sold at our cost. Payment plans are not offered, however, we accept credit card payments. **Students will not be enrolled nor will they be able to earn hours toward their Cosmetology license until appropriate fees are paid.**

***Kit Fees and Summer School Tuition:**

- Equipment kits for first year, second year and summer programs
 - First-Year - \$230 kit fee
 - First-Year Summer – Tuition \$300, plus Summer Kit fee of \$190
 - Second-Year Kit Fee is \$135.00
 - Second-Year Summer Tuition is \$300 – No Summer Kit Fee



Students who choose to participate in competitions may also need to purchase additional mannequins, supplies, pay for entry fees and travel costs.

*Kit fees subject to change



DRAFTING + 3D DESIGN

COURSE DESCRIPTION:

Manual drafting and computer aided drafting (CAD) is used in many professions to develop ideas and then transfer them to drawings. The drawings then enable others to produce or construct the final product or assembly.

The Drafting + 3D Design program at the Career Center is a two-year program offered to juniors and seniors. Even though this course is designed around a two-year curriculum, sometimes students can only fit one year into their class schedule, and are welcome to attend. Students will learn the fundamentals of the design process used by architects and engineers and how drafting aids that process. Students will have an opportunity to work independently, engage in team projects as well as collaborative projects with other programs within the Career Center.

During the first year, the program focuses initially on sketching, manual drafting and AutoCAD. Students will learn how to manually sketch and draft two and three-dimensional geometric shapes. They will then move on to more complex drawings of houses, machine parts and designs. Students will learn computer aided drafting utilizing *Sketch Up* and *AutoCAD* software programs as well as use and operation of KACC's 3-D printer.

Second-year students may choose to focus on either engineering or architecture. They will have the opportunity to job shadow and intern with professionals in their field of interest. Students will become more proficient in AutoCAD and will learn to use 3D software programs utilized by engineers (*Solid Works*) and architects (*Revit*) as well as more advanced design and usage of the 3-D printer.

DUAL CREDIT OPPORTUNITIES: Students who successfully complete the first year may have an opportunity to earn dual college credit at the community college within their home school district as follows: 4 hours of dual credit with Kankakee Community College for *DRFT2114: CAD I*; Beecher High School and Crete-Monee students may have the opportunity to earn 3 dual credit hours from Prairie State College for *CADMD 243: Intro to Auto CAD*.

REQUIRED TOOLS AND SUPPLIES:

- Notebook, Minimum 2 inch, 3-Ringbinder with dividers
- Notebook Paper
- Simple, small basic calculator
- (\$2-\$3)
- Sketch pad (\$4) min 8" x 10"
- Pencils
- Home computer with internet access recommended for downloading free drafting software (i.e.: *AutoCAD*, *Sketchup*, *Revit*, *Inventor*, *Blender*, *3dsMax*)





FIRE /RESCUE/EMR

COURSE DESCRIPTION:

The Fire/Rescue/EMR program designed as a two-year program and is set to follow the State of Illinois Fire Marshall's Office Division of Standards for entry-level positions in the fire and rescue field. Students who are in their senior year of high school are welcome enroll.

This 2-year curriculum is split between Schedule A and Schedule B and will alter annually as follows:

Schedule A (Even graduating years ie.: Graduating Class of 2016): Students will learn about fire department operations. Subject areas include: Fire Service as a Career, Roles of Fire Service Personnel, Fire and Emergency Services, Firefighter Safety, Traditions and History, Fire Prevention, Fire Investigation, Scientific Terminology, Building Construction, Fire Detection, Alarm and Suppression Systems and, fire Department Organization and Management. The remainder of the year will involve Emergency Medical First Responder (EMR) program approved by the IL Department of Public Health and provided under the auspices of our local hospitals, Presence St. Mary's and Riverside Medical Center. Students develop and demonstrate the practical skills associated with emergency procedures such as bandaging, splinting, CPR, and auto extrication. Additional topics include: EMS Systems, Personnel Safety, Medical, Legal and Ethical Issues, the Human Body, Airway Management, Patient Assessment, Patient Handling, medical Emergencies and communication and Documentation. Students who successfully meet standards will be allowed to test for the EMR certification with IDPH and earn 3 college credit hours at Prairie State College.

Schedule B (Odd graduating years i.e. Graduating Class of 2017): During this year, the Fire-Rescue-EMR program follows the Office of Illinois State Fire Marshall's Division of Personnel standards objectives for *Basic Firefighter*. In addition to classroom instruction, there are extensive hands-on training sessions involving ropes and knots, fire hose, ladders and self-contained breathing apparatus. At the conclusion of this year, students will experience simulated fire conditions in a non-toxic smoke trailer and learn to perform search and rescue operations, including auto extrication and how to safely remove victims of automotive crashes.

Students who are thinking about this program need to be aware - this program is very physically demanding.

DUAL CREDIT OPPORTUNITY:

Following successful completion A Schedule year, students may have an opportunity to earn 3 dual credit hours at Prairie State College for *FST101: Intro to Fire Technology*.

CERTIFICATION:

Illinois Department of Public Health Emergency Medical Responder License
American Heart Association Health Care Provider CPR/AED Certification

REQUIRED/RECOMMENDED TOOLS AND SUPPLIES:

- Pen and #2 Pencil
- Notebook paper and 3-ring binder

ADDITIONAL COSTS:

Students are REQUIRED to pay for the following items:

- American Heart Association Health Care Providers CPR/AED Card – \$5
- American Heart Association First Aide - \$5
- Illinois Department of Public Health Emergency Medical Response License \$55 (may be subject to change by IDPH)
- KACC Fire/Rescue Uniform T-Shirt (Optional) \$10-\$20

MEDICAL TERMINOLOGY & SKILL DEVELOPMENT



COURSE DESCRIPTION:

This course is designed to provide students with a sequence of organized learning experiences and skills to prepare a person to recognize the signs and symptoms of illness and injury. In addition, students will learn approved and appropriate life-support procedures such as cardio-pulmonary resuscitation (CPR) and will become First Aide certified through the American Heart Association. This course will also include skill development to prepare students for a variety of health-related occupations.

Students will learn how to identify medical terms by analyzing their components. Emphasis will be placed on defining medical prefixes, root words, suffixes and, abbreviations. The primary focus is on the development of both oral and written skills in the language used to communicate within healthcare professions.

Students may qualify to participate in an internship program at local extended health care facilities if they have successfully earned their Certified Nurse Assistant (CNA) certification.

DUAL CREDIT OPPORTUNITIES:

Following successful completion of this Medical Terminology and Skill Development Course, students may have the opportunity to earn 2 Semester Credit Hours for course *HLTH1312: Medical Terminology* at Kankakee Community College for students in the KCC district and, for Beecher and Crete Monee High Schools, 3 credit hours for *HLTH105 Medical Terminology* at Prairie State College. Students must meet community colleges' requirements.

REQUIRED/RECOMMENDED TOOLS AND SUPPLIES:

- Notebook, 3-Ringbinder with dividers
- Notebook Paper
- Index Cards
- Pens and Pencils

Optional Supplies – Head phones



ADDITIONAL COSTS:

- **Class Fee is due and payable to Kankakee Area Career Center within the first week of School. The fee per year is \$10, covering the cost of the Picture ID badge and First Aide/Heartsaver certification.**
- **Students who qualify for an out-of-school internship must have a Step 2 TB Test, Drug Screen, own transportation and proof of insurance.**

LAW ENFORCEMENT



COURSE DESCRIPTION:

The two-year Career Center Law Enforcement Program provides students with a basic introduction to all facets of law enforcement. Upon completion of the program, students should have a working knowledge of law enforcement procedures and activities that will enhance their skills on the community college and university levels.

Students will be given the opportunity to achieve some proficiency in the following areas: Traffic & Accident Investigation; Vehicle Stops and Approach; Patrol & Arrest Techniques; Telecommunications Skills; Illinois Vehicle Code; Corrections; Drug Laws; Courts & Legal System; Interview Techniques; Search & Seizure/Evidence Procedures/Crime Scene Investigation; Illinois Criminal Code; Fingerprint Techniques; Criminal Investigation; Report Writing; and, Private Security.

Also included in the program will be interview and interrogation techniques, arrest and handcuffing procedures, an annual research paper and student speech project. In this pre-law enforcement course, student experiences will involve simulations, demonstrations, guest lectures, tours of various law enforcement departments, and a shadowing program developed with the cooperation of the Kankakee County Sheriffs Police as well as other local police departments..

DUAL CREDIT OPPORTUNITIES:

Following successful completion of this two-year program, students may have an opportunity to earn 3 hours of dual credit as follows: I-KAN Region students at Kankakee Community College for Course LAWF 1513- Intro to Criminal Justice; Peotone students at Joliet Jr. College for course CRJ 100 - Intro to Criminal Justice; and, Crete Monee and Beecher Students at Prairie State College for Course CRJ901 – Intro to Criminal Justice.

REQUIRED TOOLS AND SUPPLIES:

Law Enforcement I and II

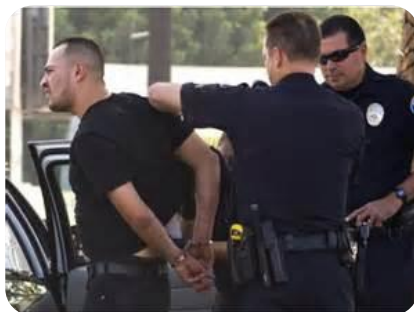
Spiral Notebook
3-Ring Binder
Pens & Pencils
Notebook Paper

Law Enforcement II

Notebook Paper
Graph Paper
Ruler

ADDITIONAL COSTS:

None



WELDING TECHNOLOGY



COURSE DESCRIPTION:

Welding is one of the most important crafts necessary for the manufacturing and construction of various products such as buildings, ships, aircraft, storage vessels, power plants, automobiles, etc. Everything from Nuclear Reactors to the toaster found in your kitchen is made possible by the process of welding.

Careers in the field of welding contain a wide range of possibilities. There are certified welders, fitters, inspection and design professionals, welding engineers and those who are involved in study and development of new metals and joining processes.

Salary opportunities in the welding field are excellent. You can go as far as your skill sets and knowledge will take you.

During the first year, the welding program will consist of exercises using the oxy-acetylene, shielded metal arc, gas metal arc and flux cored arc welding processes in the flat, horizontal and vertical positions. You will also gain experience in the separation of metal using the oxy-fuel and plasma processes. The study of welding symbols, blueprint reading, joint design and metallurgy are also included.

The second year focuses on advanced application of first year study in the vertical and overhead positions using the various processes as well as an introduction to pipe welding in the 2F, 2G and 5G positions. All welds will be subject to a guided bend test.

American Welding Society:

The Kankakee Area Career Center's Welding program is a member of the American Welding Society S.E.N.S.E. (Scholars Excelling through National Standards Education) program. The S.E.N.S.E. program establishes standards for the training of entry-level welders.

Upon successful completion of the S.E.N.S.E. curriculum:

- First year students will receive a SENSE Level 1 Certificate
- Second year students will receive a Sense Level II Certificate

There is a \$15.00 fee from the American Welding Society to receive the SENSE Certificate of Completion.

Dual Credit:

Kankakee Community College (KCC): Students who successfully complete the first year Welding program at KACC may have the opportunity to receive 4 Semester hours credit with KCC for their Course "*WELD1114 Basic Welding*." Students who successfully complete a second year in the KACC Welding program will receive 4 Semester hours credit with KCC for the course "*WELD2224 Metallic Inert Gas Welding*," Beecher High School Students may have an opportunity to earn dual college credit at Prairie State College: First-year students may earn 2 dual credit hours for *WELD 101 Principals of Flat Welding*. Second-year students may earn dual credit hours for *WELD 102: Horizontal Welding & Brazing*.

REQUIRED TOOLS AND SUPPLIES:

- **Welding jacket with leather sleeves**
- **Long leather welding gloves**
- **All-leather work boots** (must be over top of ankle)
- **Welding Helmet with No. 5 & 10 Filter plate and Extra-Clear Cover Lenses** – Recommend “*Jackson*” brand
- **Work Jeans** (must be in good shape, not ripped or frayed)
- **Welding Cap**
- **Ear Plugs**
- **Safety Glasses** (first pair provided by KACC)
- **Tip Cleaner**
- **Wire Brush**
- **Tape Measurer** (12’ minimum length)
- **Chipping Hammer**
- **MIG Pliers**
- **#2 Pencil** (not mechanical)
- **Black and Silver *Sharpie*® markers**
- **3-ring binder**
- **Standard size notebook**
- **Pocket size notebook**

****Please remember, it is mandatory for all students to wear jeans, work boots and safety glasses to every class.**

ADDITIONAL COSTS:

None

