

Iowa City Community School District

High School

2019-2020 Course Guide



**IOWA CITY
COMMUNITY
SCHOOL DISTRICT**

Child-Centered : Future-Focused

Welcome to the Iowa City Community School District!

We are child-centered and future-focused.
We believe each child is unique and it is our
responsibility to provide the best education
possible in an environment that is
challenging, yet caring and inviting.



**IOWA CITY COMMUNITY
SCHOOL DISTRICT**
Child-Centered : Future-Focused

..... Iowa City Community School District

..... 1725 North Dodge St

..... Iowa City, IA 52245

..... Phone: 319-688-1000

..... Fax: 319-688-1009

..... Website: www.iowacityschools.org

EQUITY STATEMENT

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It is the policy of the Iowa City Community School District not to discriminate on the basis of race, color, national origin, sex, disability, religion, creed, age, marital status, sexual orientation, gender identity and socioeconomic status in its educational programs, activities, or employment practices. There is a grievance procedure for processing complaints of discrimination. If you have questions or a grievance related to this policy, please contact Chace Ramey, 1725 N. Dodge St., Iowa City, IA 52245, 319-688-1000, Ramey.Chace@iowacityschools.org.
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When people think about our schools, words like traditional and established come to mind, but also responsive, innovative, creative, and progressive. For over one hundred years, the Iowa City Community School District has been the instructional leader in eastern Iowa, across the state, and throughout the nation

The District's comprehensive high schools recognize academic excellence. These high schools consistently rank at the top in Iowa for the number of National Merit Scholars. Our graduates earn ACT and SAT scores that are consistently higher than the national averages and our schools boast graduation rates that remain higher than state and national norms.

Numerous opportunities are provided for our ninth through twelfth grade students to achieve success. Our high schools offer comprehensive instructional programs that meet the diverse educational needs of young adults. Course offerings prepare students for the future, whether they pursue vocational training, attend a technical college or a university, join the military, or move into the world of work. Our students have the opportunity to build their own educational plans through the use of individual learning plans, which help our students and parents select appropriate courses to support the exploration of various career opportunities. Project Lead The Way and numerous Advanced Placement courses give students a tremendous advantage in pursuing their collegiate level education and in-demand career fields. Career academies and concurrent college credit courses are offered through a strong partnership with Kirkwood Community College.

In addition, students have the opportunity to enroll directly in college courses through the Senior Year Plus Act. Students have access to comprehensive career centers that help them explore and determine their path to the future. Access to a full range of technologies, apprenticeships, and community business partnerships keeps our high school programs dynamic learning environments. A wide choice of championship and award-winning athletic and extra-curricular offerings provides our students an arena in which they can build upon the values of teamwork, self-esteem, and perseverance.

CITY HIGH SCHOOL

1900 Morningside Dr. Iowa City, IA 52240
 Phone: 319-688-1040 | Fax: 319-688-1049
www.iowacityschools.org/CityHS

ADMINISTRATORS

Mr. John Bacon Principal
 Mr. Scott Jespersen Assistant Principal
 Ms. Natalee Swan Assistant Principal
 Mr. Gerry Coleman Academic Dean
 Mr. Terence Coleman Athletic Director

SCHOOL COUNSELORS

Mr. Tom Carey A-CJ, ELL
 Ms. Mary Peterson Co-Ki
 Mrs. Linda Hoel Ki-O, ELP
 Mr. Ben Fraga P-Z

LIBERTY HIGH SCHOOL

1400 S. Dubuque Street North Liberty, IA 52317
 Phone: 319-688-1000 | Fax: 319-688-1009
www.iowacityschools.org/LibertyHS

ADMINISTRATORS

Mr. Scott Kibby Principal
 Mr. Justin Colbert Assistant Principal
 Mrs. Emily O'Donnell Assistant Principal
 Ms. Kimberly Fitten Academic Dean
 Mr. Michael Morrison Athletic Director

SCHOOL COUNSELORS

Mr. Troy Bergmann A-G
 Mrs. Jennifer Naughton H-N
 Mrs. Mayra DeVries O-Z

TATE HIGH SCHOOL

1528 Mall Drive, Iowa City, IA 52240
 Phone: 319-688-1080 | Fax: 319-688-1089
www.iowacityschools.org/TateHS

ADMINISTRATORS

Ms. Ann Browning Principal

SCHOOL COUNSELORS

Ms. Kristina Brown A-Z

WEST HIGH SCHOOL

2901 Melrose Ave., Iowa City, IA 52246
 Phone: 319-688-1050 | Fax: 319-688-1059
www.iowacityschools.org/WestHS

ADMINISTRATORS

Dr. Gregg Shultz Principal
 Ms. Molly Abraham Assistant Principal
 Mr. Lucas DeVries Assistant Principal
 Mrs. Maria Martin Academic Dean
 Mr. Craig Huegel Athletic Director

SCHOOL COUNSELORS

Mr. Paul Breitbart A-D
 Mrs. Kelly Bergmann E-J
 Mr. Greg Yoder K-Q
 Mrs. Kay DiLeo R-Z

TABLE OF CONTENTS

GENERAL INFORMATION

Registration Guidelines	1
Specific Requirements	1
College Entrance Requirements.....	1
Academic Eligibility	1
Alternative High School.....	1
Early Graduation.....	1
Recovery Program	1
NCAA & NAIA Eligibility	1
FASFA Information	1
Fee Waiver Policy.....	1
Course Load	2
Grade Progression.....	2
Criteria for Retaking a Course	2
Second Grade Options	2
Level Changes	2
Guidelines for Schedule Adjustments.....	2
Withdrawal From a Course	2
Special Education	2
Gifted Education	3
Senior Year Plus Program.....	3
Post-Secondary Enrollment Options.....	3
Kirkwood Regional Center	3
Project Lead The Way.....	3
Advanced Placement.....	3
Workplace Learning Connection.....	3
GRADUATION REQUIREMENTS.....	4
FOUR YEAR PLAN WORKSHEET	5
MATH AND SCIENCE SEQUENCE.....	6

COURSES

AGRICULTURE.....	7
ART.....	7
BUSINESS EDUCATION.....	8
FAMILY & CONSUMER SCIENCE	9
HEALTH.....	10
INDUSTRIAL TECHNOLOGY	10
LANGUAGE ARTS	12
MATHEMATICS.....	15
MUSIC	18
PHYSICAL EDUCATION	19
PROJECT LEAD THE WAY.....	20
SCIENCE	21
SOCIAL STUDIES.....	22
WORLD LANGUAGES	24
ADDITIONAL COURSES.....	26
CAREER PATHWAYS.....	28

General Information

Registration Guidelines

A FOUR YEAR PLAN OF STUDY is available for use in the Program of Studies.

As a 1st step, students must give serious consideration to completing the FOUR YEAR PLAN of STUDY. This will help to insure that students have a well-planned high school education that will lend itself to post high school plans. This FOUR YEAR PLAN of STUDY may be updated on a yearly basis as appropriate in consultation with a school counselor.

As a 2nd step, students must carefully read the Program of Studies paying particular attention to graduation requirements, college entrance requirements (2 and 4 year program), course descriptions, and prerequisites.

As a 3rd step, students should work closely with their school counselors to clarify questions and seek advice to complete the FOUR YEAR PLAN of STUDY. Counselors are also available to assist with questions regarding college entrance requirements and with job shadowing experiences.

Specific Requirements

1. A maximum of 15 credits of a combination of journalism, speech, and communication studies can be applied to fulfill the 60 credits of required English courses.
2. The social studies requirement includes one year of American Studies, one year of World History, two trimesters of government, and one trimester of economics.
3. The physical education requirement requires the student to be registered in PE for one trimester of each year of attendance. Seniors who participate in an athletic sport during the school year may request a waiver from participating in a physical education class. In addition, any student who takes seven classes all three trimesters may request a PE waiver. The requirement may also be waived for those students with a doctor's medical excuse filed in the Health Office. This waiver must be filed annually.
4. Students must be registered in health for one trimester unless a parent waiver request is approved.

College Entrance Requirements

Students are strongly urged to work closely with their school counselor regarding college entrance requirements and completing their FOUR YEAR PLAN. A copy of the Iowa's Regents Universities' admission recommendations is included as a guideline and should be used early on for general planning purposes. In order to be best prepared for the future, students need to get specific information from a variety of schools and/or post high school programs. Not all courses listed in the Program of Studies meet college and/or NCAA admission requirements.

Academic Eligibility

In order to participate in any high school performance and or be eligible to participate in a sport or competitive activity, a student must have passed all courses the trimester prior to participation, and must be enrolled in four subjects (Excluding Driver's Education). A special education student who is making adequate progress in meeting goals and objectives on the individualized education plan, as assessed by the teacher, will be academically eligible. (Admin. Reg. 503.4c)

Alternative High School

Students at risk of withdrawing from high school or those far behind in credits may be considered for a referral to Elizabeth Tate High School, the district's alternative high school. The alternative high school's classes may not be used to accelerate the date of graduation.

Early Graduation

Early graduation is not encouraged because it generally provides only a minimum program; however, there are circumstances under which it is possible. Arrangements for early graduation should be made through the school counseling office during the previous term of the proposed year of graduation. Written application must be made to the student's counselor, stating reasons for the request. No credit other than from regular high school courses may be used for early graduation.

Recovery Program

If students are behind in credits, they may elect to take courses through the ICCSD summer school or school-year credit recovery program (Edgenuity). The equivalent of 45 course credits* from recovery credit programs may be applied toward an ICCSD diploma. Students must request a written approval form from their counselor prior to enrolling in each course.

*Note: These courses may not be substituted for specific ICCSD High School courses required for graduation without approval from an administrator.

NCAA & NAIA Eligibility

Student-athletes interested in Division I or II collegiate athletics should go online to www.eligibilitycenter.org for a copy of the booklet [NCAA Guidance for the College Bound Student Athlete](#). This booklet lists all academic, athletic and scholarship requirements and allows student athletes to set up accounts with the NCAA for registration purposes.

Student-athletes interested in playing NAIA sports should go online to www.playNAIA.org for information about NAIA academic and athletic requirements and registration. Students may see their counselor for additional assistance.

FAFSA Information

The FAFSA (Free Application for Federal Student Aid) is a free federally-required form for students seeking financial aid for college. This form should be filed after October 1 and prior to June 30th each year (some colleges and states have earlier deadlines). The FAFSA can be filed online at www.fafsa.gov; there is no charge to complete and submit the FAFSA.

Students and families may receive assistance with the FAFSA and Financial Aid process from their counselors.

Fee Waiver Policy

Students whose families meet the income guidelines for free and reduced lunch, the Family Investment Program (FIP), Supple-

General Information

mental Social Security Income (SSI), transportation assistance under open enrollment, or who are in foster care or are legally defined as homeless are eligible to have their student fees waived or partially waived. Forms are available in the Main Office.

Course Load

All students are required to take a minimum of five courses each trimester. Ninth and tenth graders will be assigned to study hall when not in a class. Juniors may have one open period each trimester. Seniors may have up to two open periods each trimester. Students are required to demonstrate a minimum level of proficiency prior to enrolling in advanced level courses. Students should not enroll in more than 2 courses from the same curricular area in any given trimester.

Grade Progression

To ensure students are progressing towards graduation, students who do not complete required courses and accumulate less than a minimum number of credits by the end of the school year will not be promoted to the next grade level. The grade classification follows:

Freshman	0-78	credit hours
Sophomore	79-155	credit hours
Junior	156-232	credit hours
Seniors	232-310	credit hours

Criteria for Retaking a Course

A student who passes a course may not repeat that course for credit unless stated in the course description and then only with instructor approval.

Second Grade Options

1. Students may re-enroll in a course in which they received a "C" or lower grade.
2. Student will not earn additional credit for completing the course a second time - no double credit.
3. The second grade earned will appear on transcripts, replacing the previous grade.
4. The student must comply with the behavioral, academic, and attendance expectations of the course.

5. Students cannot request second grade option in an area where they have already completed more advanced level work.

Level Changes

1. All level change requests must be made by the 15th day of each trimester or at the trimester break. All requests made after this time must have administrative approval.
2. The request to change will reflect input from the school counselor, course instructor, and must have parent approval.
3. The student will be moved to a section meeting at the same period as the course dropped unless this section is filled or there is no section at that time. Capacity levels of classes will not be exceeded to grant the request.
4. The student's grade-in-progress will be transferred to the new class.

Guidelines for Schedule Adjustments

Because students are responsible for accepting the course of study for which they register, they must plan very deliberately, always keeping in mind individual interests and post high school plans. Any adjustments following the initial Course Selection Process in January are limited and will be based only on the following reasons:

1. Computer error or imbalance of course sections.
2. Failure in a class that is a pre-requisite.
3. Teacher recommendation and/or request because of inappropriate level placement.
4. Unavailability of a class.
5. Class schedule that fails to meet minimum load requirements.

Requests for reasons other than those listed above are limited to extenuating circumstances and must have parent/guardian approval. Requests that would result in an imbalance in the section numbers of a course will NOT be approved.

A request may be made during the posted adjustment period.

Students wanting to add, drop or adjust their schedule must pick up a Schedule Adjustment Request form from the Counseling Office and make an appointment to see their counselor.

Requests for teacher change will not be granted except under extenuating circumstances. A teacher change form will need to be completed and turned in to the school counseling office. All requests will be reviewed by the Principal and will require a parent contact.

Withdrawal from a Course

Students are encouraged to complete the courses they start; however, in the event a student wishes to withdraw from a course, the following guidelines will be used.

Day 1–15: Students may withdraw from a course. No notation will appear on transcript.

Day 16 to three days after Parent/Teacher conferences: Student may withdraw from course with parent permission. The transcript will reflect a "W" (withdrawn).

Three days after Parent/Teacher conferences to End of Trimester: A student may withdraw from the course with parent permission. The transcript will reflect an "F" (failing) grade.

Any student who makes a request to drop a course must have prior approval from his/her teacher, counselor, and parent/guardian.

In order to participate in any high school performance and or to be eligible to participate in a sport or competitive activity, a student must have passed all courses the trimester prior to participation, and must be enrolled in four subjects (excluding Driver's Education). A special education student who is making adequate progress in meeting goals and objectives on the individualized education plan, as assessed by the teacher, will be academically eligible.

Special Education

Special programs are offered to meet the needs of students with Individual Education Plans and include the full continuum of supports and services. Participation requires referral and staffing procedures. Specific supports and service are determined with input from the parents, student, school counselor, and case manager.

General Information

Gifted Education

The Extended Learning Program (ELP) serves gifted and high ability students. The focus of ELP at the high school level is on guidance and counseling, particularly post-secondary preparation. ELP guidance and counseling is designed to supplement general education counseling for students with academic performance and needs beyond regular counseling and education services. Eligibility is determined through the evaluation of multiple criteria including objective and subjective data. The program involves a series of targeted, deliberate and proactive services within the School Counseling Office that will be conducted during the school day by an Extended Learning Program counselor.

Senior Year Plus Program

The Senior Year Plus Program gives motivated, eligible high school students the opportunity to get a “jump start” on college by earning college credit* before attending on a full-time basis. Options include concurrent courses on site and at the Kirkwood Regional Center, PSEO courses at the University of Iowa, Project Lead The Way® (PLTW) and AP courses.

The grade earned in each completed course becomes part of the student’s cumulative GPA at Iowa or Kirkwood. Students will receive high school credit but the grade will not be a part of the student’s high school GPA.

Post-Secondary Enrollment Options (PSEO)

ICCSH High School students have the opportunity to take approved courses at the University of Iowa under the state’s Post-Secondary Enrollment Options Act. Tuition will be paid by the district. Students should contact the school counseling office regarding the state guidelines and specific requirements.

Through this program the district is able to provide a wider variety of options including advanced courses in mathematics, science, social studies, humanities, and vocational technical education. Students who successfully complete college courses may earn both high school and college credit.

Kirkwood Regional Center

The Kirkwood Regional Center at the University of Iowa (Oakdale campus) offers juniors and seniors from all Johnson county school districts the chance to earn both college and high school credit in career academies in a state-of-the-art new facility. Student may choose from 20 different academies that provide a head start to post-secondary education or lead directly to a post-high school career. In addition to academies, KRC also provides companions courses such as the STEM Innovator course that partners students with business mentors and teachers in a project-based, non-traditional curriculum to develop real products and community services.

The grade earned in each course becomes part of the student’s cumulative GPA at Kirkwood. Students receive high school credit and the grade is included on the high school transcript and does impact the student’s ICCSD cumulative GPA. Transportation to and from the regional center from each high school is available. For more information about the Kirkwood Regional Center at the University of Iowa, please go to:

<http://www.kirkwood.edu/johnsonregional> or speak with your school counselor.

Project Lead the Way® (PLTW)

PLTW Pathway to Engineering (PTE) program is a sequence of courses which follows a proven hands-on, real-world problem-solving approach to learning. Students learn and apply the design process, acquire strong teamwork and communication proficiency and develop organizational, critical-thinking, and problem-solving skills. They explore aerodynamics, astronautics and space life sciences. Students apply biological and engineering concepts related to biomechanics. They design, test and actually construct circuits and devices such as smart phones and tablets.

Students who enroll in any of the PLTW courses will receive high school credit and college credit from Kirkwood. The grade earned in this course will be reflected on the student’s official Kirkwood transcript. In addition, students who average 85% through all three trimesters and pass the final exam at 70% may be eligible to receive college credit at selected four-year colleges and universities. More information about specific offerings can be found in the Project Lead the Way course listings.

Advanced Placement (AP)

Advanced Placement provides an academically challenging curriculum that allows students to take college level courses while still in high school. For each AP course, an AP Exam is administered in May at participating schools worldwide. High school students may choose to take the AP exams in specific subjects such as English, world language, chemistry, history, calculus, psychology, biology, economics, computer science, environmental sciences, and fine arts. With the exception of AP Studio Art, which is a portfolio assessment and AP Capstone Seminar, which includes student portfolio assessments starting with trimester 2, each AP exam contains a free response section (either essay or problem solving) and a section of multiple-choice questions. The modern language exams also have a speaking component, and the AP Music Theory Exam includes a sight-singing task.

Colleges and universities use the AP results to determine college preparedness, student motivation, and placement. Students have the opportunity to earn credit or advanced standing at many of the nation’s colleges and universities. A fee is required to take the AP exam. This fee may be waived for students who meet criteria for the free or reduced lunch program. Please refer to the College Board website at

www.college-board.com/student/testing/ap/about.html and your school counselor for further information.

Workplace Learning Connection

The Workplace Learning Connection in collaboration with Kirkwood Community College and the Iowa City Community School District partners with local employers to offer a unique opportunity for work-based learning. Students may select career specific internship or practicum experiences. Upon completion of the on-site hours, career skill development hours, and additional requirements, students MAY receive elective high school credit- 5 credits for a 45-hour Internship I and 10 credits for a 90-hour Internship II/Practicum I. This will be noted on the transcript with a Pass or No Pass and will not be included in the GPA. Sessions are available for the summer, fall, and spring. Additional information is available at <http://www.workplace-learning.org>. Students should consult with their counselor to coordinate this experience.

Graduation Requirements

Most ICCSD students graduate with more than 310 credits. This usually amounts to one elective course per trimester in 9th and 10th grades and two to three elective courses per trimester, in 11th and 12th grades. Students earn five credits per course per trimester for most courses. Students must have attended ICCSD for their final trimester of academic work in order to receive a diploma from ICCSD.

COLLEGE BOUND RECOMMENDATIONS 365 CREDITS

Courses	College Bound Recommendations	Credits
English	4 years	60 Credits
Social Studies	4 years	60 Credits
Mathematics	4 years	60 Credits
Science	4 years	60 Credits
Physical Education	4 years	20 Credits
Health	1 trimester	5 Credits
Electives	4 years including World Language	100 Credits

ICCSD DIPLOMA REQUIREMENTS 310 CREDITS

Courses	Minimum Requirements	Credits
English	4 years	60 Credits
Social Studies	3 years	45 Credits
Mathematics	3 years	45 Credits
Science	3 years	45 Credits
Physical Education	4 years	20 Credits
Health	1 trimester	5 Credits
Electives	4 years	90 Credits

SPECIFIC REQUIREMENTS

English	Credits	Mathematics	Credits
English 9	15 Credits	Mathematics Electives	45 Credits
English 10	15 Credits		
Year Long Literature Course	15 Credits		
English 12	15 Credits (A Year Long Literature course, or three trimesters with at least one literature based and one writing based.)		

Social Studies	Credits	Science	Credits
US History	15 Credits	Earth and Space Science	15 Credits
World History	15 Credits	Biology	15 Credits
Government I: Foundations and Principles	5 Credits	Science Electives	15 Credits
Government II: Institutions and Policies	5 Credits		
Economics	5 Credits		
		Physical Education	Credits
		Physical Education	5 Credits per year
		Health	5 Credits for one trimester

All students must earn a minimum of 310 credit hours to graduate from ICCSD. Minimum course load per trimester requirement is 5 courses.

FOUR YEAR PLAN WORKSHEET

9	FALL	Credit	WINTER	Credit	SPRING	Credit	
	English 9 or English 9 Honors	5	English 9 or English 9 Honors	5	English 9 or English 9 Honors	5	
	US History or World History	5	US History or World History	5	US History or World History	5	
	Math	5	Math	5	Math	5	
	Earth and Space Science	5	Earth and Space Science	5	Earth and Space Science	5	
	Elective	5	Elective	5	Elective	5	
	Optional Elective	5	Optional Elective	5	Optional Elective	5	
	*PE	5	**Health	5	Optional Elective	5	
TOTAL CREDITS			TOTAL CREDITS			TOTAL CREDITS	

10	FALL	Credit	WINTER	Credit	SPRING	Credit	
	English 10 or 10 Honors	5	English 10 or 10 Honors	5	English 10 or 10 Honors	5	
	World History or US History	5	World History or US History	5	World History or US History	5	
	Math	5	Math	5	Math	5	
	Biology	5	Biology	5	Biology	5	
	Elective	5	Elective	5	Elective	5	
	Optional Elective	5	Optional Elective	5	Optional Elective	5	
	*PE	5	Optional Elective	5	Optional Elective	5	
TOTAL CREDITS			TOTAL CREDITS			TOTAL CREDITS	

11	FALL	Credit	WINTER	Credit	SPRING	Credit	
	Literature or Humanities	5	Literature or Humanities	5	Literature or Humanities	5	
	Government***	5	Government***	5	Economics***	5	
	Math	5	Math	5	Math	5	
	Chemistry, Honors Chemistry or Physical Science	5	Chemistry, Honors Chemistry or Physical Science	5	Chemistry, Honors Chemistry or Physical Science	5	
	Elective	5	Elective	5	Elective	5	
	Optional Elective	5	Optional Elective	5	Optional Elective	5	
	*PE	5	Optional Elective	5	Optional Elective	5	
TOTAL CREDITS			TOTAL CREDITS			TOTAL CREDITS	

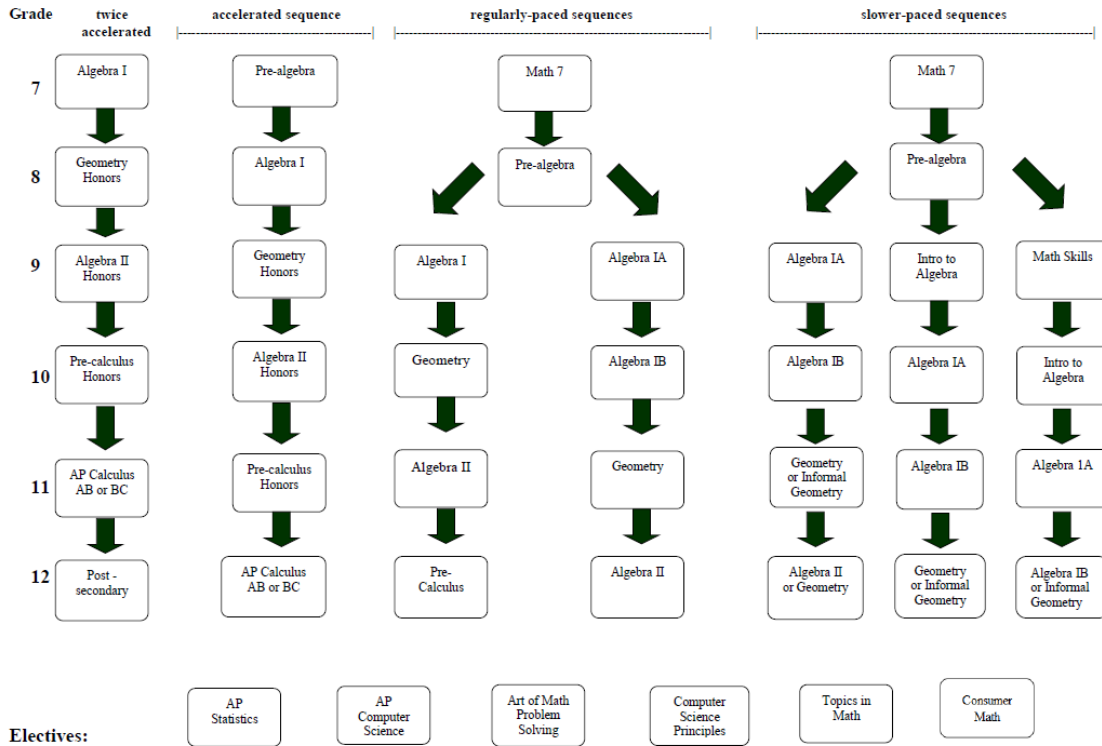
12	FALL	Credit	WINTER	Credit	SPRING	Credit	
	English	5	English	5	English	5	
	Social Studies (Elective)	5	Social Studies (Elective)	5	Social Studies (Elective)	5	
	Math (Elective)	5	Math (Elective)	5	Math (Elective)	5	
	Science (Elective)	5	Science (Elective)	5	Science (Elective)	5	
	Elective	5	Elective	5	Elective	5	
	Optional Elective	5	Optional Elective	5	Optional Elective	5	
	*PE	5	Optional Elective	5	Optional Elective	5	
TOTAL CREDITS			TOTAL CREDITS			TOTAL CREDITS	

*PE is required one trimester per school year and will be scheduled where it fits best. Students should not register for more than one PE course unless it is necessary to make-up a previously failed PE class.

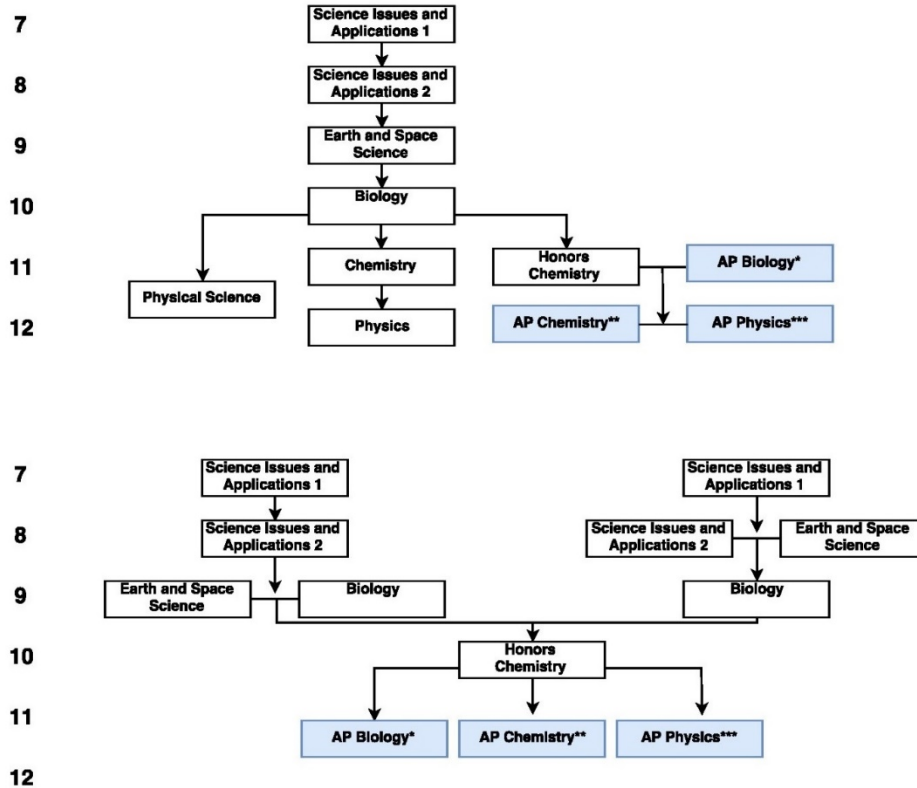
**Health is a one trimester course that can be taken at any time during the student's enrollment

***Government I, Government II, and Economics may be taken during the junior or senior years.

ICCSD Mathematics Paths in Grades 7-12



Secondary Science Course Map



*AP Biology can be taken concurrently with Honors Chemistry
 **Honors Chemistry is a prerequisite for AP Chemistry
 ***Pre-Calc or current enrollment in Pre-Calc is a prerequisite for AP Physics

* NOTE: Courses marked with an asterisk (*) are offered at Tate High School in addition to City, West, and Liberty, unless otherwise noted.

Agriculture

Introduction to Agriculture, Food and Natural Resources

Students participating in the Introduction to Agriculture, Food, and Natural Resources course will experience hands-on activities, projects, and problems. Student experiences will involve the study of communication, the science of agriculture, plants, animals, natural resources, and agricultural mechanics. While surveying the opportunities available in agriculture and natural resources, students will learn to solve problems, conduct research, analyze data, work in teams, and take responsibility for their work, actions, and learning. For example, students will work in groups to determine the efficiency and environmental impacts of fuel sources in a practical learning exercise.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Year

Art

Art Forms*

An opportunity to experiment and explore the visual arts through a variety of materials with an emphasis on studio production in both 2-D and 3-D forms. This foundation course is recommended for all students.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Trimester

Black and White Drawing

A course designed to help students understand basic concepts of drawing and improve their powers of observation. Students will work with various black and white media utilizing a variety of sources and environments.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Trimester

Exploring Color through Drawing

An opportunity to expand on the basic skills and concepts of drawing through the addition of color. Students will develop their skills in color media using oil pastel, conte' crayon, printmaking, colored pencil and other materials.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Trimester

Expressive Drawing

An opportunity to focus on the personal interpretation and expressive qualities that contribute to the impact of images. Students will express themselves using cartooning, collage and alternative surfaces.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Trimester

Painting

An introductory class focusing on techniques in watercolor and acrylic through still life, figurative, abstract, personal narrative and imaginative vision paintings. Emphasis is placed on use of color and development of personal style.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Trimester

Ceramics 1

Students will thoroughly investigate the characteristics and uses of clay as they create functional pottery and sculptural forms. Construction techniques will include hand building methods and use of the potter's wheel. A variety of surface decoration techniques and firing techniques will be explored.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Trimester

Ceramics 2 (West & Liberty High only)

A course designed for self-motivated students who wish to develop and build upon the skills covered in Ceramics 1. Students may choose to concentrate on hand building, throwing on the wheel, surface decoration, or other areas of particular interest as they work toward

developing an individual style in their ceramics.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: Ceramics 1

LENGTH: 1 Trimester

Sculpture

Students will use a variety of materials and techniques, including plaster, papier-mache', clay, found objects, cardboard, and wire. This course emphasizes artisanship, problem solving and personal expression.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Trimester

Metalworking and Jewelry

(West High and Liberty High only)

An introduction to basic metalsmithing and jewelry making techniques. Students will use silver soldering and cold joining techniques to create jewelry and small functional and sculptural projects. The "lost wax" casting process will be used to create rings, pendants, and other three dimensional pieces.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Trimester

Glass (City High only)

Students will learn the basic techniques of stained glass, mosaic work and glass fusing. Students must be responsible enough to work with complicated tools and equipment. Creativity, artisanship, responsibility, and good production ethics will be the basis for evaluation in this class.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Trimester

Stained Glass (West & Liberty High only)

An introduction to stained glass cutting and construction techniques. Emphasis will be placed on generating expressive designs and producing well-crafted stained glass projects. Supplies may be purchased from the art department.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Trimester

Digital Photography

Learn the techniques and art of photography. From shutter speed and apertures to understanding and applying the principles of design, this class will give students the tools to make great photographs. Students will learn the process of fine art, photography, photojournalism and how to take photos in a studio setting. Photoshop basics will be introduced for editing, as well as more creative options.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Trimester

Advanced Photography (City High only)

Students will build on skills learned in Digital Photography by creating and manipulating digital images. It is recommended that students have access to their own digital cameras, but can also use the school's equipment. This course will have an added emphasis on lighting and creating a portfolio of digital images and prints. Independent growth and personal responsibility will be emphasized. Students buy their own photo paper.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: Digital Photography and permission of instructor

LENGTH: 1 Trimester

Graphic Design

Students will use the computer and other technologies as an art tool to generate visual images. This course will give students an expanded view of the use of technology in the visual arts and how it can be used in the business world as well as the fine art world.

GRADE LEVEL: 10-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Trimester

Advanced Graphic Design (City & West High only)

Students will use the computer and other available technologies to generate an electronic portfolio. Students will examine current industry examples to learn how to inform their work in the electronic format. Students will learn web design, animation and about the impact of electronic information and design in the 21st century.

GRADE LEVEL: 10-12

CATEGORY: Elective

PREREQUISITE: Graphic Design

LENGTH: 1 Trimester

Video Production 1

An introductory course on the operation of a video camera, and the editing of digital video. Instruction is focused on specific techniques to be used for desired effects of communication such as shot variety, use of angles, voice-overs, sound production and storyline development.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Trimester

Video Production 2 (West High only)

An opportunity to apply technical knowledge from Video Production 1 in the conception, writing, shooting and editing of longer projects in a workshop-style class.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: Video Production 1

LENGTH: 1 Trimester

AP Studio Art

This is a year-long college level course where students will choose to work on a portfolio in one of the following areas: Drawing, 2-D Design or 3-D Design. The Portfolios share a basic three-section structure, which requires the student to show a fundamental competence and range of understanding in visual art concepts and methods. Open-ended assignments will introduce a variety of concepts, approaches and media to help students complete the breadth portion of the portfolio. Students will be encouraged to experiment with techniques and ideas to bring his/her voice to a range of design problems. Students will work more independently to develop a body of work for the concentration section of their AP portfolio. Students may complete the final two trimesters of this course independently.

GRADE LEVEL: 11-12

CATEGORY: Elective

PREREQUISITE: 2 art classes or teacher approval

LENGTH: 1 Year

Business Education

Entrepreneurship

Is it a dream of yours to open your own business someday? Spark your entrepreneurial spirit by learning all the

different aspects included and skills required to become a small business owner. Hands on activities including units on self-exploration, market analysis, finance management and social/ ethical responsibilities are covered. Each student will create a business plan for a potential business they might start. Entrepreneurs from the corridor area serve as weekly speakers to enhance the curriculum.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Trimester

Futures: Planning for

Success (West & Liberty High only)

What does the future entail for me? This class helps you begin thinking about the different ways you can answer this question. Students identify their own skills, aptitudes, likes and dislikes to help them explore different career options. In addition, an in depth study of different careers and the strategies needed to reach your goals are taught. Creation of a professional resume and interviewing skills also provide students with valuable job getting skills. Students will participate in a one-day job shadow experience sometime during the trimester.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Trimester

Computer Business

Applications

In this course, students enhance their computer skills using Microsoft Office Software (Word, Excel, Access, Powerpoint, and Publisher). Google Docs, Photo Story and Prezi are also business applications explored.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Trimester

Advanced Computer Business Applications

Students take what they have learned in Computer Business Applications and move beyond it with advanced applications in Microsoft Office. There will be comprehensive use of Flash (animation software) and web page design.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: Computer Business Applications
LENGTH: 1 Trimester

Marketing and Sales

Sell yourself and your business ideas in this global society by enrolling in this elective. Sales and marketing concepts are important to everyone. The skills you learn are used to understand and promote individual and business ideas internationally. The class focuses on the psychology of consumer decision making, and deciphers each area of the marketing mix: place, product, price and promotion

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Trimester

Personal Finance

This course focuses on our society and the role that finance plays in it. Budgeting, banking, insurance and the many aspects of investing are covered in depth. This class will give you the foundation to make sound financial decisions.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Trimester

Introduction to Business

This course provides an introduction to the business world and an understanding of our economic environment. Units of study include business ethics, marketing, entrepreneurship, and the globalization of business. Students will also receive a comprehensive look at how different business structures operate within our economy.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Trimester

Accounting

This course provides students with an opportunity to learn the fundamentals of double entry bookkeeping and serves as a background for those who wish to pursue a business career in college. Accounting elements, analyzing the effects of business transactions, journalizing, using special journals, posting, creating financial statements, understanding banking, creating payroll and making financial decisions for a business are topics included.

GRADE LEVEL: 9-12

CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Year

Advanced Accounting

Students expand their knowledge of accounting principles, concepts and terminology through the incorporation of partnerships, accounting for a corporation, departmentalized accounting and automated accounting. Practice sets will be utilized as well as an automated accounting system, Peachtree. Students will also be required to complete a job shadow with a professional in a chosen field of accounting.

GRADE LEVEL: 11-12
CATEGORY: Elective
PREREQUISITE: Accounting
LENGTH: 1 Year

Professional Pathways (West & Liberty High only)

This course is designed to develop leadership skills in a dynamic environment. Skills needed to be successful in life and set you apart from the competition are learned through hands-on real life experiences. A powerful curriculum allows seniors an opportunity to explore career opportunities, develop soft skills that companies demand, learn problem-solving, teamwork, communication and human relations skills. *Permission of instructor is required to enroll. Being an active member of Business Professionals of America (B.P.A.), a national student business organization is required when enrolled in Professional Pathways.

GRADE LEVEL: 12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Year

Web Design (West High only)

Students will be taught hypertext markup language principles used in creating well-designed web pages. Students will also use JavaScript on an introductory level.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Trimester

Keyboarding (City High only)

This is a beginning course for students who have NO previous typing experience or keyboarding instruction. Students learn the fundamentals of the alphabet and numeric keyboard. Much of the time will be spent drilling for speed and accuracy and developing proper technique. Students who

have completed keyboarding in junior high should enroll in Computer Technology and will not be allowed to enroll in Keyboarding without permission of the instructor.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Trimester

Family & Consumer Science

Creative Fabrics 1*

Students of any skill level can take this course; they will learn basic sewing techniques to complete a quilt project. Students are responsible for purchasing their fabric and filling for the quilt. All other notions will be supplied by the class. Students may choose a quilt size but a lap quilt will be the minimum size to complete for credit. We will begin the trimester making a pillowcase using French seams.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Trimester

Creative Fabrics 2*

Students will have the opportunity to make several new and different patchwork samples, and assemble them into a blanket or wall hanging. Students are responsible for purchasing their own fabric and notions. Students will learn to integrate text, graphic and image files previously created on other software applications.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Trimester

Sewing for a Cause

Students of any skill level can take this course. They will learn the fundamentals of sewing and will sew a specific item that can be donated to an organization. One example would be dresses for Haiti donated to the One Starfish organization. Other options may be available. Students may need to provide fabric if donations do not cover the full amount needed.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Trimester

Culinary Arts 1

This introductory course focuses on basic food preparation. Nutrition and eating habits, as well as units on using a recipe, quick and yeast breads, cookies, fruits, vegetables and salads are also explored. Nutrition and the food pyramid, as well as units on the recipe, quick bread, yeast bread, cookies, fruit, vegetables and salads are also explored. This is an excellent course for all students, recognizing everyone will be responsible for purchasing and preparing their own food in the near future.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Trimester

Culinary Arts 2

Units in pies, pastry, beef, pork, cheese, milk, grains, pasta, legumes, eggs, and soup will be explored. Students will study, prepare, sample, and evaluate foods from the various units, as well as learn more about the purchase and use of small equipment. Students will also be responsible for demonstrating the preparation of a chosen food item.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: Culinary Arts 1

LENGTH: 1 Trimester

Culinary Arts 3

Students use basic skills acquired in Foods 1 and Foods 2 to plan, prepare, serve, and evaluate complete meals. Topics include healthy eating behaviors, foreign foods, grocery shopping, cake decorating, kitchen design, appliances, and meal planning.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: Culinary Arts 2

LENGTH: 1 Trimester

Child Development 1*

This course will explore parenting styles and techniques, child abuse, foster care and adoption, family planning, human reproduction, pregnancy and birth. Community speakers as well as a textbook will be used in this class. The focus will be on parenting and what it means to be an effective parent. Any student planning on becoming a parent in the future would benefit from this class.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Trimester

Child Development 2

Students will explore human growth and development from infancy to 10 years old. Mental, physical, social and emotional development of each age group will be covered. Various community speakers will be used to support the textbook. Health, safety, child care and positive parenting will be covered. Students who are interested in learning more about children would benefit from attending this class.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Trimester

On Your Own*

Students planning to move into college dorms or live independently in apartments can better prepare themselves for the future by learning about housing, budgeting, laundry, leases, credit, shopping, cooking, mending, sexuality, and personal responsibilities. This course is designed for students who want a chance to practice basic living skills before entering college or the work force.

GRADE LEVEL: 11-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Trimester

Housing and Interior Design

Students will study the fundamentals of housing and explore a variety of careers in the housing field. They will create projects centered on bedroom remodeling, color, apartment design, and periods and a variety of housing styles from throughout history.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Trimester

Health Health*

This course will provide students with the knowledge and skills to make the critical health choices throughout their lives and enable them to establish lifelong healthy behaviors. Students will comprehend concepts related to health promotion and disease prevention; analyze the influence of family, peers, culture, media, technology, and other factors on health behaviors; demonstrate the ability to use interpersonal communication skills to enhance health and

avoid or reduce health risk; demonstrate the ability to use decision-making and goal-setting skills to enhance health; demonstrate the ability to practice health-enhancing behaviors and avoid or reduce health risks and demonstrate the ability to advocate for personal, family and community health.

Units of instruction include Mental, Social and Emotional health; Violence Prevention; Tobacco, Alcohol and Illegal Drugs including the misuse of Drugs;

Personal Health and Wellness; Safety and Injury Prevention; Human Growth and Reproduction including Sexual Health

GRADE LEVEL: 9-12

CATEGORY: Required

PREREQUISITE: None

LENGTH: 1 Trimester

Relationships 101

This course will provide students with the knowledge and skills to recognize healthy dating behaviors and to empower youth to prevent and end abusive relationships. The classroom will be a safe and inclusive place for students to access information through guest speakers, classroom discussions, special projects and activities. Units of instruction include Dating Basics (Dating FAQ; What should I look for in a partner? Should we break up?); Healthy Relationships (What is consent? Communication; Trust; Setting boundaries; Conflict resolution; Sex and healthy relationships; Feelings, values, self-image and respect); Abuse (Types of abuse; Why people abuse; Why people stay in abusive relationships; Drugs, alcohol and abuse; Texting and sexting; Social network safety.)

GRADE LEVEL: 10-12

CATEGORY: Elective

PREREQUISITE: Health

LENGTH: 1 Trimester

Current and Critical Health Issues

This course provides students with decision-making skills and experiences related to current and critical health issues.

Contemporary health issues will be investigated, researched and explored.

Topics covered in the class may include and are not limited to: stress management; anxiety; teen depression; self-harm and suicide; body image and eating disorders; substance abuse; disease prevention; dealing with grief and death; situational awareness and environmental health issues.

GRADE LEVEL: 10-12

CATEGORY: Elective

PREREQUISITE: Health
LENGTH: 1 Trimester

Industrial Technology

Fundamental of CAD

Students will learn to use the principles and elements of design to create product solutions for the client. Google Sketch-Up is used to model and communicate design solutions through renderings and presentations. This course is good preparation for Introduction to Engineering Design.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Trimester

Fundamentals of Electricity (West & Liberty High only)

This course is designed to help students understand the basic principles behind the forces of electricity and how we can control it to do useful work. DC electronics will be heavily reinforced with hand-on laboratory experiments. Circuit design, reading of schematics, circuit construction, testing/analyzing circuits and troubleshooting faults are all part of the electronics technicians skill set. Safety around electricity and its hazards are studied in depth and strongly emphasized. The relationship of electricity and magnetism will be studied and explored as the students construct an electric motor. Various sources of energy, renewable and nonrenewable, will be investigated through research and experimentation.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Trimester

Fundamentals of Electricity 2 (West & Liberty High only)

This course builds on material from Fundamentals of Electricity. Digital electronics, robotics and residential electrical systems are the areas of concentration with hands-on project based activities used to support the concepts. Students will learn how to handle materials and use the tools of the industry while practicing safety concepts.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Fundamental of Electricity
LENGTH: 1 Trimester

Construction Skills (West & Liberty High only)

This course will be an introductory course in residential building construction. The various phases of home construction will be studied such as Project Planning, Site Preparation, Framing, Enclosing, and Roofing; these phases will be reinforced with hands-on activities. Safety on the job site and with power tools will be taught. Study and handling of various material types used in construction projects will be promoted to help make the best consumer choice regarding budgets and the environmental concerns. Print reading and applications of math skills will be practiced where necessary in planning and estimating use of materials.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Trimester

Manufacturing 1

This course teaches students how the products they buy are designed, marketed and manufactured. They will concentrate on the processing techniques used to manufacture wood products from stock materials to finished projects. Personal safety in the work environment and tool/machine safety are emphasized. Identification of material resources and the processes they go through to become the products we buy will be studied including environmental concerns before, during and after the product life-cycle. Along with technical skills, students will be practicing the "soft" skills required in all career fields.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Trimester

Manufacturing 2 (West & Liberty High only)

Students will build on skills learned in Manufacturing 1 in a more independent setting. Projects will be planned, advanced machine operations will be performed, and a variety of assembly methods will be studied. Students will create a portfolio with documentation of their progress including pictures to be submitted with their projects.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Manufacturing 1
LENGTH: 1 Trimester

Introduction to ACE (City & Liberty High only)

ACE stands for Architecture, Construction, and Engineering. This course is designed to help students learn and explore different construction industry careers. ACE provides a hands-on view of courses and careers pathways that vary from Architecture, Interior Design, Mechanical Engineering, Construction and Construction Management, Materials Processing, PLTW, as well as Industrial Technology opportunities.

Students will have the chance to work on projects from the design phase to actual construction. Field trips and guest speakers will enhance the learning experience and provide real life experiences for students to let them explore countless career opportunities.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Trimester

Construction Technology (City & Liberty High only)

This course is designed to give students an introduction to construction systems. Students will participate in individual and/or group project(s) built throughout the semester. The project(s) will be determined by the needs of the class, community, and school district. Included is a wide range of topics that cover: job-site safety, concrete construction, rough framing construction, roofing construction, interior construction, electrical, fine finish carpentry, and other topics within the construction cluster. This is a dual credit Kirkwood Community College course.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Trimester

Architectural Plans and Specifications (City & Liberty High only)

Introduces the skills and methods for understanding and interpreting construction drawings and technical specifications for residential and commercial buildings. Utilizing existing construction documents, students will learn to communicate through cloud-based collaboration technologies. Activities related to 2D and 3D

measurement, scaling and markups will be performed. This is a dual credit Kirkwood Community College course.

GRADE LEVEL: 9-12

CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Trimester

Computer Integrated Manufacturing (CIM) (West High only)

This PLTW course illuminates the opportunities related to understanding manufacturing by developing your knowledge and skills of Computer Aided Design and Manufacturing. Students will produce products and develop robotic systems as well as learn about manufacturing processes, product design and automation.

GRADE LEVEL: 10-12

CATEGORY: Elective

PREREQUISITE: Introduction to Engineering and Design (IED) or Principles of Engineering (POE)

LENGTH: 1 Year

Language Arts

English 9*

English 9 introduces students to high school level study of the language arts—reading, writing, listening, speaking, and media literacy. Common units of study include short stories, novels, media, research, poetry and epic/drama (*Romeo and Juliet*; Homer’s *Odyssey*). Students compose in expository, narrative, persuasive, and analytical modes. Revision and editing skills are stressed. Students deliver speeches in a supportive setting.

GRADE LEVEL: 9

CATEGORY: Fulfills English 9 requirement

PREREQUISITE: None

LENGTH: 1 Year

English 9 Honors

English 9H is an option for honors credit for those students enrolled in English 9. This course addresses all the major curriculum of the regular English 9 course. At the honors level, the students are expected to meet higher performance standards. For each major unit, students will choose from a list of honors activities and complete a task that complements their coursework. Students will reflect upon their honors work each trimester with a culminating portfolio.

GRADE LEVEL: 9

CATEGORY: Fulfills English 9 requirement

PREREQUISITE: None

LENGTH: 1 Year

English 10*

English 10 continues the study of the language arts—reading, writing, listening, speaking, and media literacy. Common units of study include short narratives, novels (e.g. *Of Mice and Men*, science fiction, etc.), memoir, research, poetry, and epic/drama (a Shakespearean play). Students compose 2-3 multi-draft papers in expository, narrative, persuasive, and/or analytical modes. Some tasks are delivered as speeches. Students work to review and master literary terms, structures, and patterns.

GRADE LEVEL: 10

CATEGORY: Fulfills English 10 requirement

PREREQUISITE: English 9

LENGTH: 1 Year

English 10 Honors

English 10 Honors is an accelerated language arts course intended for students who already have a firm grasp on fundamental reading, writing, speaking, listening, and media literacy skills. Like English 10, common units of study include short narratives, *Of Mice and Men*, science fiction, memoir, research, poetry and epic/drama (a Shakespearean play). Students in English 10 Honors read a larger variety of works at a faster pace and frequently participate in higher-level, whole-class discussion. Students compose 4-6 multi-draft papers in expository, narrative, persuasive, and/or analytical modes. Some tasks are delivered as speeches. Students work to complexify knowledge of literary terms, structures, and patterns.

GRADE LEVEL: 10

CATEGORY: Fulfills English 10 requirement

PREREQUISITE: English 9. Enrollment based upon Iowa Assessment scores and teacher recommendation.

LENGTH: 1 Year

United States Literature*

U.S. Literature explores the themes and movements of historical and contemporary American literature. Common units of study include American novels (e.g. *The Great Gatsby*), modern drama, poetry, and college and career preparation. Students compose in expository, narrative, persuasive, and analytical modes. Some tasks are delivered as speeches. Additional emphasis is placed on close reading and group discussion.

GRADE LEVEL: 11-12

CATEGORY: Fulfills English 11 or English 12 requirement

PREREQUISITE: English 9 and 10

LENGTH: 1 Year

United States Literature Honors

U.S. Literature Honors is an accelerated language arts course that explores American literature and culture from the seventeenth century to the present. Like U.S. Literature, common units of study include American novels (e.g. *The Great Gatsby*), modern drama, and poetry. Students in U.S. Literature Honors read a larger variety of works at a faster pace, frequently participate in higher-level, whole-class discussion, and write more in a variety of modes. Some tasks are delivered as speeches. Additional emphasis is placed on yearlong synthesis.

GRADE LEVEL: 11-12

CATEGORY: Fulfills English 11 or English 12 requirement

PREREQUISITE: English 9 and 10. Enrollment based upon Iowa Assessment scores and teacher recommendation.

LENGTH: 1 Year

World Literature*

World Literature studies the literature, culture and history of many of the world’s great civilizations. Students will examine the context in which the literature was produced to help enrich their understanding of cultures and how they are interconnected with other cultures through literature, theater, film, music, and the arts. Students compose in expository, narrative, persuasive, and analytical modes. Some tasks are delivered as speeches. Additional emphasis is placed on close reading and group discussion.

GRADE LEVEL: 11-12

CATEGORY: Fulfills English 11 or English 12 requirement

PREREQUISITE: English 9 and 10

LENGTH: 1 Year

U.S. Humanities* (Tate, West & Liberty High only)

The study of post-World War II American culture designed for highly-motivated students who want to learn methods of understanding how the culture of America has evolved and been influenced through literature, film, television, drama, music, the fine arts, and other aspects of popular culture. Students will make an in-depth analysis of the early decades (the 1950s and 1960s) as a means of developing a foundation and more lucid understanding of how they have affected “the big picture.” Students will examine the following general topics and their impact: American values,

politics, youth culture, race, gender, and significant movements. Learning methods will include reading whole or parts of relevant literature, speaking and listening during class discussions; active viewing of visual media; and writing analysis papers over course material.

GRADE LEVEL: 11-12

CATEGORY: Fulfills English 11 or English 12 requirement

PREREQUISITE: None

LENGTH: 1 Year

British Literature Honors

(West & Liberty High only)

A survey course of early British Literature where students read Beowulf, Shakespeare, Pope and Swift, selected Romantic works including Mary Shelley's Frankenstein and a classic novel. Students write journals and analytical papers, study vocabulary, present oral reports and view film adaptations of classic works. The third trimester is an in-depth study of Shakespeare's plays. Students write four position papers of 3-5 pages in length and then discuss their papers.

GRADE LEVEL: 11-12

CATEGORY: Fulfills English 11 or English 12 requirement

PREREQUISITE: None

LENGTH: 1 Year

AP English Literature and Composition

AP English Lit is an accelerated language arts course that emphasizes critically reading and discussing college-level literature, as well as writing literary analyses. Common units of study include novels, Shakespearean drama, Greek tragedy, mythology, short stories, poetry, essays, and philosophy. Students may take the AP examination in May. Many colleges and universities grant credit if the student's examination score demonstrates a sufficient level of mastery.

GRADE LEVEL: 12

CATEGORY: Fulfills English 12 requirement

PREREQUISITE: English 9, 10 and a literature course. Enrollment based upon Iowa Assessment scores and teacher recommendation.

LENGTH: 1 Year

AP English Language and Composition

This junior and senior elective course enables students to analyze and evaluate complex non-fiction texts and arguments and to write their own effective arguments.

Curriculum surveys conducted by the AP English Language and Composition Development Committee show that it is equivalent to a two-semester introductory college course in rhetoric and composition. Some universities and colleges grant credit if a student's examination illustrates a sufficient level of mastery.

GRADE LEVEL: 11-12

CATEGORY: Fulfills English 12 requirement

PREREQUISITE: English 9 and 10

LENGTH: 1 Year

Composition I

Composition I develops expository writing with emphasis on organization, supporting details, style, vocabulary and library research skills. College credit can be earned in this course.

GRADE LEVEL: 11-12

CATEGORY: Fulfills English 12 for 1.5 Trimesters

PREREQUISITE: English 10

LENGTH: 1 Semester

Composition II

Composition II teaches precise and responsible use of research tools. Requires critical analysis of reading materials, audience and self when communicating content material. Develops ability to use effective and ethical arguments. College credit can be earned in this course.

GRADE LEVEL: 11-12

CATEGORY: Fulfills English 12 for 1.5 Trimesters

PREREQUISITE: Composition I

LENGTH: 1 Semester

Reading Strategies*

Reading Strategies focuses on raising students' reading levels by addressing fluency, vocabulary, comprehension, and stamina. Strategies taught will be applicable to all content areas. Students may elect to take the class or may be placed in the class based on assessment data and teacher recommendations. This course does not meet Language Arts graduation requirements or NCAA requirements and may not meet entrance requirements for some colleges and universities.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: Enrollment based on Iowa Assessment scores and parent/teacher recommendations.

LENGTH: 1 Year

Foundations of Journalism

Foundations of Journalism focuses on writing articles for both print and online publication, designing magazine pages, taking photographs, reading and viewing current events and understanding the basics of media law. Throughout the year, students become critical readers and viewers of modern media, reading and discussing the news each day. Students also have the opportunity to contribute articles, artwork, photographs and designs for publication in the school newspaper or website.

GRADE LEVEL: 9-12

CATEGORY: Fulfills English 12 requirement for 1 trimester of Writing

PREREQUISITE: None

LENGTH: 1 Trimester at City and 1 year at Liberty & West

News Lab

News Lab is devoted to producing the school newspaper and website. The purpose of this class is to promote professional journalism, enhance students' journalistic skills and encourage the production of a student-run publication. News Lab focuses on writing articles, conducting interviews, designing newspaper pages, taking photographs, designing advertisements, reading and viewing current events, and understanding media law. Most production work is done outside regular school hours. Editors must register for the year. This class may not meet the English admissions requirements for all colleges. Students should check with the colleges to which they are applying.

GRADE LEVEL: 9-12

CATEGORY: Fulfills English 12 requirement for 1 trimester of Writing; may be repeated to fulfill an additional English 12 requirement for 1 trimester

PREREQUISITE: Foundations of Journalism and instructor approval

LENGTH: 1 Trimester

Yearbook Lab

Yearbook Lab is devoted to capturing the history of the school year for presentation in the yearbook. Editors and staff members develop story ideas, conduct interviews, design pages, take photographs, and design advertisements. Editors and staff members use problem-solving techniques to decide how to cover events and people, and when to substitute coverage as a result of last-minute changes. All staff members are required to sell advertising to help support the yearbook. In the process, they learn to interact professionally with local businesses.

Most production work is done outside regular school hours. Editors must register for the year. This class may not meet the English admissions requirements for all colleges. Students should check with the colleges to which they are applying.

GRADE LEVEL: 9-12

CATEGORY: Fulfills English 12 requirement for 1 trimester

PREREQUISITE: Foundations of Journalism and instructor approval

LENGTH: 1 Trimester

Broadcast Lab

Broadcast Lab is devoted to producing video journalism. The purpose of this class is to promote professional journalism, enhance students' journalistic skills and encourage the production of a student-run broadcast. Broadcast Lab focuses on writing copy, conducting interviews, recording and editing videos, reading and viewing current events, and understanding media law. This class may not meet the English admissions requirements for all colleges. Students should check with the colleges to which they are applying.

GRADE LEVEL: 9-12

CATEGORY: Fulfills English 12 requirement for 1 trimester

PREREQUISITE: Foundations of Journalism and instructor approval

LENGTH: 1-3 trimesters

Bible as Literature

Bible as Literature explores the Hebrew and Protestant Bibles from a literary and historical (non-religious) perspective.

Through this course, students will: 1) recognize the Bible as a great literary work, 2) realize the Bible's importance to the cultural history of Western society, 3) become familiar with the most influential stories, characters, symbols of the Judeo-Christian tradition, and 4) be able to recognize Biblical allusions in art, literature, music and politics. The course is a combination of lecture, discussion, test taking, reading, and writing.

GRADE LEVEL: 11-12

CATEGORY: Fulfills English 12 requirement for 1 trimester of Literature

PREREQUISITE: None

LENGTH: 1 Trimester

Contemporary Literature*

Contemporary Literature is a reading course in which students explore a variety of topics and interests within specified categories of books. Students self-select books and read

them in class as well as outside of class.

Grades are based on the number of books read, the thoroughness of written responses, and the quality of oral conferences held with the instructor.

GRADE LEVEL: 11-12

CATEGORY: Fulfills English 12 requirement for 1 trimester of Literature

PREREQUISITE: None

LENGTH: 1 Trimester

Short Story* (Tate, West & Liberty High only)

Students analyze short stories for literary terms and techniques, including plot, setting, mood, characterization, point of view, and theme. Students read and listen to multiple short stories, view different presentations of stories, interpret and analyze stories in large and/or small group discussions, complete study guides, and write paragraphs and themes.

GRADE LEVEL: 11-12

CATEGORY: Fulfills English 12 requirement for 1 trimester of Literature

PREREQUISITE: None

LENGTH: 1 Trimester

Creative Writing*

Creative Writing is an intense writing course that explores several creative genres, including but not limited to short stories, poetry, and memoir. Some students may also choose to explore a choice genre (one-act play, rap, spoken word, etc.). Drafts are critiqued in a workshop setting. Revision of drafts is mandatory for success in this class. The course emphasizes tools for creative writing and literary elements (dialogue, imagery, poetic devices and structural tools) rather than specific topics. Students will put together a final portfolio or will submit their pieces for possible publication.

GRADE LEVEL: 11-12

CATEGORY: Fulfills English 12 requirement for 1 trimester of Writing

PREREQUISITE: None

LENGTH: 1 Trimester

Essay Writing*

Essay Writing stresses the development of writing skills. Students practice the writing process and workshoping techniques. Basic units include personal, descriptive, persuasive, and professional writing, as well as syntax and diction. Students compose and revise their own writing based on what they have discussed, observed and considered in class. Assignments stress author, audience, purpose and specific writing standards

(focus, support and elaboration, organization, and conventions). Students are expected to respond to others' writing in addition to sharing some of their own writing in class.

GRADE LEVEL: 11-12

CATEGORY: Fulfills English 12 requirement for 1 trimester of Writing

PREREQUISITE: English 9 and 10

LENGTH: 1 Trimester

English Grammar and

Usage* (West & Liberty High only)

Exposes students to grammatical terminology necessary for analyzing and discussing language and writing. Areas of study include parts of speech; sentence patterns; fragments and run-ons; phrases and clauses; parallel construction; consistent use of tense, person, verbs, and pronouns; punctuation; and spelling. Students are expected to participate in class activities, take accurate lecture notes, complete assignments, demonstrate knowledge and skills in quizzes, improve ability to proofread their writing, and increase awareness of their oral and written usage problems.

GRADE LEVEL: 11-12

CATEGORY: Fulfills English 12 requirement for 1 trimester

PREREQUISITE: None

LENGTH: 1 Trimester

Public Speaking*

Public Speaking is designed for students who do not like to get up in front of groups of people, as well as for confident speakers. Students receive training and practice in the preparation and delivery of public speeches and interpretive presentations. Students read, view, examine, and discuss examples of famous public speeches. They also write and deliver their own public speeches, reflecting many of the various purposes of public speaking. Additionally, emphasis will be placed on developing good speaking techniques, stage fright anxiety, research skills, organization, listening, observing, and evaluating peer work.

GRADE LEVEL: 9-12

CATEGORY: Fulfills English 12 requirement for 1 trimester

PREREQUISITE: None

LENGTH: 1 Trimester

Media Literacy and Communications* (Tate, City & Liberty High only)

This course is designed to help students improve listening and oral communication skills through participation in various group activities such as panel discussions, oral interpretation, or media presentations. The aim is to improve speech skills through group support and interaction. This course is recommended for all students regardless of post high school plans. This course is accepted by colleges and universities. However the NCAA Eligibility Center does not accept this class in regards to meeting NCAA eligibility criteria.

GRADE LEVEL: 11-12

CATEGORY: Fulfills English 12 requirement for 1 trimester

PREREQUISITE: None

LENGTH: 1 Trimester

Communication Studies (West & Liberty High only)

This course covers the following units: Basic Communication Concepts, Interpersonal Skills, Mass Media, Nonverbal Skills, Listening Skills, Relational and Small Group Communication, and Gender Roles in Communication. Students have the opportunity to research and study communication theories. They create written responses and participate in oral discussions of the communication process as it pertains to our contemporary society. Students will observe these different types of communication at work in social and media settings.

GRADE LEVEL: 11-12

CATEGORY: Fulfills English 12 requirement for 1 trimester

PREREQUISITE: None

LENGTH: 1 Trimester

Acting (City & Liberty High only)

This trimester elective is open to any student. Acting will improve students' oral communication skills while enhancing their understanding and appreciation of theater. Students will read, analyze, and perform various types of literature. Various group and partner performances are required as well as individual performances. The primary goal of this course is to help students become more comfortable with presentation and themselves through improvisation, pantomime, warm-ups, and other acting exercises. Note: This elective does not meet NCAA requirements and may not meet

entrance requirements for some colleges and universities. Some colleges will accept this course as a Language Arts course however some may not. Students may need to select an additional Language Arts elective to meet college Language Arts admission requirements.

GRADE LEVEL: 9-12

CATEGORY: Fulfills English 12 requirement for 1 trimester

PREREQUISITE: None

LENGTH: 1 Trimester

Introduction to Theatre

This is a theatre survey course in which students will be introduced to the basics of theatre including: acting & improvisation, theatre history, play analysis, and some technical theatre basics. It is a great course to take for anyone, from experienced theatre geniuses, to students who have never been exposed to theatre at all but are interested in trying something different and fun.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Trimester

Movement and Acting

A continuation in developing the acting skills and techniques taught in Intro to Theatre. Projects include improvisation work, duet scenes, modern monologues, Shakespearian monologues, play analysis, acting analysis, audition technique, and some World Theatre study.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: Introduction to Theatre.

LENGTH: 1 Trimester

Technical Theatre

Technical Theatre will touch on the "back stage" areas of theatre, including: lighting, set design & construction, scene painting, props, costuming & makeup. Students will work on individual and group projects, including (but not limited to) our school's main stage productions. This course will be offered every-other year.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: Introduction to Theater

LENGTH: 1 Trimester

Mathematics

Students are expected to follow one of the course sequences shown. Teachers will make

individual course recommendations just prior to registration. Students who do not perform satisfactorily in a course should repeat the course.

Students who demonstrate high aptitude and motivation in Algebra I and want to move to the advanced course sequence may enroll in Geometry Honors and Algebra II Honors in the same year. This change requires teacher recommendation and a highly motivated student. These students then continue with Pre-Calculus Honors and Calculus.

Math Skills*

Math Skills is designed for students who need more practice with operations on whole numbers, integers, decimals, and fractions. It helps students develop skills using percentages, ratios, proportions, exponents, and estimation. Supplementary topics include data analysis, measurement, and geometric concepts. This course will assist each student in the process of mastering basic math skills in preparation for Introduction to Algebra.

GRADE LEVEL: 9-12

CATEGORY: Fulfills 1 year of Math requirement

PREREQUISITE: None

LENGTH: 1 Year

Introduction to Algebra*

Introduction to Algebra is a course that builds on basic math skills to develop algebra, geometry, and other general mathematics concepts, including measurement and basic algebra with real numbers. It is not intended to be equivalent to a standard Algebra 1 course. It provides preparation for solving practical problems in everyday life. A scientific calculator may be used for certain topics. This course will prepare students for first-year algebra.

GRADE LEVEL: 9-12

CATEGORY: Fulfills 1 year of Math requirement

PREREQUISITE: Pre-Algebra 8 or Math Skills

LENGTH: 1 Year

Informal Geometry (Liberty & West High only)

Informal Geometry is a course designed to expose students in 10th grade or higher to the structure of Euclidean geometry and develop algebraic skills in this context. Areas of study include points, lines, planes, inductive and deductive reasoning, properties of geometric figures including areas and volumes, and a review of beginning algebra skills. This course will provide each student with a basic

geometry course that is not intended to be equivalent to a standard geometry class.

GRADE LEVEL: 10-12

CATEGORY: Fulfills 1 year of Math requirement

PREREQUISITE: Pre-Algebra 8 or Introduction to Algebra

LENGTH: 1 Year

Algebra 1A

Algebra 1A is a combination of pre-algebra topics and the first half of a standard Algebra 1 course. It is intended for students who may benefit from slower paced instruction with a spiral approach and who are interested in learning Algebra 1. It is the first of a two-course sequence, the second half of which is Algebra 1B. This course will prepare students for Algebra 1B.

GRADE LEVEL: 9-12

CATEGORY: Fulfills 1 year of Math requirement

PREREQUISITE: Pre-Algebra 8 or Introduction to Algebra, with recommendation of instructor

LENGTH: 1 Year

Algebra 1B

Algebra 1B is the sequel to Algebra 1A, and must be completed in order to earn completion of a standard Algebra 1 course. It is equivalent to the second half of a standard Algebra 1 course. Like Algebra 1A, it is intended for students who may benefit from slower paced instruction with a spiral approach and who are interested in learning Algebra 1. This course will provide completion of a standard Algebra 1 course to those students who completed Algebra 1A.

GRADE LEVEL: 9-12

CATEGORY: Fulfills 1 year of Math requirement

PREREQUISITE: Algebra 1A

LENGTH: 1 Year

Algebra 1*

Algebra 1 is the foundation for further study of mathematics. It is the first of three math courses that are required for admission to most four-year colleges (the other two being Geometry and Algebra 2). Students learn to reason symbolically and graphically. Writing, graphing, and solving linear and quadratic equations are key topics. This course emphasizes reading and problem solving for unknown quantities using visual as well as symbolic representations. This course will prepare students for the study of Geometry and Algebra 2.

GRADE LEVEL: 9-12

CATEGORY: Fulfills 1 year of Math requirement

PREREQUISITE: Pre-Algebra 8 or Introduction to Algebra

LENGTH: 1 Year

Geometry*

Geometry is the study of properties of figures in space. It includes right triangle trigonometry and the study of transformations. Inductive and deductive thinking skills are used in problem solving situations, including applications to the real world. Proof writing is included, as students prove properties of geometric figures, including polygons and circles. This course will prepare students for the study of Algebra 2.

GRADE LEVEL: 9-12

CATEGORY: Fulfills 1 year of Math requirement

PREREQUISITE: Algebra 1 or Algebra 1A and Algebra 1B

LENGTH: 1 Year

Geometry Honors

Geometry Honors is a course designed for students in the accelerated mathematics program. Topics are studied with great rigor and at a rapid pace. Formal and rigorous proof writing will be developed with an emphasis on deductive reasoning. Concepts involving logic, inductive reasoning, basic trigonometry, and three-dimensional geometry are also developed. This course will provide geometry students a course with more depth to prepare them for Algebra 2 Honors.

GRADE LEVEL: 9-12

CATEGORY: Fulfills 1 year of Math requirement

PREREQUISITE: Algebra 1

LENGTH: 1 Year

Consumer Mathematics*

(Tate, & City High only)

Consumer Mathematics focuses on the use of mathematics by consumers in everyday life. Topics include applying math related to banking, budgeting, real estate, taxes, insurance, investments, credits and loans. This course will provide students with the skills necessary to be successful consumers.

GRADE LEVEL: 11-12

CATEGORY: Fulfills 1 year of Math requirement

PREREQUISITE: Students may not register for this course if they have successfully completed Algebra 2

LENGTH: 1 Year

Algebra 2*

Algebra 2 is a course that builds on concepts learned in Algebra 1 and Geometry. It develops advanced algebra skills in the study of polynomials, rational expressions, and other equations and inequalities. Reading with comprehension is essential as students solve real world problems. A scientific or graphing calculator is required for certain topics. This course will prepare students for Pre-Calculus.

GRADE LEVEL: 9-12

CATEGORY: Fulfills 1 year of Math requirement

PREREQUISITE: Algebra 1 and Geometry

LENGTH: 1 Year

Algebra 2 Honors

Algebra 2 Honors is a course designed for students in the accelerated mathematics program. Topics are studied with great rigor and at a rapid pace. It includes a brief review of first-year algebra, and continues the study of polynomials, rational expressions, equations, inequalities, logarithms, and basic trigonometry. Reading with comprehension is essential as students acquire stronger problem solving skills. A scientific or graphing calculator is required for certain topics. This course will prepare students for Pre-Calculus Honors.

GRADE LEVEL: 9-12

CATEGORY: Fulfills 1 year of Math requirement

PREREQUISITE: Algebra 1 and Geometry or Geometry Honors

LENGTH: 1 Year

Topics in Mathematics

Topics in Mathematics is a course designed for seniors who have completed three years of high school mathematics, including algebra 1, geometry, and algebra 2, and who are interested in learning about advanced mathematics topics, as well as improving their math proficiency. This course includes discrete math topics, probability and statistics, and a survey of algebra 2 topics. The final trimester is spent preparing students for college math placement exams and strengthening algebra skills. This course will provide an extra boost of math support as students prepare to finish high school and go on to college.

GRADE LEVEL: 12

CATEGORY: Fulfills 1 year of Math requirement

PREREQUISITE: Geometry and Algebra 2

LENGTH: 1 Year

Pre-Calculus

Pre-Calculus is a course for students interested in the physical sciences, physics, engineering, mathematics or other careers that require strong quantitative and mathematics skills. Areas of study include analytic geometry, inequalities, polynomials, trigonometric functions and equations, vectors, complex numbers, logarithmic and exponential functions, sequences and graphing. Reading with comprehension is essential as students acquire stronger problem solving skills. A graphing calculator is required. This course will prepare students for Calculus.

GRADE LEVEL: 9-12

CATEGORY: Fulfills 1 year of Math requirement

PREREQUISITE: Algebra 2 or Algebra 2 Honors

LENGTH: 1 Year

Pre-Calculus Honors

Pre-Calculus Honors is a course primarily for students in the accelerated mathematics program. It is particularly valuable for students intending to pursue careers that require calculus. Advanced algebra techniques will be used to study analytic geometry, inequalities, polynomials, trigonometric functions and equations, vectors, complex numbers, logarithmic and exponential functions, sequences, and graphing. Reading with comprehension is essential as students acquire stronger problem solving skills. A graphing calculator is required. This course will prepare students for Calculus.

GRADE LEVEL: 9-12

CATEGORY: Fulfills 1 year of Math requirement **PREREQUISITE:** Geometry Honors and Algebra 2 honors

LENGTH: 1 Year

AP Calculus AB

AP Calculus AB is a rigorous, college-level course that includes all calculus topics designated by the AP Program of the College Board and it is equivalent to a first semester college-level calculus course. Successful performance on the AP Calculus AB examination allows students to receive credit for college calculus. Areas of study include functions, differentiation and its applications, and integration and its applications. Graphing calculators are required. This course will prepare students to take the AP Calculus AB examination in

May. Visit <http://apcentral.collegeboard.com> for additional information.

GRADE LEVEL: 9-12

CATEGORY: Fulfills 1 year of Math requirement

PREREQUISITE: Pre-Calculus with recommendation of instructor or Pre-Calculus honors.

LENGTH: 1 Year

AP Calculus BC

AP Calculus BC is a rigorous, college-level course that includes all calculus topics designated by the AP Program of the College Board it is equivalent to two semesters of college-level calculus. Successful performance on the AP Calculus BC examination allows students to receive credit for college calculus. Areas of study include all topics covered in AP Calculus AB, as well as additional advanced calculus topics including polynomial approximations and series, vectors, parametric and polar expressions, and more extensive techniques of integration. Graphing calculators are required. This course will prepare students to take the AP Calculus BC examination in May. Visit <http://apcentral.collegeboard.com> for additional information.

GRADE LEVEL: 9-12

CATEGORY: Fulfills 1 year of Math requirement

PREREQUISITE: Pre-Calculus with recommendation of instructor or Pre-Calculus Honors

LENGTH: 1 Year

AP Statistics

AP Statistics is a rigorous, college-level course that includes all statistics topics designated by the AP Program of the College Board. Students are exposed to four broad conceptual themes identified by the College Board: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. A graphing calculator is required. This course will prepare students to take the AP Statistics examination in May.

GRADE LEVEL: 9-12

CATEGORY: Fulfills 1 year of Math requirement

PREREQUISITE: Algebra 2

LENGTH: 1 Year

Computer Science Principles (West High only)

Computer Science Principles (CSP) is a PLTW Dual credit Kirkwood Academy course designed to implement the College Board's new AP Computer Science Principles

framework. Students work in teams to develop computational thinking and solve problems. The course does not aim to teach mastery of a single programming language but aims instead to develop computational thinking, to generate excitement about the field of computing, and to introduce computational tools that foster creativity. Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. Computer Science Principles helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Year

AP Computer Science

AP Computer Science develops skills necessary to take more advanced computer science courses at the college level in order to be competitive in a technologically advanced and globally competitive marketplace. It is comparable to a first-year, semester-long course offered in a university. Students will use the Java language to develop applications to solve both mathematical and real world problems. Students enrolled in this course should have prior programming experience or be highly motivated. This course will prepare students to take the AP Computer Science examination in May.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: Recommended completion of or current enrollment in Algebra 2 or completion of Computer Science Principles

LENGTH: 1 Year

AMPS – The Art of Mathematical Problem Solving (West High only)

AMPS is a course that will address topics central to mathematical development that are beyond the scope of the standard college preparatory curriculum. Emphasis will be placed on techniques of formal proof, problem solving, the art of mathematical communication, and team approaches to solving problems. Students will be

stimulated to learn through challenges and through the preparation for competition. With permission of instructor, students may enroll for a trimester at a time or on an independent-study basis. This course can also be taken multiple times, with topics subsequent to those studied in the initial course. This course will provide students with strategies for approaching, analyzing and solving problems.
GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Geometry Honors
LENGTH: 1 Year

Music

Bass Choir

Little Hawk Singers (City)/Bass Choir (West)/Bass Clef Choir (Liberty) is a non-auditioned choir for all bass clef voices. They sing four concerts each year, with the focus of the class on producing a healthy choral tone; understanding music fundamentals; and singing fun, challenging bass clef choral music.
GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Trimester repeating at the discretion of the director. Repeating is encouraged to prepare for the auditioned choirs.

Treble Choir

Treble Choir (City/West)/Treble Clef Choir (Liberty) is a non-auditioned choir for all treble clef voices. All freshmen treble voices will be assigned to this choir. They sing four concerts each year, with the focus of the class on producing a healthy choral tone; understanding music fundamentals; and singing fun, challenging treble clef choral music.
GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Trimester repeating at the discretion of the director. Repeating is encouraged to prepare for the auditioned choirs.

Advanced Treble Choir

TBD (City)/Concert Choir (West)/Bells Voce (Liberty) is an auditioned choir made up of singers in grades 10-12 who exhibit excellent vocal tone and a basic understanding of the music fundamentals. It will be offered when the number of singers in the program dictates it is necessary. They will perform

four concerts each year and sing advanced choral literature. Students in this choir will be encouraged to audition for a spot in an All-State quartet and sing in our Solo/Small Ensemble Festival in the spring.
GRADE LEVEL: 10-12
CATEGORY: Elective
PREREQUISITE: Ability to match pitch and basic understanding of music literacy concepts.
LENGTH: Year-long enrollment is expected to maintain the continuity and high performance level of this choir. Repeated enrollment at the discretion of the director.

Advanced Mixed Choir

TBD (City)/Concert Choir (West)/TBD (Liberty) is an auditioned choir made up of singers in grades 11-12 who exhibit excellent vocal tone and a basic understanding of the music fundamentals. It will be offered when the number of singers in the program dictates it is necessary. They will perform four concerts each year and sing advanced choral literature. Students in this choir will be encouraged to audition for a spot in an All-State quartet and sing in our Solo/Small Ensemble Festival in the spring.
GRADE LEVEL: 11-12
CATEGORY: Elective
PREREQUISITE: A basic understanding of music literacy concepts (sight-reading) is expected. The student must demonstrate a desire for musical growth and a strong classroom work ethic.
LENGTH: Yearlong enrollment is expected to maintain the continuity and high performance level of this fine choir. Repeated enrollment at the discretion of the director.

Select Mixed Choir

Concert Choir (City)/West Singers (West)/Liberty Singers (Liberty) is a select auditioned choir made up of singers in grades 11-12 who exhibit excellent vocal tone and display advanced music literacy. They will perform four concerts each year, occasional extra concerts, and will sing advanced choral literature. Students in this choir will be encouraged to audition for a spot in an All-State quartet and sing in our Solo/Small Ensemble Festival in the spring.
GRADE LEVEL: 11-12
CATEGORY: Elective
PREREQUISITE: Students will be expected to display strong sight reading skills and an outstanding classroom work ethic.
LENGTH: Yearlong enrollment is expected to maintain the continuity and high level of

performance of this fine choir. Repeated enrollment at the discretion of the director.

9th Grade Band

All incoming 9th grade students should register for this band. During the beginning of the first trimester, these students will rehearse together in a marching band with an introduction to basic marching band techniques and performing at home football and other marching events. The band will also rehearse and perform as a concert band ensemble during the first trimester. All students in this band will have the opportunity to audition for placement into one of the ability-based concert bands for the second and third trimesters. These concert ensembles will focus on the analysis and performance of standard and advanced high school band music and preparation of several formal concerts. Attendance at all performances is a required and graded part of the curriculum of this class.
GRADE LEVEL: 9
CATEGORY: Elective
PREREQUISITE: Previous study or consent of director.
LENGTH: 1 Year

10th-12th Grade Band

All 10th through 12th grade students should register for this band. During the beginning of the first trimester, these students will rehearse together as one marching band with the focus on basic marching band techniques and performing at home football and other marching events. All students in this band will have the opportunity to audition for placement into one of ability based concert bands for the second and third trimesters. These concert ensembles will focus on the analysis and performance of standard and advanced high school band music and preparation of several formal concerts. Attendance at all performances is a required and graded part of the curriculum of this class.
GRADE LEVEL: 10-12
CATEGORY: Elective
PREREQUISITE: Previous study or consent of director.
LENGTH: 1 Year

Concert Orchestra

Concert Orchestra focuses on developing basic orchestral techniques such as accurate pitch, use of dynamics and maintaining a pulse while preparing music for a variety of concerts throughout the year. Students are required to participate in all scheduled

performances, register for all three trimesters and improve their skills through individual practice and lessons. Students work toward the goal of attaining membership in Symphony Orchestra.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: Participation in Jr. High Orchestra or by audition with the director

LENGTH: 1 year

Symphony Orchestra

Symphony Orchestra emphasizes a curriculum of demanding literature from various periods and styles of music. A standard of technical and musical ability is expected. Each student has the opportunity to perform orchestral music, solo works and ensemble literature. Students are required to participate in all scheduled performances, register for all three trimesters and improve their skills through individual practice and lessons.

GRADE LEVEL: 10-12

CATEGORY: Elective

PREREQUISITE: Consent of Director (audition)

LENGTH: 1 Trimester

Grade Level: 10-12

Category: 1 year

AP Music Theory

The AP Music Theory class is structured to be comparable in content and expected level of accomplishment to a first-year college course in Music Theory. The course will integrate the study of melody, harmony, texture, rhythm, and form. Students will spend class time analyzing notated music, developing aural (listening) skills, sight singing, and composition. The successful student will leave the course being able to recognize and describe basic materials and processes of music as performed or presented in a musical score. A wide variety of instrumental and vocal styles will be explored, focusing on music of the common practice period, roughly 1600-1900. An introduction to 20th century compositional techniques will also be included. At the end of the course, students will have all skills necessary to successfully take the AP Music Theory exam.

GRADE LEVEL: 11-12

CATEGORY: Elective

PREREQUISITE: Permission of instructor

LENGTH: 1 Year

Hear My Voice

Hear My Voice is a music elective class designed for students who perhaps have never been a part of an ensemble before. Students have the opportunity to practice and perform music of their choice. Students can work individually or in small groups. Students can perform popular music of any different style. The class culminates in a special performance in our auditorium.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Trimester

Physical Education

Phys Ed*

Students will receive units designed to try lifetime activities from personal conditioning to individual and team sport activities. They will learn basic skills and concepts in those sports and activities along with physical conditioning and wellness activities. Fitness and health concepts will be included as well. The use of heart rate monitors and/or pedometers to help with the understanding and value of exercise in an appropriate heart rate zone.

GRADE LEVEL: 9-12

CATEGORY: Fulfills 1 trimester of PE requirement

PREREQUISITE: None

LENGTH: 1 Trimester

Performance PE 1

This course is set up to provide structured and progressive lessons for students seeking high intensity training. Students will show proper technique and weight increases by the end of the trimester. Students will learn the skills necessary to perform the Olympic lifts and weight training skills. Plyometrics, tabatas, circuit training and a variety of activities to promote lifetime fitness will be included.

GRADE LEVEL: 9-12

CATEGORY: Fulfills 1 trimester of PE requirement

PREREQUISITE: None

LENGTH: 1 Trimester

Performance PE 2 (West & Liberty High only)

This course is an opportunity for students to apply knowledge from Performance PE 1. Students will progress through weight training, conditioning, cross training, circuit training and other skills at a faster pace. More complex skills and movements will be learned and implemented into

workouts. The importance of nutrition on performance and using food as fuel will be emphasized.

GRADE LEVEL: 9-12

CATEGORY: Fulfills 1 trimester of PE requirement

PREREQUISITE: Performance PE 1

LENGTH: 1 Trimester

Lifestyle Fitness

This class will utilize the Fitness Center. Students must be present and participate in 51 out of 60 classes to pass. The class is designed to help students develop a fitness plan, with emphasis on cardiovascular fitness, muscle toning and flexibility. Fitness concepts, nutrition issues and responsible behavior are emphasized in this class. Power walking, jogging, biking, aerobics and Pilates/yoga sequences will make up the workouts. Stability balls, elastic bands, medicine balls, free weights and cardiovascular machines are equipment used for this class. Students will become physically educated persons and understand that physical activity provides opportunities for enjoyment, challenges, self-expression and social interaction as per the Physical Education National Standards.

GRADE LEVEL: 9-12

CATEGORY: Fulfills 1 trimester of PE requirement

PREREQUISITE: None

LENGTH: 1 Trimester

Ultimate Fitness

This course offers students a chance to challenge their physical fitness through a variety of fitness activities and more complex movements. The class will emphasize elements of nutrition and wellness facts. Students will evaluate and monitor their progress through cross training, conditioning, muscular strength/toning along with other fitness activities.

GRADE LEVEL: 9-12

CATEGORY: Fulfills 1 trimester of PE requirement

PREREQUISITE: None

LENGTH: 1 Trimester

Fitness & Dance (City High only)

This course is designed with fitness as a priority. Two alternating days a week will focus on cardiovascular and strength workouts. Three alternating days will focus on learning various types of Hip Hop dance with the assistance of a choreographer. The class will culminate in an evening performance in the auditorium.

GRADE LEVEL: 9-12
CATEGORY: Fulfills 1 trimester of PE requirement
PREREQUISITE: None
LENGTH: 1 Trimester

Project Lead the Way

Introduction to Engineering Design

Students interested in engineering should take this class to practice the “Design Process” and documentation procedures used in all other Project Lead the Way courses. Emphasis is on product design and the use of CAD (Autodesk Inventor) to model, document and communicate design concepts to clients and manufacturers through prints and presentations. Field trips and classroom visits by professionals as well as job shadows are provided to give exposure to career opportunities. College credit can be earned in this course.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Year

Principles of Engineering

This is a Project Lead the Way® class. This pre-engineering course helps students understand the field of engineering/ engineering technology. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. Other topics in the class include Engineering Systems and Robotics, Strength of Materials, Power and Energy, Kinematics, Statics, Computer Programming, and Engineering for Reliability.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Algebra I.
LENGTH: 1 Year

Civil Engineering & Architecture

This advanced Project Lead the Way course focuses on many skills that civil engineers and architects use in their careers. Architectural styles, residential and commercial design, structural engineering, surveying, soil analysis, teamwork and other

topics are studies to help the students understand how urban development occurs. AutoDesk Revit is the software used to model, document and communicate design solutions to communicate solutions to construction workers and clients. On-site field trips, classroom visits by professionals and job shadowing opportunities are provided to give exposure to career opportunities. College credit can be earned in this course.

GRADE LEVEL: 10-12
CATEGORY: Elective
PREREQUISITE: Intro to Engineering Design, or Principles of Engineering.
LENGTH: 1 Year

Aerospace Engineering

This is a Project Lead the Way® class. The major focus of this course is to expose students to the aerospace engineering field and related areas of study. Topics will include the history of the aerospace industry, aerodynamics, flight planning and navigation, aero- space materials and structures, propulsion, flight physiology, space travel and orbital mechanics, and systems engineering. Students will work in teams utilizing hands-on activities, projects, and problems developed by NASA. Students will also use design software and computer simulations to create solutions to proposed problems. Through these activities, projects, and problems, students will develop presentation, critical thinking, and data analysis skills that are relevant to a wide variety of subject areas.

GRADE LEVEL: 10-12
CATEGORY: Elective
PREREQUISITE: Principles of Engineering (POE) or current enrollment in POE; or Algebra II or current enrollment in Algebra II.
LENGTH: 1 Year

Environmental Sustainability (West High and Liberty High only)

This is a Project Lead the Way course that is an interdisciplinary specialty engineering course where students investigate and design solutions in response to real world challenges related to clean and abundant drinking water, food supply issues and renewable energy. Applying their knowledge through hands-on activities and simulations, student research and design potential solutions to these true-to-life situations.

GRADE LEVEL: 10-12
CATEGORY: Elective

PREREQUISITE: Biology
LENGTH: 1 Year

Digital Electronics (City High only)

Digital Electronics is the study of electronic circuits that are used to process and control digital signals. The major focus of the DE course is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation. Utilizing the activity-project-problem-based methods of all PLTW courses, students will analyze, design and build digital electronic circuits. While implementing these designs students will continually hone their interpersonal skills, creative abilities and understanding of the design process. The four main units covered in detail are: Foundations of Digital Electronics, Combinational Logic Analysis & Design, Sequential Logic Analysis & Design and an Introduction to Microcontrollers.

GRADE LEVEL: 10-12
CATEGORY: Elective
PREREQUISITE: Introduction to Engineering Design or Principles of Engineering
LENGTH: 1 Year

Computer Integrated Manufacturing (CIM) (West High only)

This PLTW course illuminates the opportunities related to understanding manufacturing by developing your knowledge and skills of Computer Aided Design and Manufacturing. Students will produce products and develop robotic systems as well as learn about manufacturing processes, product design and automation.

GRADE LEVEL: 10-12
CATEGORY: Elective
PREREQUISITE: Introduction to Engineering and Design (IED) or Principles of Engineering (POE)
LENGTH: 1 Year

Computer Science Principles (West High only)

Computer Science Principles (CSP) is a PLTW Dual credit Kirkwood Academy course designed to implement the College Board’s new AP Computer Science Principles framework. Students work in teams to develop computational thinking and solve problems. The course does not aim to teach mastery of a single programming language but aims instead to develop computational

thinking, to generate excitement about the field of computing, and to introduce computational tools that foster creativity. Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. Computer Science Principles helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation.

GRADE LEVEL: 11-12

CATEGORY: Elective

PREREQUISITE: Geometry

LENGTH: 1 Year

Science

The 9th grade science course is Earth and Space Science. Students who are planning to complete four years of high school science enrolling in courses such as Honors Chemistry, AP Biology, AP Chemistry, and AP Physics are permitted to enroll in Biology as a ninth grade student in addition to the Earth and Space science course. These students should also be enrolled in Geometry as a 9th grade student in order to meet the math requirement for Honors Chemistry which will be taken in their 10 grade year.

Three PLTW courses, (Principles of Engineering, Environmental Sustainability and Aerospace Engineering) count toward Science elective credit at West High, however they cannot be used to fulfill Science requirements.

Earth and Space Science*

Earth and Space Science is designed to give students an opportunity to investigate science and its relationship to society and the natural world through laboratories and activities.

Emphasis is on the connection of earth and space science concepts to everyday interests and concerns. Topics of study will include Earth's Place in the Universe, Earth's Systems, and Earth and Human Activities. Student will be asked to behave as scientists, to think, ask questions, investigate problems, and design their own experiments.

GRADE LEVEL: 9-12

CATEGORY: Fulfills Science requirement

PREREQUISITE: None

LENGTH: 1 Year

Biology*

Biology provides all students with experiences to foster understanding of life processes at the molecular, cellular, organism, ecosystem and global levels. Students explore and analyze the interconnected central themes in biology: science as a process of knowing, structure and function, change over time and the interdependence of nature. The course incorporates laboratory inquiry, use of higher-order thinking skills, and investigation of current issues in technology and society.

GRADE LEVEL: 9-12

CATEGORY: Fulfills Science requirement

PREREQUISITE: None

LENGTH: 1 Year

AP Biology

AP Biology is a challenging second-year course intended to immerse students in the environment of a first-year college Biology class. The course centers on the four Big Ideas of AP Biology: 1. Evolution: the process of evolution drives the diversity and unity of life. 2. Energy: biological systems utilize free energy and molecular building blocks to grow, to reproduce, and to maintain dynamic homeostasis. 3. Information: living systems store, retrieve, transmit and respond to information essential to life processes. 4. Systems: biological systems interact, and these systems and their interactions possess complex properties. Specific preparation for the AP Biology Exam is a feature of the course. Current or previous enrollment in chemistry or honors chemistry is strongly recommended.

GRADE LEVEL: 10-12

CATEGORY: Fulfills Science requirement

PREREQUISITE: Biology

LENGTH: 1 Year

Chemistry

This chemistry course is based on the principles of chemistry and is designed for students who wish to pursue post-secondary education. It will include fundamental chemical concepts, broad coverage of mathematical relationships, stress laboratory inquiry and use of higher order thinking skills in the practical application of chemistry. Concepts will be developed through laboratory work, class discussions and activities, and homework. Tenth graders who took Biology as freshmen should take Honors Chemistry.

GRADE LEVEL: 11-12

CATEGORY: Fulfills Science requirement

PREREQUISITE: Algebra I

LENGTH: 1 Year

Honors Chemistry

Honors Chemistry differs from Chemistry in rigor and pace. Honors Chemistry is a challenging laboratory-centered course designed to provide students the opportunity to study, investigate and experience basic chemical principles. Three major themes are addressed throughout the academic year: (1) properties of matter, (2) structure of matter, and (3) interaction of matter. This course is for those students who have high aptitude in math and science and an interest in pursuing science or science-related studies in college. Tenth graders who took Biology as freshmen should take Honors Chemistry.

GRADE LEVEL: 10-12

CATEGORY: Fulfills Science requirement

PREREQUISITE: Geometry

LENGTH: 1 Year

AP Chemistry

AP Chemistry is a challenging and rigorous course which parallels a first-year college chemistry course. AP Chemistry is designed for highly motivated students interested in pursuing science related fields such as engineering, medicine and the physical sciences. Some of the topics include: Stoichiometry, Thermodynamics, Atomic Structure, Quantum Mechanics, Periodicity, Kinetics, and Electrochemistry. It follows the curriculum prescribed by the College Board and provides preparation for the AP Chemistry Exam.

GRADE LEVEL: 11-12

CATEGORY: Fulfills Science requirement

PREREQUISITE: Honors Chemistry

LENGTH: 1 Year

Physics

This course seeks to build a strong conceptual understanding of physics. This is a base for all students to view nature more perceptively to see that surprisingly few relationships make up all its rules. Emphasis will be placed on the development of understanding through analysis of lab activities and in-class discussion. For students wishing further study in science, it provides a conceptual base and a springboard to a greater involvement in sciences, as students will develop problem solving, critical thinking, and data analysis skills that are relevant to a wide variety of subject areas.

GRADE LEVEL: 11-12

CATEGORY: Fulfills Science requirement

PREREQUISITE: Geometry

LENGTH: 1 Year

AP Physics

Advanced Placement Physics is more rigorous than the standard physics course and the pace of the course is accelerated. Most of the topics covered are the same as the standard physics course with the addition of rotational dynamics, conservation of angular momentum and several others. The problems and labs are more challenging and require the application of advanced mathematics and creative problem solving skills. This course is recommended for students who plan to pursue a science related field at a four-year college or university and will prepare them to take the Advanced Placement Physics exam in May.

GRADE LEVEL: 11-12

CATEGORY: Fulfills Science requirement

PREREQUISITE: Pre-Calculus or concurrent enrollment in Pre-Calculus

LENGTH: 1 Year

Physical Science*

While based upon the principles of chemistry and physics, the course will stress laboratory inquiry, conceptual relationships and higher order thinking skills. These principles are developed through laboratory experiences, class discussions, and homework. Emphasis is on the connection of chemistry and physics concepts to everyday interests and concerns. This course, along with Earth and Space Science and Biology, will fulfill the 3 years of science required for graduation.

GRADE LEVEL: 11-12

CATEGORY: Fulfills Science requirement

PREREQUISITE: Earth and Space Science and Biology

LENGTH: 1 Year

Social Studies

American Studies*

American Studies surveys the political, economic, social, and diplomatic development from the late 1800s to the present. The course examines the important issues, personalities, and events from the time period and is designed so that students gain an understanding and appreciation of how the past and present are connected. Through a variety of learning opportunities, students will develop critical thinking skills that can be applied to past, present, and future events.

GRADE LEVEL: 9-10

CATEGORY: Fulfills U.S. History requirement

PREREQUISITE: None

LENGTH: 1 Year

World History for Tomorrow*

This course offers a survey of world history. We will examine major civilizations and events as they occurred in time. Within this chronological framework, we will present, discuss and evaluate several important content themes, and help develop basic analytical skills. This course will address the following content themes: 1. Patterns and impacts of interaction among major societies: trade war, diplomacy, and international organizations. 2. Relationship of change and continuity across the time periods of this course. 3. Impact of technology and demography on people and the environment. 4. Systems of social structure and gender roles within and among societies. 5. Cultural and intellectual developments and interactions within and among societies. 6. Changes in functions and structures of states and in attitudes toward states and political identities.

GRADE LEVEL: 10-12

CATEGORY: Fulfills World History requirement

PREREQUISITE: None

LENGTH: 1 Year

U.S. Government I: Foundations and Principles*

In Government I, students will examine the foundations and principles of the American political system's federal republic and analyze the political structure, power, and processes established by the U.S. Constitution. Students will study the rights guaranteed to citizens in our democratic society and the protections extended to each citizen in the Bill of Rights. Finally, students will examine their role in the democratic society through a study of the mass media, political parties, interest groups and campaigns/elections.

GRADE LEVEL: 11-12

CATEGORY: Fulfills 1 trimester of U.S.

Government requirement

PREREQUISITE: None

LENGTH: 1 Trimester

U.S. Government II: Institutions and Policy*

In Government II, students will examine the structure, functions, and policies of American government at the national, state, and local levels. The class includes an analysis of the roles and responsibilities of each of the three branches of government in all levels of government, with an emphasis on the creation and implementation of fiscal policy. Finally, students will build personal financial literacy skills through the study of topics such as debt, marketing, consumer protection, and financial responsibility.

GRADE LEVEL: 11-12

CATEGORY: Fulfills 1 trimester of U.S. Government requirement

PREREQUISITE: U.S. Government I:

Foundations and Principles recommended

LENGTH: 1 Trimester

Economics*

Economics studies how individuals, businesses, and governments deal with scarce resources. Students also focus on the development of personal financial literacy through the real-world exploration of topics such as savings, credit, debt, insurance, wealth building, investing and risk management. Emphasis is placed on the basic concepts, principles, and reasoning skills related to economic choices so that students will become informed consumers, workers, and citizens.

GRADE LEVEL: 11-12

CATEGORY: Fulfills Economics requirement

PREREQUISITE: None

LENGTH: 1 Trimester

AP US History

The AP U.S. History course focuses on developing students' understanding of American history from approximately 1491 to the present. The course has students investigate the content of U.S. history for significant events, individuals, developments, and processes in nine historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past. The course also provides seven themes (American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world; geography and the environment; and culture and society) that students explore

throughout the course in order to make connections among historical developments in different times and places.

GRADE LEVEL: 10-12 (City High Freshmen may register for this course if they achieved all A's in 8th grade social studies classes AND achieved at the 97th percentile on the Iowa norms (or equivalent) composite score or equivalent.)

CATEGORY: Fulfills U.S. History requirement

PREREQUISITE: None

LENGTH: 1 Year

AP Human Geography (West & Liberty High only)

AP Human Geography presents high school students with the yearlong curricular equivalent of an introductory college course in human or cultural geography. The course is focused on applying geographic skills to real world issues and problems that are global and historical in scope. Emphasized topics include an analysis of population, politics, culture, agriculture, economic development, and urban development and their impacts on human activities and the environment.

GRADE LEVEL: 9-12

CATEGORY: Fulfills World History requirement

PREREQUISITE: None

LENGTH: 1 Year

AP European History (West High only)

AP European History includes history as content and methodology, while examining historical continuity along with change and traditional themes: 1) political and diplomatic; 2) intellectual and cultures; and 3) economic and social history. The AP course is designed to cover the post- 1450 period of European History, focusing on the transition from feudal systems to the rise of early modern and modern institutions, beliefs, and movements. This course has a high volume of reading and features many writing assignments.

GRADE LEVEL: 10-12

CATEGORY: Fulfills World History requirement

PREREQUISITE: None

LENGTH: 1 Year

AP World History (City & Liberty High only)

AP World History is a yearlong course that expands students' understanding of world history from 8000 B.C.E. to the present. The course has students analyze the content of

world history for significant events, individuals, developments, and processes in six historical time periods. Students will work to develop the same historical thinking skills and methods used by historians when they study the past. The course focuses on five themes: the interaction between humans and the environment; the development and spread of cultures; state building, expansion, and conflict; the creation and growth of economic systems; and the formation and transformation of social structures. The course challenges students to make connections among different times and places encompassing the five major geographical regions of the globe: Africa, the Americas, Asia, Europe, and Oceania.

GRADE LEVEL: 10-12

CATEGORY: Fulfills World History requirement

PREREQUISITE: (1) Completion of a Summer Reading Assignment; and (2) Recommendation of American Studies teacher.

LENGTH: 1 Year

AP Government & Politics

AP Government & Politics focuses on the fundamental principles, institutions, processes and policies related to United States government and politics. Emphasized topics include the US Constitution, federalism, civil liberties & civil rights, linkage institutions, national policy-making institutions and the creation and implementation of public policy.

GRADE LEVEL: 11-12

CATEGORY: Fulfills US Government requirement.

PREREQUISITE: None

LENGTH: 1 Year

AP Economics: Micro and Macro

AP Microeconomics is an introductory college-level course that focuses on the principles of economics that apply to the functions of individual economic decision-makers. The course also develops students' familiarity with the operation of product and factor markets, distributions of income, market failure, and the role of government in promoting greater efficiency and equity in the economy. AP Macroeconomics is an introductory college-level course that focuses on the principles that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level

determination; it also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts.

GRADE LEVEL: 11-12

CATEGORY: Fulfills Economics requirement

PREREQUISITE: None

LENGTH: 1 Year

AP Psychology

This course provides training in and encourages students to apply the methods of social scientists to answer psychological questions about behavior and mental processes. Students may gain college credit for this introductory level-equivalent course by obtaining a qualifying score on the national exam in the spring. The course progresses through each of the major divisions of research as defined by the American Psychological Association (APA). Topics include history and approaches, research methods, biological bases of behavior, sensation and perception, states of consciousness, learning and memory, cognition, motivation and emotion, developmental psychology, abnormal psychology, treatment of psychological disorders and social psychology.

GRADE LEVEL: 11-12

CATEGORY: Elective

PREREQUISITES: None (Behavioral Science Recommended for City High Students)

LENGTH: 1 Year

The Civil War (City High only)

The Civil War has been called the defining moment in American History. By examining the political, social and military aspects of the war, students will have a better understanding of why this war was fought. Students will study American society before and during the conflict, the North and South, Iowa's role before and during the war, battles and campaigns. Students will be responsible for one research paper and presentation.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Trimester

Behavioral Science (City High only)

This survey course introduces students to psychology, sociology, and anthropology. The human life span is emphasized: the child

and the family, adolescence, the elderly, death and dying. A better understanding of self and others is intended.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Trimester

General Psychology (City High only)

This is a survey course that introduces students to the behavior of the individual human being and an understanding of their own behavior. Areas of study include a brief introduction to the field of psychology, psychophysiology, consciousness, learning and memory, creativity, personality, and life adjustment.

GRADE LEVEL: 11-12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Trimester

Abnormal Psychology (City High only)

This course deals primarily with behavior that our society deems non-normal or abnormal. Units include: Emotional Disorders (anxiety, multiple-personality), Mental Disorders (schizophrenia), Mood Disorders (depression, suicide), Psychosexual Disorders (rape), and Personality Disorders (antisocial). Students planning medical, legal, criminal justice or other service-oriented occupations are encouraged to take this course.

GRADE LEVEL: 12
CATEGORY: Elective
PREREQUISITE: One of the following: AP Psychology, Behavioral Science, General Psychology or Sociology
LENGTH: 1 Trimester

Psychology I (West High and Liberty High only)

The Psychology courses introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are encouraged to register for all three Psychology courses. Units of study include: Psychology's History and Approaches; Research Methods of Psychological Science; and Biological Bases of Behavior.

GRADE LEVEL: 11-12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Trimester

Psychology II (West & Liberty High only)

Psychology II is a continuation of Psychology I with the continued focus of the scientific study of psychology. Units of study include: Biological Bases of Behavior: Genetics; Sensation and Perception; States of Consciousness; Learning: Classical and Operant Conditioning, Thinking, Problem Solving, Creativity, and Language; Learning Intelligence-Testing and Individual Differences; and Motivation and Emotions, Stress, and Health.

GRADE LEVEL: 11-12
CATEGORY: Elective
PREREQUISITE: Psychology I.
LENGTH: 1 Trimester

Psychology III (West & Liberty High only)

Psychology III is a continued focus on the scientific study of psychology and is the conclusion of the introductory course in the field of psychology. Units of study include: Developmental Psychology; Personality; Abnormal Behavior; Treatment of Psychological Disorders; and Social Psychology.

GRADE LEVEL: 11-12
CATEGORY: Elective
PREREQUISITE: Psychology I & II.
LENGTH: 1 Trimester

Sociology

Sociology is a survey course that introduces students to the study of human society and social behavior. The study of sociology helps students gain a better understanding of their interpersonal relationships and the forces that affect us in social situations. Areas of study include an introduction to the field of sociology, concepts and issues relevant to group and societal interactions and the influence of social conditions on people's lives.

GRADE LEVEL: 10-12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Trimester

Debate (West & Liberty High only)

This elective course will introduce students to the concepts of academic educational debating as is currently conducted in competitive high school speech and debate. Students will work on analysis and synthesis of information as well as skills in argumentation, research, delivery, refutation, and organization. Although not a

requirement of the course, interested students are strongly encouraged to join the school's debate team.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Trimester

Ethnic Studies: Identity, Power, Privilege and Action

Identity, Power, Privilege and Action is a trimester social studies elective that provides students an in-depth examination of contemporary issues related to identity (race, ethnicity, gender, sexuality, class, among others), culture, power and privilege. The course uses an empowerment model that prioritizes student-centered explorations and discussions of how identity, power and privilege connect to contemporary local, national and international events. Questions such as "Who am I? Where did I come from? Where am I going? What kind of community member am I? What power do I have to make change in my community?" guide students throughout the course. The course culminates with the student's creation of a service project that emphasizes awareness and/or action.

GRADE LEVEL: 10-12
CATEGORY: Elective
PREREQUISITE: American Studies, AP US History or AP Human Geography (or at teacher's discretion)
LENGTH: 1 Trimester

World Language

Spanish I

Spanish I provides the foundation of language learning in listening comprehension, speaking, reading, and writing. Language is taught through a variety of everyday situations and within a context of the culture of Spanish-speaking countries. Areas of study include: greetings and conversation, foods, numbers, dates, weather, seasons, family, home, school activities, friends, culture, everyday Spanish life, Spanish speaking countries, idiomatic phrases, pronunciation, and grammatical structures. Emphasis is placed on communication using appropriate grammar and vocabulary. Students participate in a variety of activities and do daily homework to develop an acceptable level of language proficiency. Students may elect Spanish II or Spanish II Honors after this course.

GRADE LEVEL: 9-12

CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Year

Spanish II

Spanish II expands students' knowledge of the Spanish language and their understanding of the culture. A variety of everyday situations also let the student practice these new skills. Areas of study include: conversational phrases, short stories, cultural studies and a variety of grammatical structures. Spanish II builds on the language foundation begun in Spanish I. Emphasis on communication with necessary grammar and vocabulary continues. Students may elect Spanish III or Spanish III Honors after this course. Students must pass each trimester in order to continue to the next trimester or level of language study.
GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Successful completion of Spanish I
LENGTH: 1 Year

Spanish II Honors

Spanish II Honors is for highly motivated students who have shown proficiency and talent in language learning and are interested in expanding their knowledge of the language and culture. This course is intended for students with a high level of self-motivation who wish to explore grammar, vocabulary, and cultural topics in more depth than the Spanish II regular offering. This course builds on the foundation from Spanish I. The goal is to increase student proficiency in all skills through extensive speaking, reading, writing, listening, and cultural study. The class is conducted primarily in Spanish. Students may elect Spanish III or Spanish III Honors after this course. Students must pass each trimester in order to continue to the next trimester or level of language study.
GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Successful completion of Spanish I and prior approval of a Spanish teacher
LENGTH: 1 Year

Spanish III

Spanish III reviews previously learned skills, expands vocabulary and introduces more complex language. Includes a comprehensive review of material presented in Spanish I and II. Students improve their language proficiency and broaden their understanding

of Hispanic cultures. Other specific areas of study include: art, and music, and how Hispanic cultures interact with our own. Legends, short stories, and various other materials are read. Much of the class is conducted in Spanish. Students may elect either **Spanish IV** or **AP Spanish** after this course. Students must have a passing grade at the end of each trimester in order to continue to the next trimester or level of language study.
GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Successful completion of Spanish II
LENGTH: 1 Year

Spanish III Honors

Spanish III Honors is for highly motivated students who have demonstrated an ability to acquire language quickly and intend to improve and expand their skills and continue Spanish in college. Spanish III Honors reviews previous skills, expands vocabulary and introduces more complex language. Students improve their language proficiency and broaden their understanding of Hispanic cultures through various units and projects. The class is conducted primarily in Spanish. Students may elect either **Spanish IV** or **AP Spanish** after this course. Students must have a passing grade at the end of each trimester to continue to the next trimester or level of language study.
GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Successful completion of Spanish II Honors or prior approval of a Spanish II teacher
LENGTH: 1 Year

Spanish IV

Spanish IV strengthens and increases communication skills in the areas of speaking, listening, writing, and cultural understanding. In this course, students: are exposed to selected Spanish literature, history and culture; increase vocabulary and language skills via exposure to authentic sources; and learn to write and speak spontaneously on different topics, implementing previously learned grammatical concepts. The course is conducted primarily in Spanish and is preparatory for college placement. Students must have a passing grade at the end of each trimester in order to continue to the next trimester or level of language study. Students who are enrolled in this course are eligible to participate in a two-week trip to

Spain in March. Students may elect to take **Spanish V** or **AP Spanish** after this course.
GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Successful completion of Spanish III
LENGTH: 1 Year

AP Spanish

AP Spanish IV is the first year of a rotating curriculum, intended for highly motivated students who aim to improve their skills and/or continue Spanish in college. The goal is to increase language proficiency in all skills through extensive speaking, reading, writing and listening, with cultural study. The course is conducted completely in Spanish. Given that the class is preparatory for college placement and achievement tests, students receive practice for the AP Spanish Language and Culture Exam. The curriculum is theme based and includes discussions about a wide variety of contemporary issues. Authentic listening and reading will be presented via Spanish television, newspaper articles, and magazines. Students who are enrolled in this course may elect to participate in a two-week trip to Spain in March.
GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Successful completion of Spanish III Honors or prior approval of a Spanish III teacher
LENGTH: 1 Year

Spanish V (Seal of Biliteracy)

Spanish V (Seal of Biliteracy) is a continuation course for students who have completed either Spanish IV or AP Spanish IV. The course is intended for highly motivated students who wish to both improve and maintain their Spanish skills. The curriculum will include a continued development of literacy, auditory, oral and writing skills and will be aligned with the expectations required to achieve the Seal of Biliteracy. The course will be conducted completely in Spanish with an emphasis on advanced speaking and writing skills. Students who are enrolled in this course may apply to receive the Seal of Biliteracy upon completion of the course. Students continuing from the AP course will further their abilities on the language skills required for the AP Language and Culture Exams in May.
GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Successful completion of Spanish IV or AP Spanish
LENGTH: 1 Year

French I

French I, provides the foundation for language learning in listening comprehension, speaking, reading, writing and culture. Emphasis is on communication using appropriate grammar and vocabulary. Language is taught through a variety of everyday situations and within the context of the culture of French-speaking countries.

Areas of study include: pronunciation, greetings and conversation, colors, numbers, dates, weather, seasons, vocabulary related to family, home, school, activities and friends, cultural items, geography, everyday French life, French songs, idiomatic phrases, grammar structures, the present tense of regular and irregular verbs, adjectives and adverbs. Students participate in activities and do daily homework to develop language proficiency. Students must have a passing grade at the end of each trimester in order to continue to the next trimester or level of language study.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Year

French II

French II builds on the foundation begun in French I. Emphasis on communication with necessary grammar and vocabulary continues. The class expands the students' knowledge of the French language and French culture. Grammar study is expanded to help the student learn to use the language. A variety of everyday situations allows the student to practice the language skills. Audio and video recordings and computer software are used to enrich the learning experience. Areas of study include: pronunciation, vocabulary, cultural capsules, idiomatic phrases, regular and irregular verbs in the present, past and immediate future tenses, grammar structures including object pronouns, comparisons of adjectives and adverbs, uses of the infinitive, foods and cooking, geography, short stories and plays. Students must have a passing grade at the end of each trimester in order to continue to the next trimester or level of language study.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: Successful completion of French I

LENGTH: 1 Year

French III

French III reviews previously learned skills, expands vocabulary and introduces more complex language. Students improve their language proficiency and broaden their understanding of French cultures. Much of the class is conducted in French. French III continues the study of French and the communication skills begun in French I and II. Added emphasis is placed on application of reading, writing, and listening skills and a special emphasis on speaking skills in appropriate context for language practice. French III will include a review of grammatical structures previously learned and the study of reflexive verbs, relative pronouns and the imperfect and future verb tenses as well as the conditional and subjunctive. In addition to the textbook, the course will include films, varied readings, as well as research projects using technology in the library and the computer lab. Students must have a passing grade at the end of each trimester in order to continue to the next trimester or level of language study.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: Successful completion of French II

LENGTH: 1 Year

French IV

French IV strengthens and improves communication skills in the areas of speaking listening, writing and cultural understanding. The course is conducted primarily in French with a strong cultural component to the curriculum. This course is preparatory for college placement. Students may elect to take AP French after this course. French IV stresses the application of previously acquired language skills. This class is theme based. Grammar is reviewed in every theme. Themes include: relationships, city life, government, media, family, immigration, racism. Students will also read two novels. Authentic materials are utilized to help build communication skills. Special emphasis is placed on speaking and preparation for traveling abroad. Students will work to prepare for college entrance/placement exams and travel to France for the optional spring break trip.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: Successful completion of French III

LENGTH: 1 Year

AP French

This AP French course is intended for students who wish to both improve and maintain their French skills. This AP French curriculum rotates; it is theme based and includes a grammar review, continued development of speaking, listening, reading and writings skills through the use of authentic literature, film and a variety of materials from the Francophone world. Students will participate in discussions about contemporary issues facing French/ francophone societies. Students will work to prepare for the AP exam, college entrance/placement exams and travel to France for the optional spring break trip.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: Successful completion of French III and prior approval of a French teacher

LENGTH: 1 Year

French V (Seal of Biliteracy)

French V (Seal of Biliteracy) is a continuation course for students who have completed either French IV or AP French IV. The course is intended for highly motivated students who wish to both improve and maintain their French skills. The curriculum will include a continued development of literacy, auditory, oral and writing skills and will be aligned with the expectations required to achieve the Seal of Biliteracy. The course will be conducted completely in French with an emphasis on advanced speaking and writing skills. Students who are enrolled in this course may apply to receive the Seal of Biliteracy upon completion of the course. Students continuing from the AP course will further their abilities on the language skills required for the AP Language and Culture Exams in May.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: Successful completion of French IV or AP French

LENGTH: 1 Year

ADDITIONAL COURSES

AP Capstone Seminar (city & West High only)

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues

by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational literary and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in research based written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

GRADE LEVEL: 10-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Year

AP Capstone Research (City & West High only)

AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a yearlong research based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of 4000–5000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense.

GRADE LEVEL: 10-12

CATEGORY: Elective

PREREQUISITE: AP Seminar

LENGTH: 1 Year

Success Center*

The Success Center is designed to help students become more successful at mastering the academic and communication skills necessary to navigate high school. Placement in Success Center is based on recommendations from administrators, counselors, and/or teachers.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Year

How College Works

Explores individual strengths, strategies for solidifying personal responsibility, college readiness/academic success strategies, career readiness/vocational goals for students as they identify a college program or major. Emphasizes differences between high school and college expectations. Identifies appropriate career areas. Offers aids in taking and using placement tests for college admission and personal financial management. This is a dual credit Kirkwood Community College course.

GRADE LEVEL: 11-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Semester

iJAG

iJAG offers a venue for students to interact with employers and community-based organizations through project based learning. The iJAG program teaches 37 core competencies comprised of six skill sets: personal skills, leadership skills, communication skills, job attainment skills, job success skills and career development skills. The ultimate goal of iJAG is to engage students with classroom and project-based learning experiences that result in quality careers after graduation. iJAG works to develop workplace competencies in students that assist in their success in career/life transitions by: providing individual career education, increasing academic achievement, and providing school-to-work transition by following up with students for one year following high school graduation.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Year

Aggression Replacement Therapy (City High only)

Aggression Replacement Training (ART) is a research-based, proven-effective approach for working with youth with anger issues. Aggression Replacement Training features three coordinated and integrated components:

Social Skills Training—Teaches participants what to do, helping them replace antisocial behaviors with positive alternatives.

Anger Control—Teaches participants what not to do, helping them respond to anger in

a nonaggressive manner and rethink anger-provoking situations. Moral Reasoning—Helps raise participants' level of fairness, justice, and concern for the needs and rights of others.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Trimester

Peer Assistance and Leadership (PALs) (West & Liberty High only)

The Peer Assistance Leadership and Service (PALS) course is for selected high school students who are trained in community service, conflict resolution, and as peer helpers to work with other students in their own school and/or in feeder middle or elementary schools.

GRADE LEVEL: 11-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Year

AVID (Advancement Via Individual Determination)

AVID, which stands for Advancement Via Individual Determination, is a college readiness program designed to help students develop the skills they need to be successful in college. Students receive the additional academic, social, and emotional support that will help them succeed in their school's most rigorous courses. The program places special emphasis on growing writing, critical thinking, teamwork, organization and reading skills. Students must complete an application to be accepted into this course.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Year

Tech Support: Media Production* (Tate High only)

This is an entry-level production course. Students will develop the ability to capture images, video, and audio and to edit those elements together to communicate a message or tell a story.

GRADE LEVEL: 9-12

CATEGORY: Elective

PREREQUISITE: None

LENGTH: 1 Trimester

English Language Learner Program

The English Language Learner Program offers high quality English language instruction and support for English Learners to meet academic standards through curriculum aligned to IA Core and English Language Proficiency Standards in all subject areas. Students who are not yet proficient in the English language are assessed according to state/federal guidelines and placed in language development courses as part of their general education program. Courses are offered for beginning, intermediate, and advanced English learners and provide explicit instruction in all of the language domains (listening,

speaking, reading, and writing) with an emphasis on developing academic language proficiency. Sheltered content courses for English Learners provide support in learning core subject matter while promoting language development.

Driver's Education

All students can receive driver's education through their resident school district, through a private company, or through Parent Taught Driver's Education (<https://iowadot.gov/mvd/driverseducation/parent-taught>). ICCSD contracts with Kirkwood Community College for Driver's Education to offer driver's education onsite at the three high schools, either before or after school, along with one driving period each week during the school day. The course

lasts one trimester. Students pay Kirkwood directly for the cost of the program. Students who qualify for free or reduced price lunch can apply to have this fee waived. Students need to contact their resident school's counseling department in January of the year preceding desired enrollment and must have a valid learner's permit.

GRADE LEVEL: 9-12

CATEGORY: No Credit Awarded

PREREQUISITE: Valid Learner's Permit

LENGTH: 1 Trimester

*** NOTE: Courses marked with an asterisk (*) are offered at Tate High School in addition to City, West, and Liberty, unless otherwise noted.**

CAREER PATHWAYS

The next section of this Program of Studies contains information on Career Pathways for each of the 16 Career Clusters outlined in the National Career Clusters Framework. Through a joint venture with Kirkwood Community College, ICR Future, Grant Wood AEA, and the Iowa City Community School District, each pathway was developed to delineate high school coursework and activities, along with post-secondary opportunities, aligned to the career cluster. These documents are designed to assist students in thinking about and planning for possible future careers. Students are always encouraged to work with their school counselors as an essential partner in this process. School counselors will have the most up to date information and personalized recommendations.



Agriculture, Food & Natural Resources

- ▶ NATURAL RESOURCES SYSTEMS
- ▶ PLANT SYSTEMS
- ▶ POWER, STRUCTURAL & TECHNICAL SYSTEMS
- ▶ ARCHITECTURE & CONSTRUCTION
- ▶ AGRIBUSINESS SYSTEMS
- ▶ ANIMAL SYSTEMS
- ▶ ENVIRONMENTAL SERVICE SYSTEMS
- ▶ FOOD PRODUCTS & PROCESSING SYSTEMS

A career in agriculture, food, and natural resources requires certain skills and education depending on job requirements. Skills include promotion, processing, marketing, distribution, financing, and development of agricultural commodities including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.

Bachelor's Degree from Iowa Universities and Colleges	Sample Career	Salaries
Environmental Studies	Environmental Engineering	\$76,050
Food Science	Health and Food Inspector	\$74,500
Animal Science	Animal Scientist	\$76,970

**Additional Bachelor's Degrees include: Agricultural and Life Sciences Education, Biology, Agricultural Biochemistry, Dairy Science, Agricultural Business, Environmental Science, Agricultural Engineering, Agricultural Studies, Agricultural Systems Technology, Horticulture, Agricultural and Society, Landscape Architecture, Agronomy, Nutritional Science, Animal Ecology, Veterinary Medicine*

Kirkwood Associate's Degree	Sample Career	Salaries
Agricultural Geospatial Technology	Mapping Technician	\$45,000
Agriculture Business	Crop Scouting	\$49,000
Agriculture Production Management	Agriculture Sales	\$33,000
Diesel Ag Technology	Heavy Diesel Equipment Technician	\$41,000
Diesel Truck Technology	Diesel Mechanic	\$40,000
Golf Course and Athletic Turfgrass Management	Grounds Manager	\$47,000
Veterinary Technology	Vet Tech	\$32,000
Humane Officer	Animal Control Officer	\$32,000
Landscape Construction and Design	Landscape Architect	\$54,900
Parks and Natural Resources	Gaming Officer	\$32,600
Water Environmental Technology	Water Treatment Operator	\$45,000



Agriculture, Food & Natural Resources

Kirkwood Diploma	Sample Career	Salaries
Agriculture Production	Seed Production	\$35,000
Pet Grooming	Pet Groomer	\$27,000
Golf Course and Athletic Turfgrass Management	Grounds Maintenance	\$37,500
Veterinary Assistant	Vet Assistant	\$24,000
Animal Control Assistant	Animal Care Assistant	\$24,500
Landscape Construction and Design	Landscape Worker	\$27,700
Water Environmental Technology	Environmental Technician	\$31,000
Water Treatment Specialist	Water Treatment Specialist	\$31,000
Wastewater Specialist	Wastewater Operator	\$39,000
Kirkwood Certificates	Sample Career	Salaries
Agricultural Geospatial Technology	Farm Machinery Operator	\$35,200
Small Scale Food Production	Farm Laborer	\$27,700
Kirkwood Career Academies	Sample Career	Salaries
Agriculture Sciences	Field Technician	\$26,400
Water Environmental Technology	Water Operator	\$24,950



**Information provided by Emsi National data and Kirkwood Community College Regional Talent Forecast Data – Nov. 2018*



High School Courses

Introduction to Agriculture, Food and Natural Resources
 Biology
 Culinary Arts 1, 2 & 3
 Intro to Business

High School Related Activities and Clubs

Internships
 Job Shadows
 FFA
 Garden Club
 4H



Architecture & Construction

- ▶ CONSTRUCTION
- ▶ DESIGN/PRE-CONSTRUCTION
- ▶ MAINTENANCE/OPERATIONS

A career in architecture and construction requires certain skills and education depending on job requirements. Skills include designing, planning, managing, building, and maintaining the built environment.

Bachelor's Degree from Iowa Universities and Colleges	Sample Career	Salaries
Architecture	Architect	\$83,750
Civil Engineering	Civil Engineer	\$81,850
Industrial Design	Electronic Engineer	\$69,800
Industrial Engineer	Industrial Engineer	\$78,950
Construction Management	Construction and Building Inspector	\$62,130

**Additional Bachelor's Degrees include: Art & Design, Community & Regional Planning, Construction Engineering, Construction Management, Forestry, Graphic Design, Industrial Engineering, Industrial Technology, Interdisciplinary Design, Interior Design, Landscape Architecture, Materials Engineering*

Kirkwood Associate's Degree	Sample Career	Salaries
Architecture Technology	Architectural Drafter	\$50,900
CAD/Mechanical Engineering Technology	CAD Drafter	\$54,900
Construction Management	First Line Supervisor	\$61,200
Interior Design	Interior Designer	\$40,000

Kirkwood Diploma	Sample Career	Salaries
CAD/Mechanical Engineering Technology	Mechanical Engineering Technician	\$49,900
Carpentry	Carpenter	\$42,900
HVAC Installer	HVAC Installer	\$50,500
Plumbing Pre-Apprenticeship	Plumber (If followed by an apprenticeship)	\$50,200

Kirkwood Certificates	Sample Career	Salaries
Construction Estimator	Estimator	\$35,000
Construction Supervision Certificate	Construction Coordinator	\$50,950

Kirkwood Career Academies	Sample Career	Salaries
ACE: Construction Trades (Pre-Apprenticeship)	Entry Level Construction Laborer	\$37,050
ACE: Architectural and Engineering Design (Pre-Apprenticeship)	Design Assistant	\$30,100



**Information provided by Emsi National data and Kirkwood Community College Regional Talent Forecast Data – Nov. 2018*



High School Courses

- Fundamental of CAD
- Fundamentals of Electricity 1 & 2
- Construction Skills
- Manufacturing 1 & 2
- Introduction to ACE
- Construction Technology
- Architectural Plans and Specifications
- Introduction to Engineering Design
- Principles of Engineering
- Civil Engineering & Architecture
- Aerospace Engineering
- Environmental Sustainability
- Digital Electronics
- Computer Integrated Manufacturing
- Physical Science
- Physics
- Interior Design 1 & 2

High School Related Activities and Clubs

- Internships
- Job Shadows
- ACE Mentor Program
- Project Lead the Way
- Business Professional of America
- Physics Team
- Junior Engineering Technical Society
- Robotics Club



Arts, A/V Technology & Communications

- ▶ A/V TECHNOLOGY & FILM
- ▶ JOURNALISM & BROADCASTING
- ▶ PERFORMING ARTS
- ▶ PRINTING TECHNOLOGY
- ▶ TELECOMMUNICATIONS
- ▶ VISUAL ARTS

A career in arts, audio/visual technology and communications requires certain skills and education depending on job requirements. Skills include designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

Bachelor's Degree from Iowa Universities and Colleges	Sample Career	Salaries
Broadcasting	News Anchor	\$50,850
English	Technical Writer	\$54,650
Theater	Theatre Actor	\$50,900
Kirkwood Associate's Degree	Sample Career	Salaries
Graphic Communication Technology	Graphic Designer	\$45,700
Interior Design	Interior Designer	\$40,000
Web Technologies	Desktop Publisher	\$41,500
Kirkwood Career Academies	Sample Career	Salaries
Arts and Sciences Academy	Camera Operator	\$32,450
Graphic Communication Technology Academy	Merchandise Displayer	\$28,800
Kirkwood Certificates	Sample Career	Salaries
Social Media Marketing	Media Technician	\$34,400
Web Development	Website Developer	\$58,000
Web Design	Website Designer	\$47,700



*Information provided by Emsi National data and Kirkwood Community College Regional Talent Forecast Data – Nov. 2018



High School Courses

- Art Forms
- Black and White Drawing
- Exploring Color Through Drawing
- Expressive Drawing
- Creative Writing
- Band, Orchestra, Choir, and Theater
- Intro to Business
- Entrepreneurship
- Painting
- Digital Photography
- Advanced Photography
- Graphic Design
- Advanced Graphic Design
- Digital Photography
- Illustrator
- Video Production 1 & 2
- AP Studio Art
- Web Design
- Interior Design 1 & 2
- Public Speaking
- Media Literacy & Communications

High School Related Activities and Clubs

- Job Shadows
- Internships
- School Play/Musical
- Art Club
- Debate Club
- Speech Club
- Newspaper
- Yearbook



Business Management & Administration

- ▶ ADMINISTRATIVE SUPPORT
- ▶ BUSINESS INFORMATION MANAGEMENT
- ▶ GENERAL MANAGEMENT
- ▶ HUMAN RESOURCES MANAGEMENT
- ▶ OPERATIONS MANAGEMENT

A career in business management and administration requires certain skills and education depending on job requirements. Skills include planning, organizing, directing, and evaluating business functions essential to productive business operations.

Advanced Degree	Sample Career	Salaries
Master's Degree in Business Administration (MBA)	Executive Manager/CEO	\$179,500
Bachelor's Degree from Iowa Universities and Colleges	Sample Career	Salaries
Business	Operations Manager	\$96,750
Business Administration	Administrative Services Manager	\$88,600
Business Information Systems	Business Analytics & Info Systems	\$122,250
Business Management	Compensation & Benefits Manager	\$106,200
Human Resources	Human Resource Manager	\$102,950
<i>*Additional Bachelor's Degrees include: Business Teaching, Entrepreneurship, International Business</i>		
Kirkwood Associate's Degree	Sample Career	Salaries
Business Administration: Accounting	Accounting Clerk	\$37,400
Business Administration: Financial Services	Credit Counselor	\$40,200
Business Administration: Management	Community Service Manager	\$58,300
Administrative Management	Executive Assistant	\$48,700
Health Information Technology	HIT Technician	\$40,500
Business Administration w/ Transfer Option		
Kirkwood Diploma	Sample Career	Salaries
Office Assistant	Office Clerk	\$34,300
Medical Coding	Medical Secretary	\$35,200
Medical Transcription	Medical Transcriptionist	\$34,700
Kirkwood Certificates	Sample Career	Salaries
Technical Accounting	Bookkeeper	\$37,400
Global Perspectives in Business	Shipping, Receiving, and Traffic Clerks	\$34,600
Entrepreneurship	Business Continuity Planner	\$63,000
Human Resources	HR Assistant	\$39,200
Project Management	Project Manager	\$51,100
Medical Transcription	Medical Transcriptionist	\$28,900
Kirkwood Career Academies	Sample Career	Salaries
Pre-Business Administration	Receptionist	\$28,400
Arts and Sciences	Mail Clerk	\$29,100



**Information provided by Emsi National data and Kirkwood Community College Regional Talent Forecast Data – Nov. 2018*

High School Courses

- Public Speaking
- World Languages
- Introduction to Business
- Futures
- Computer Business Applications
- Entrepreneurship
- Marketing & Sales
- Web Design
- Personal Finance
- Accounting
- Professional Pathways

High School Related Activities and Clubs

- Internships
- Job Shadows
- Business Professionals of America



Education and Training

- ▶ ADMINISTRATION & ADMINISTRATIVE SUPPORT
- ▶ PROFESSIONAL SUPPORT SERVICES
- ▶ TEACHING/TRAINING

A career in education and training requires certain skills and education depending on job requirements. Skills include planning, managing, and providing education and training service, and related learning support services.

Bachelor's Degree from Iowa Universities and Colleges	Sample Career	Salaries
Elementary Education	Elementary Special Education Teacher	\$56,350
Secondary Education	High School Teacher	\$54,450
Organizational Leadership	Training Manager	\$87,250
<i>*Additional Bachelor's Degrees include: Athletic Training</i>		
Kirkwood Associate's Degree	Sample Career	Salaries
Early Childhood Education	Childcare Administrator	\$41,600
Exercise Science and Wellness	Fitness Trainer	\$32,800
Liberal Arts – Education w/ Transfer Option		
Kirkwood Diploma	Sample Career	Salaries
Early Childhood Education	Preschool Teacher	\$25,800
Kirkwood Career Academies	Sample Career	Salaries
Pre-Education Transfer	Teacher Assistant	\$24,400
Arts and Science Academy	Childcare Worker	\$20,500
Kirkwood Certificates	Sample Career	Salaries
Early Childhood Paraeducator	Paraeducator	\$24,900



**Information provided by Emsi National data and Kirkwood Community College Regional Talent Forecast Data – Nov. 2018*



High School Courses

- Child Development 1 & 2
- Behavioral Science
- Psychology 1 & 2
- Performance PE 1 & 2
- Public Speaking
- Sociology
- AP Psychology
- Psychology 1, 2, & 3
- World Languages

High School Related Activities and Clubs

- Job Shadows
- Internships
- Sports Team Manager
- Teacher Assistant
- PALS
- Weightlifting Club

A career in finance requires certain skills and education depending on job requirements. Skills include planning services for financial and investment planning, banking, insurance, and business financial management.

Bachelor's Degree from Iowa Universities and Colleges	Sample Career	Salaries
Accounting	Accountant	\$66,500
Finance	Financial Analyst	\$78,450
Financial Counseling and Planning	Loan Officer	\$69,100
Kirkwood Associate's Degree	Sample Career	Salaries
Business Administration: Accounting	Accounting Clerk	\$37,000
Business Administration: Financial Services	Financial Clerk	\$40,000
Kirkwood Certificates	Sample Career	Salaries
Technical Accounting	Bookkeeper	\$35,000
Kirkwood Career Academies	Sample Career	Salaries
Pre-Business Administration	Bank Teller	\$27,050
Arts and Sciences	Cashier	\$24,850



**Information provided by Emsi National data and Kirkwood Community College Regional Talent Forecast Data – Nov. 2018*



High School Courses

- Personal Finance
- Accounting
- On Your Own
- Economics
- AP Economics
- Introduction to Business
- AP Statistics

High School Related Activities and Clubs

- Job Shadows
- Internships
- Business Professionals of America



Government & Public Administration

- ▶ FOREIGN SERVICE
- ▶ GOVERNANCE
- ▶ NATIONAL SECURITY
- ▶ PLANNING
- ▶ PUBLIC MANAGEMENT & ADMINISTRATION
- ▶ REGULATION
- ▶ REVENUE & TAXATION

A career in government and public administration requires certain skills and education depending on job requirements. Skills include planning and performing government functions at the local, state, and federal levels, including governance, national security, foreign service, planning, revenue and taxation, and regulations.

Bachelor's Degree from Iowa Universities and Colleges	Sample Career	Salaries
Urban Planning	Urban and Regional Planners	\$64,980
Public Administration	Assessor	\$79,050
Accounting	Auditor	\$66,500
Kirkwood Associate's Degree	Sample Career	Salaries
Business Administration	City Clerk	\$43,000
Business Administration: Management	Chamber of Commerce Chair	\$50,000
Administrative Management	Executive Assistant	\$45,500
Water Environmental Technology	Water Treatment Operator	\$45,000
Kirkwood Diploma	Sample Career	Salaries
Office Assistant	Office Assistant	\$34,000
Kirkwood Career Academies	Sample Career	Salaries
Pre-Business Administration	Receptionist	\$28,400
Arts and Sciences	Mail Clerk	\$29,100
Water Environmental Technology	Water Operator	\$24,950



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High School Courses

- US History
- World History
- Public Speaking
- State and Local Government
- National Government
- Economics
- Advanced AP history and government classes also available

High School Related Activities and Clubs

- Internships
- Job Shadows
- Model UN
- Student Senate
- Mock Trial



Health Sciences

- ▶ BIOTECHNOLOGY RESEARCH & DEVELOPMENT
- ▶ DIAGNOSTIC SERVICES
- ▶ HEALTH INFORMATICS
- ▶ SUPPORT SERVICES
- ▶ THERAPEUTIC SERVICES

A career in health sciences requires certain skills and education depending on job requirements. Skills include planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

Advanced Degree	Sample Career	Salaries
Masters degree in Nursing	Nurse Practitioner	\$104,150
Masters degree in Health Science	Physician Assistant	\$110,150
Doctor of Medicine	Family and General Practice Medical Doctor	\$241,070

Bachelor's Degree from Iowa Universities and Colleges	Sample Career	Salaries
Biology	Nurse (with BSD degree)	\$70,650
Dietetics	Dietitian	\$50,500
Healthcare Administration	Healthcare Administrator	\$91,700
Nursing	Nurse (with BSN degree)	\$70,650

**Additional Bachelor's Degrees include: Culinary Food Science, Diet and Exercise, Food Science & Global Health Studies*

Kirkwood Associate's Degree	Sample Career	Salaries
Dental Assisting	Dental Assistant	\$39,900
Dental Hygiene	Dental Hygienist	\$68,700
Dental Technology	Dental Laboratory Tech	\$41,500
Diagnostic Assistant (Radiologic Technology)	Radiologic Technologist	\$51,700
Electroneurodiagnostic Technology	Neurodiagnostic Technologist	\$41,300
Exercise Science & Wellness	Fitness Trainer	\$32,800
Health Information Technology	Health Information Technician	\$40,500
Medical Assisting	Medical Assistant	\$34,000
Medical Laboratory Technology	Clinical Lab Technician	\$48,400
Associate Degree Nursing, RN	Critical Care Nurse	\$57,900
Occupational Therapy Assistant	OTA	\$57,400
Paramedic	Paramedic	\$40,000
Physical Therapy Assistant	PTA	\$47,500
Respiratory Therapist	Respiratory Therapist	\$52,800
Surgical Technology	Surgical Technologist	\$41,700



Health Sciences

Kirkwood Diploma	Sample Career	Salaries
Dental Assisting	Dental Assistant	\$39,900
Medical Coding	Medical Secretary	\$35,200
Medical Assisting	Phlebotomist	\$30,300
Medical Transcription	Medical Transcriptionist	\$34,700
Practical Nursing (LPN)	Nursing Home Nurse-LPN	\$41,600
Pharmacy Technician	Pharmacy Technician	\$31,100
Surgical Technology	Surgical Assistant	\$41,300
Kirkwood Certificates	Sample Career	Salaries
Medical Transcription	Entry Level Medical Transcriptionist	\$34,700
Nurse Aide	Certified Nurse Aide	\$28,300
EMT	EMT	\$34,500
Kirkwood Career Academies	Sample Career	Salaries
Emergency Medical Technician (EMT)	EMT	\$34,500
Patient Care Academy	Certified Nurse Aide	\$28,200
Pharmacy Technician Academy	Pharmacy Technician	\$31,200
Pre-Professional Health Careers Academy	Physical Therapist Aide	\$27,300



**Information provided by Emisi National data and Kirkwood Community College Regional Talent Forecast Data – Nov. 2018*



High School Courses

- Physical Science
- Biology
- Chemistry
- Physics
- Psychology 1, 2, & 3
- AP Psychology
- Sociology
- World Languages
- Culinary Arts 1, 2, & 3
- Advanced AP science classes also available

High School Related Activities and Clubs

- Internships
- Job Shadows
- Science Club



Hospitality & Tourism

- ▶ LODGING
- ▶ RECREATION, AMUSEMENTS & ATTRACTIONS
- ▶ RESTAURANTS & CULINARY ARTS SERVICES
- ▶ TRAVEL & TOURISM

A career in hospitality and tourism requires certain skills and education depending on job requirements. Skills include management, marketing, and operations of restaurants and other culinary arts services, lodging, attractions, recreation events, and travel related services.

Bachelor's Degree from Iowa Universities and Colleges	Sample Career	Salaries
Hospitality Management	Executive Hotel Manager	\$97,450
Business Administration	Property Manager	\$67,000
Event Management	Hospitality Professor	\$110,400
Kirkwood Associate's Degree	Sample Career	Salaries
Culinary Arts	Chef	\$38,100
Hospitality Management	Lodging Manager	\$44,000
Kirkwood Diploma	Sample Career	Salaries
Baking & Pastry Arts	Baker	\$25,600
Hospitality Management	Event Planner	\$43,700
Kirkwood Career Academies	Sample Career	Salaries
Hospitality Management Academy	Concierge	\$25,450



**Information provided by Emsi National data and Kirkwood Community College Regional Talent Forecast Data – Nov. 2018*



High School Courses

- Culinary Arts 1, 2 & 3
- Marketing and Sales
- Web Design
- World Language
- Public Speaking
- Psychology (1, 2, 3 or AP)
- Intro to Business

High School Related Activities and Clubs

- Internships
- Job Shadows
- Culture Club



Human Services

- ▶ CONSUMER SERVICES
- ▶ COUNSELING & MENTAL HEALTH SERVICES
- ▶ EARLY CHILDHOOD DEVELOPMENT & SERVICES
- ▶ FAMILY & COMMUNITY SERVICES
- ▶ PERSONAL CARE SERVICES

A career in human services requires certain skills and education depending on job requirements. Skills include preparing individuals that relates to family and human needs such as counseling and mental health services, family and community services, personal care, and consumer services.

Bachelor's Degree from Iowa Universities and Colleges	Sample Career	Salaries
Social Work	Social Worker	\$61,300
Elementary Education	Kindergarten Teacher	\$51,100
Psychology	Therapist	\$47,710
Kirkwood Associate's Degree	Sample Career	Salaries
Early Childhood Education	Preschool Teacher	\$25,800
Human Services	Substance Abuse Counselor	\$44,200
Kirkwood Diploma	Sample Career	Salaries
Early Childhood Education	Teacher Assistant	\$24,400
Kirkwood Certificates	Sample Career	Salaries
Early Childhood Paraeducator	Paraeducator	\$24,900
Kirkwood Career Academies	Sample Career	Salaries
Pre-Education Transfer	Teacher Assistant	\$24,400
Pre-Human Services Transfer (Social Work)	Patient Escort	\$28,900
Arts and Science Academy	Childcare Worker	\$20,500



**Information provided by Emis National data and Kirkwood Community College Regional Talent Forecast Data – Nov. 2018*



High School Courses

- Child Development 1 & 2
- Behavioral Science
- Psychology 1 & 2
- Health
- Current and Critical Health Issues
- Sociology

High School Related Activities and Clubs

- Job Shadows
- Internships
- Teacher Assistant



Information Technology

- ▶ INFORMATION SUPPORT & SERVICES
- ▶ NETWORK SYSTEMS
- ▶ PROGRAMMING & SOFTWARE DEVELOPMENT
- ▶ WEB & DIGITAL COMMUNICATIONS

A career in information technology requires certain skills and education depending on job requirements. Skills include building linkages in IT occupations for entry level, technical and professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration services.

Bachelor's Degree from Iowa Universities and Colleges	Sample Career	Salaries
<i>*Additional Bachelor's Degrees include: Technology, Technology and Engineering Education, Technology Management, Business Analytics and Information Systems, Technical Communication</i>		
Kirkwood Associate's Degree	Sample Career	Salaries
Computer Software Development	Software Developer	\$88,000
Computer Support Specialist	Desktop Configuration Administrator	\$59,700
Graphic Communication Technology	Graphic Designer	\$45,700
Web Technologies	Desktop Publisher	\$41,500
Network and System Administration	Network & Computer Systems Administrator	\$73,900
Kirkwood Diploma	Sample Career	Salaries
PC Technician	Computer Store Technician	\$50,900
Desktop Customer Service	Computer User Support Specialist	\$47,000
Kirkwood Certificates	Sample Career	Salaries
Database Technologies	Computer Operator	\$44,100
Java Programming	JAVA Script Developer	\$78,100
Mobile App Development	Web Application Developer	\$74,800
.NET Programming	Computer Programmer	\$58,100
Healthcare IT Technician	Document Management Specialist	\$77,300
Web Development	Website Developer	\$58,000
Web Design	Website Designer	\$47,700
Network Security	Security Management Specialist	\$63,300
Network and System Administration	Computer Network Support Specialist	\$54,000
Kirkwood Career Academies	Sample Career	Salaries
Computer Software Development (Coding)	User Experience Designer	\$40,000
Network Security	Information Clerk	\$28,800



**Information provided by Emisi National data and Kirkwood Community College Regional Talent Forecast Data – Nov. 2018*



High School Courses

- Computer Business Applications
- Advanced Computer Business Apps
- AP Computer Science
- PLTW Digital Electronics
- Computer Programming
- Web Design, Tech Support

High School Related Activities and Clubs

- Job Shadow
- Internship
- Business Professionals of America
- Robotics



Law, Public Safety, Corrections & Security

- ▶ CORRECTION SERVICES
- ▶ EMERGENCY & FIRE MANAGEMENT SERVICES
- ▶ LAW ENFORCEMENT SERVICES
- ▶ LEGAL SERVICES
- ▶ SECURITY & PROTECTIVE SERVICES

A career in law, public safety, corrections, and security requires certain skills and education depending on job requirements. Skills include planning, managing, and providing legal, public safety, protective services, and homeland security, including professional and technical support services.

Advanced Degree	Sample Career	Salaries
Juris Doctor, JD	Attorney/Lawyer	\$108,650
Bachelor's Degree from Iowa Universities and Colleges	Sample Career	Salaries
Public Health	Occupational Health and Safety Specialist	\$69,950
Criminology	Forensic Scientist	\$70,400
Linguistics	FBI Agent	\$97,000
Kirkwood Associate's Degree	Sample Career	Salaries
Criminal Justice	Police Patrol Officer	\$56,600
Entry-Level Firefighter	Firefighter/Prevention Supervisor	\$68,900
Paralegal Studies	Paralegal	\$48,100
Paramedic	Paramedic	\$40,000
Kirkwood Diploma	Sample Career	Salaries
Entry-Level Firefighter	Firefighter	\$41,200
Kirkwood Certificates	Sample Career	Salaries
Entry-Level Firefighter	Emergency Vehicle Operator	\$26,100
Emergency Medical Technician	EMT	\$26,100
Kirkwood Career Academies	Sample Career	Salaries
Pre-Criminal Justice Transfer	Security Guard	\$27,650
Emergency Medical Technician Academy	EMT	\$34,500
Arts and Sciences Academy	Police Dispatcher	\$44,550



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High School Courses

- | | |
|----------------------|------------------------------------|
| Biology | Sociology |
| Chemistry | Public Speaking |
| Behavioral Science | Current and Critical Health Issues |
| General Psychology | Essay Writing |
| Abnormal Psychology | Performance PE 1 & 2 |
| Psychology 1, 2, & 3 | |

High School Related Activities and Clubs

- Behavior and Forensic Science
- Mock Trial
- Volunteering
- Job Shadow
- Internship



Manufacturing

- ▶ HEALTH, SAFETY & ENVIRONMENTAL ASSURANCE
- ▶ LOGISTICS & INVENTORY CONTROL
- ▶ MAINTENANCE, INSTALLATION & REPAIR
- ▶ MANUFACTURING PRODUCTION PROCESS DEV.
- ▶ PRODUCTION
- ▶ QUALITY ASSURANCE

A career in manufacturing requires certain skills and education depending on job requirements. Skills include planning, managing, and performing the process of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.

Bachelor's Degree from Iowa Universities and Colleges	Sample Career	Salaries
Aerospace Engineering	Aerospace Engineer	\$112,550
Mechanical Engineering	Mechanical Engineer	\$74,100
Manufacturing Technology	Industrial Production Manager	\$96,150
Kirkwood Associate's Degree	Sample Career	Salaries
Advanced Manufacturing and Robotics Technologies	CNC Mill Operator	\$37,700
Advanced Welding Technologies	Pipefitter	\$50,200
Automation and Instrumentation Technologies	Electro-Mechanical Technician	\$55,100
CNC Machining Technology	Tool and Die Maker	\$48,200
Electronics Engineering Technology	Security System Technician	\$46,300
CAD/Mechanical Engineering Technology	Mechanical Engineering Technician	\$49,900
Energy Production and Distribution Technologies	Wind Turbine Service Technician	\$62,300
Industrial Maintenance	Electro-Mechanical Technician	\$55,100
Kirkwood Diploma	Sample Career	Salaries
Entry-Level Welding	Brazer	\$37,900
CNC Machining Technology	Machinist	\$39,000
Electronics Engineering Technology	Security System Technician	\$46,300
CAD/Mechanical Engineering Technology	Test Technician	\$40,800
HVAC Installer	Heating and Air Conditioning Mechanic	\$50,500
Electromechanical Technology	Electromechanical Assembler	\$39,500
Plumbing Pre-Apprenticeship	Plumber	\$50,200*
Kirkwood Certificates	Sample Career	Salaries
Industrial Robotics Certificate	Computer Controlled Machine Operator	\$38,300
Kirkwood Career Academies	Sample Career	Salaries
Advanced Manufacturing with Robotics & Welding	Fabricator	\$32,300
Energy, Electrical, and Automation Academy	Vending Machine Service/Repairer	\$31,650



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High School Courses

- Introduction to Engineering Design
- Principles of Engineering
- Civil Engineering & Architecture
- Aerospace Engineering
- Fundamental of CAD
- Construction Skills
- Computer Integrated Manufacturing
- Manufacturing 1 & 2

- Construction Technology
- Introduction to ACE
- Architectural Plans and Specifications
- Fundamentals of Electricity 1 & 2
- Digital Electronics
- Advanced Computer Business Applications

High School Related Activities and Clubs

- Job Shadow
- Internship
- JETS
- Robotics

Marketing

- ▶ MARKETING COMMUNICATIONS
- ▶ MARKETING MANAGEMENT
- ▶ MARKETING RESEARCH
- ▶ MERCHANDISING
- ▶ PROFESSIONAL SALES

A career in marketing requires certain skills and education depending on job requirements. Skills such as anticipating, planning, managing, and performing marketing activities to reach organizational objectives such as advertising and promotion techniques, business communication, and business development.

Bachelor's Degree from Iowa Universities and Colleges	Sample Career	Salaries
Marketing	Market Research Analyst	\$58,600
Advertising and Digital Media	Public Relations Manager	\$103,500
Communication Studies	Marketing Coordinator	\$59,700
<i>*Additional Bachelor's Degrees include: Global Marketing Sales, Management</i>		
Kirkwood Associate's Degree	Sample Career	Salaries
Business Administration: Marketing Management	Public Relations Specialist	\$56,000
Apparel Merchandising	Apparel Merchandising	\$60,400
Kirkwood Diploma	Sample Career	Salaries
Office Assistant	Office Assistant	\$34,000
Kirkwood Certificates	Sample Career	Salaries
Retail Marketing	Merchandise Displayer	\$28,800
Sales	New Accounts Clerk	\$37,200
Social Media Marketing	Media Technician	\$34,400
Kirkwood Career Academies	Sample Career	Salaries
Pre-Business Administration	Retail Sales	\$28,800
Graphic and Communication Technology	Promotional Assistant	\$33,100



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High School Courses

- Marketing and Sales
- Entrepreneurship
- Accounting
- Personal Finance
- Intro to Business
- Public Speaking
- Psychology 1, 2, & 3
- Web Design
- Futures
- Professional Pathways
- Graphic Design
- Advanced Graphic Design
- Activities

High School Related Activities and Clubs

- Internships
- Job Shadows
- Business Professionals of America



Science, Technology, Engineering & Math

- ▶ Engineering & Technology
- ▶ Science & Mathematics

A career in science, technology, engineering, and mathematics requires certain skills and education depending on job requirements. Skills include providing, planning, and managing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

Bachelor's Degree from Iowa Universities and Colleges	Sample Career	Salaries
Bio Chemistry	Bio Chemist	\$66,800
Actuarial Science	Actuary	\$100,750
Seed Science	Seed Scientist	\$76,700

**Additional Bachelor's Degrees include: Ag Engineering, Electrical Engineering, Microbiology, Physics, Geo Science, Ag and Life Sciences Education, Environmental Science, Nutritional Science, Bio Chemistry, Technology and Engineering Education, Animal Science, Family and Consumer Science Education, Physics, Communication Sciences and Disorder, Technology Management, Biological Systems Engineering, Food Science, Political Science, Computer Science, Technology, Chemical Engineering, Industrial Engineering, Seed Science, Earth Science, Applied Physics, Civil Engineering, Industrial Technology, Software Engineering, Graphic Technology, Bio Medical Engineering, Computer Engineering, Management and Information Systems, Statistics, Military Science, Business Analytics and Information Systems, Construction Engineering, Materials Engineering, Technical Communication, Movement and Exercise Science, Mortuary Science, Culinary Food Science, Mathematics, Biology, Science Education, Nuclear Medicine Technology, Dairy Science, Mechanical Engineering, Chemistry, Social Science, Radiation Sciences*

Kirkwood Associate's Degree	Sample Career	Salaries
Advanced Manufacturing & Robotic Technologies	CNC Mill Operator	\$37,700
CAD/Mechanical Engineering Technology	CAD Drafter	\$54,900
Computer Software Development	Software Developer	\$88,000
Computer Support Specialist	Desktop Configuration Administrator	\$59,700
Energy Production & Distribution	Wind Turbine Service Technician	\$62,300
Exercise Science & Wellness	Fitness Trainer	\$32,800
Industrial Maintenance	Electro-Mechanical Technician	\$55,100
Network & System Administration	Network & Computer Systems Administrator	\$73,900
Water Environmental Technology	Water Treatment Operator	\$45,000

Kirkwood Diploma	Sample Career	Salaries
PC Technician	Computer Store Technician	\$50,900
CAD/Mechanical Engineering Technology	Mechanical Engineering Technician	\$49,900
Desktop Customer Service	Computer User Support Specialist	\$47,000
Electromechanical Technology	Electromechanical Assembler	\$39,500



Science, Technology, Engineering & Math

Kirkwood Certificates	Sample Career	Salaries
Industrial Robotics	Computer Controlled Machine Operator	\$38,300
Database Technologies	Computer Operator	\$44,100
Java Programming	JAVA Script Developer	\$78,100
Mobile App Development	Web Developer	\$58,100
.NET Programming	Computer Programmer	\$58,100
Healthcare IT Technician	Document Management Specialist	\$77,300
Network Security	Security Management Specialist	\$63,300
Network and System Administration	Computer Network Support Specialist	\$54,000
Kirkwood Career Academies	Sample Career	Salaries
Advanced Manufacturing with Robotics & Welding	Fabricator	\$32,300
ACE: Architectural and Engineering Design (Pre-Apprenticeship)	Design Assistant	\$30,100
Computer Programming & Web Development	User Experience Designer	\$40,000
Engineering: Project Lead The Way	Sound Engineer	\$48,200
Pre-Professional Health Careers	Physical Therapist Aide	\$27,300
Water Environmental Technology	Water Operator	\$24,950



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High School Courses

- Algebra 1 & 2
- Geometry
- Pre-Calculus
- AP Calculus AB & BC
- AP Statistics
- PLTW Introduction to Engineering
- PLTW Principles of Engineering
- PLTW Digital Electronics
- PLTW Civil Engineering
- PLTW Aerospace Engineering
- PLTW Environmental Sustainability
- AP Computer Science
- Earth and Space Science
- Biology & AP Biology
- Chemistry & AP Chemistry
- Physics & AP Physics
- Computer Business Applications
- Advanced Computer Business Apps
- Computer Programming
- Introduction to ACE
- Fundamentals of Electricity 1 & 2
- Manufacturing 1 & 2
- Web Design
- Graphic Design 1 & 2
- Architectural Plans and Specs
- Construction Skills
- Construction Technology
- Fundamentals of CAD

High School Related Activities and Clubs

- Internships
- Job Shadows
- Business Professionals of America
- Robotics
- Science Club
- Video Game Club



Transportation

- ▶ FACILITY & MOBILE EQUIPMENT MAINTENANCE
- ▶ HEALTH, SAFETY & ENVIRONMENTAL MANAGEMENT
- ▶ LOGISTICS PLANNING & MANAGEMENT SERVICES
- ▶ SALES & SERVICE
- ▶ TRANSPORTATION OPERATIONS
- ▶ TRANSPORTATION SYSTEMS/INFRASTRUCTURE PLANNING, MANAGEMENT & REGULATION
- ▶ WAREHOUSING & DISTRIBUTION CENTER OPERATIONS

A career in transportation, distribution, and logistics requires certain skills and education depending on job requirements. Skills include planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water and related professional support services such as transportation infrastructure planning and management, logistic services, mobile equipment and facility maintenance.

Bachelor's Degree from Iowa Universities and Colleges	Sample Career	Salaries
Finance	Insurance Appraiser	\$60,600
Business Administration	Transportation Manager	\$83,000
Supply Chain Management	Logistics Coordinator	\$89,100
Kirkwood Associate's Degree	Sample Career	Salaries
Automotive Technology	Automotive Service Technician	\$40,600
Diesel Ag Technology	Heavy Diesel Equipment Technician	\$41,000
Diesel Truck Technology	Diesel Mechanic	\$40,000
Kirkwood Diploma	Sample Career	Salaries
Automotive Collision Repair	Auto Body Technician	\$41,100
Kirkwood Career Academies	Sample Career	Salaries
Automotive Collision	Auto Glass Installer	\$31,000
Automotive Technology	Automotive Service Attendant	\$28,700



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High School Courses

- Manufacturing 1 & 2
- Fundamentals of Electricity 1 & 2
- Digital Electronics
- Aerospace Engineering

High School Related Activities and Clubs

- Internships
- Job Shadows
- Robotics



IOWA CITY
COMMUNITY
SCHOOL DISTRICT

Child-Centered : Future-Focused