IOWA CITY COMMUNITY SCHOOL DISTRICT
All In for All Kids

Iowa City Community School District

# HIGH SCHOOL PROGRAM OF STUDIES

## 2027-28 COURSE DESCRIPTIONS

**Iowa City Community School District Non-Discrimination Statement**

*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, or 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 the Student Success Office at StudentSuccess for programming, or the Human Resources Office at HR@iowacityschools.org for employment (2255 N. Dubuque Rd, Iowa City, IA 52245, 319-688-1000). If you are unsure how to proceed or would like assistance in discussing your options, you may also contact the Ombuds at Ombuds Office or 319-688-1312.*

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# Course Policies and Procedures

## 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 the transcript.
**Day 16 to three days after Parent/Teacher conferences:** A student may withdraw from the 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 The transcript will reflect a "W" (withdrawn).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.

## Criteria for Retaking a Course

A student may request to repeat a trimester course with the approval of a teacher if it is designated as a course approved for retaking in the Program of Studies. The student may request a form from the Counseling Office and go through the approval process with their teacher and their school counselor.

## Late Enrollment and Credits:

- Students' ability to earn credit is dependent on the date of enrollment.
- In any grading period:
  - After week 6-P/F (Pass/Fail)
  - After week 9-AU (Audit-no credits awarded)
- Parents/Guardians and students will be informed of the late enrollment guidelines.

## Second Grade Options

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

## Level Changes

1. All level change requests must be made by the 15th day of each trimester or with teacher approval at midterm of the trimester or a trimester break. Exceptions 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 teacher will take into account grade-in-progress when determining the final grade for the new class.

# ART

### Exploratory Art*
In this course, students are provided with a unique opportunity to experiment and explore the visual arts using a diverse range of materials. The emphasis here lies on studio production, encompassing both 2-D and 3-D art forms. As a foundational course, it is highly recommended for all students interested in developing their artistic skills and creativity.

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

### Black & White Drawing
In this course, students will explore fundamental drawing concepts and enhance their observational skills. They will engage with a diverse range of black and white media while drawing inspiration from various sources and environments. This program is tailored to foster artistic development and creativity in participants.

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

### Drawing with Color
In this course, participants will have the chance to elevate their foundational drawing skills by exploring the dynamic realm of color. Through hands-on exercises and experimentation with diverse media such as oil pastels, conte crayons, printmaking, and colored pencils, students will cultivate a nuanced understanding of color application. By delving into this spectrum of techniques, participants will expand their artistic repertoire and gain proficiency in the vibrant intersection of drawing and color.

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

### Expressive Drawing
In this course, participants will delve into the realm of personal interpretation and expressive qualities, honing their ability to inspire images with impactful meaning. Through the

mediums of cartooning, collage, and alternative surfaces, students will explore diverse avenues of self-expression, fostering a deeper connection between their artistic vision and the visual language they create. By embracing these unconventional approaches, participants will not only expand their creative toolkit but also cultivate a unique and compelling voice in their artistic endeavors.

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

### Painting

In this course, beginners will be introduced to fundamental techniques in watercolor and acrylic painting, spanning diverse genres such as still life, figurative, abstract, personal narrative, and imaginative vision works. The curriculum places a significant emphasis on the skillful use of color, guiding students towards a nuanced understanding of its impact on visual expression. Additionally, participants are encouraged to cultivate and refine their personal artistic style, fostering a sense of individuality and creativity in their painted creations.

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

### Ceramics 1

In this course, students will engage in a comprehensive exploration of clay, delving into its characteristics and diverse applications while crafting both functional pottery and sculptural forms. The curriculum encompasses a range of construction techniques, including hands-on methods and proficiency with the potter's wheel. Participants will also have the opportunity to experiment with various surface decoration and firing techniques, adding depth to their understanding of the versatile medium of clay in artistic expression.

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

### Ceramics 2

In this course tailored for self-motivated students, the focus is on advancing and refining skills acquired in Ceramics 1. Participants have the flexibility to specialize in specific areas such as hand building, wheel throwing, or surface decoration, allowing them to tailor their artistic journey according to individual interests. The overarching goal is to guide students in the cultivation of a distinctive personal style within the realm of ceramics, fostering creative autonomy and specialization.

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

### Sculpture

In this course, students will explore a diverse range of materials and techniques such as plaster, papier-mâché, clay, found objects, cardboard, and wire, fostering a multidimensional approach to artistic creation. The curriculum places a strong emphasis on honing craftsmanship, problem-solving skills, and encouraging personal expression in the realm of sculpture. Participants will engage in a dynamic exploration of three-dimensional art, developing both technical proficiency and a unique voice in their sculptural endeavors.

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

### Metalworking & Jewelry

In this course, students will be introduced to fundamental metalsmithing and jewelry-making techniques, exploring the art of crafting wearable and small-scale functional or sculptural projects. Through the application of silver soldering and cold joining methods, participants will develop the skills necessary to create intricate jewelry pieces. Additionally, the course will delve into the "lost wax" casting process, enabling students to craft three-dimensional items like rings and pendants with a unique and personalized touch.

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

### Glass

In this course, students will acquire fundamental skills in stained glass, mosaic work, and glass fusing, with a focus on creating expressive designs and producing meticulously crafted glass projects. Emphasis is placed not only on artistic expression but also on developing proficiency in handling the intricate tools and equipment associated with these techniques. Participants are expected to demonstrate a responsible approach to working with complex tools, ensuring both safety and precision in their exploration of glass as an artistic medium.

CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Trimester

### Digital Photography

In this course, students will delve into the techniques and artistry of photography, gaining a comprehensive understanding of concepts such as shutter speed, apertures, and the principles of design to enhance their photographic skills. The curriculum covers a broad spectrum, encompassing fine art, photography, photojournalism, and studio photography, providing students with a well-rounded foundation in diverse photographic practices. Additionally, participants will be introduced to Photoshop basics for essential editing and creative exploration in the post-production phase of their photographic endeavors.

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

### Advanced Photography

In this advanced course building upon Digital Photography skills, students will focus on creating and manipulating digital images, with an emphasis on lighting techniques and the development of a comprehensive portfolio. While having access to their own digital cameras is recommended, students can utilize the school's equipment to engage in hands-on practical exercises. Emphasizing independent growth and personal responsibility, students will also be responsible for purchasing their own photo paper to produce prints, fostering a practical and self-sufficient approach to their photography practice.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Digital Photography
and permission of instructor

### Graphic Design

In this course, students will harness the power of the computer and other technologies as artistic tools to create compelling visual images. The curriculum aims to provide an extensive perspective on the application of technology in both the visual arts and the business realm, showcasing its relevance in both fine art and professional contexts. Participants will explore the intersection of creativity and technology, gaining practical insights into how digital tools can be wielded to enhance artistic expression and contribute to the broader landscape of visual arts.

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

### Printmaking

In this course, students will be introduced to essential techniques for producing multiples of images through various methods such as screen printing on fabric, linoleum and woodblock relief, solar printing (cyanotype), intaglio/etching, and monotype processes. The curriculum encompasses both digital and analog processes, offering a comprehensive exploration of traditional and contemporary methods for image replication. Participants will gain hands-on experience in diverse printmaking techniques, fostering a well-rounded understanding of the artistic possibilities inherent in the production of multiples.

GRADE LEVEL: 9-12
CATEGORY: Art
PREREQUISITE: Drawing OR Graphic Design (recommended)
LENGTH: One Trimester

### Video Production 1

In this course, students will receive an introduction to operating video cameras and editing digital video, with a concentrated focus on employing specific techniques to achieve effective communication. Instruction will cover essential aspects such as shot variety, angle utilization, voice-overs, sound production, and storyline development, equipping participants with the skills needed to convey their intended messages through visual storytelling. The curriculum aims to provide a foundational understanding of video production, emphasizing the technical and creative elements essential for effective communication in the digital realm.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: None

LENGTH: 1 Trimester

### AP Art & Design

In this year-long college-level course, students choose to focus on developing a portfolio in either Drawing, 2-D Design, or 3-D Design. The portfolios follow a structured three-section format, requiring students to demonstrate fundamental competence and a broad understanding of visual art concepts and methods. Through open-ended assignments, students explore diverse concepts, approaches, and media to fulfill the breadth portion of the portfolio, and they are encouraged to experiment with techniques and ideas to bring a personal voice to various design challenges. Students then work more independently to build a cohesive body of work for the concentration section of their AP portfolio, with the option to complete the final two trimesters of the course independently.

GRADE LEVEL: 11-12
CATEGORY: Elective
PREREQUISITE: 2 art classes or teacher approval
LENGTH: 1 Year

### Digital Illustration

This course is designed for students seeking to elevate their artistic skills and digital creativity. Building upon foundational knowledge, students will delve into complex techniques, experiment with innovative approaches, and develop a sophisticated understanding of visual storytelling. Students will refine their proficiency in industry-standard software, including Adobe Photoshop, Illustrator, and After Effects. They will develop a unique artistic voice and style, pushing the limits of digital illustration through experimentation and risk-taking. Through a variety of projects, such as character design and animation, concept art for video games, digital painting, and digital mixed media, students will gain hands-on experience and develop a strong portfolio. This course is perfect for students interested in career fields such as animation, game design, and graphic design.

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

# BUSINESS EDUCATION

## Entrepreneurship

In this course, aspiring entrepreneurs will embark on a comprehensive journey to acquire the diverse skills necessary for establishing and running their own business. Through hands-on activities encompassing self-exploration, market analysis, finance management, and an exploration of social and ethical responsibilities, students will gain a holistic understanding of small business ownership. The course features the creation of a personalized business plan, incorporating authentic Work Based Learning Projects, while weekly insights from local entrepreneurs in the corridor area enhance the curriculum. Students also have the opportunity to earn three hours of University of Iowa credit through this engaging and practical course.

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

## Future Career Prep

In this course, students embark on a journey of self-discovery and future planning, exploring their skills, aptitudes, preferences, and career options. The curriculum includes an in-depth study of various professions, teaching students the strategies necessary to achieve their career goals. The practical aspects of creating a professional resume, honing interviewing skills, and participating in a one-day job shadow experience contribute to the development of valuable job-getting skills, empowering students to navigate their future with confidence.

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

## Marketing & Sales

In this course, students delve into the art of selling themselves and their business ideas in the context of a global society, with a focus on essential sales and marketing concepts applicable to both individuals and businesses. The curriculum equips students with skills to comprehend and promote ideas on an international scale, emphasizing the psychology behind consumer decision-making. Additionally, the course systematically explores each facet of the marketing mix, including place, product, price, and promotion, providing a comprehensive understanding of effective marketing strategies.

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

### Advanced Marketing and Sales

In this course, students immerse themselves in an authentic project-based learning environment that extends beyond the classroom to connect with the community. Building on the foundational concepts, the curriculum further explores the 4 Ps of Marketing (Product, Price, Place, and Promotion), delves into market research, and navigates the intricacies of digital marketing. The course is designed to prepare students for a dynamic career in the field, emphasizing hands-on experience and practical skills development.

GRADE LEVEL: 10-12
CATEGORY: Elective
PREREQUISITE: Marketing and Sales
LENGTH: 1 Trimester

### Personal Finance

In this course, students engage with the intricate process of planning, spending, financing, and investing, focusing on the implementation of strategies to enhance financial circumstances and independence. The curriculum is tailored to explore key concepts such as budgeting, tax planning, retirement planning, estate planning, insurance, financing, and investing, offering an in-depth examination of specific strategies and actionable steps associated with each aspect. Participants will gain a comprehensive understanding of financial management, empowering them to make informed decisions for their personal financial well-being.

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

### Personal Finance

(Kirkwood CC Credit Course)
In this course, students will delve into the realm of Personal Finance, a comprehensive process encompassing the planning of spending, financing, and investment strategies aimed at enhancing financial well-being and independence. The curriculum offers an exploration of vital financial concepts, including budgeting, tax planning, retirement planning, estate planning, insurance, financing, and investing, while also equipping learners with actionable

strategies tailored to each of these areas. By the course's conclusion, participants will be well-versed in managing their finances effectively and securing their financial future.

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

### Introduction to Business

In this course, students are introduced to the business world and gain a fundamental understanding of our economic environment. The units of study cover a wide range of topics, such as business ethics, marketing, finance, entrepreneurship, and the globalization of business, providing a well-rounded perspective on the corporate landscape. Additionally, students will receive a comprehensive overview of how various business structures function within our economy, equipping them with valuable insights into different organizational models.

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

### Introduction to Business

(Kirkwood CC Credit Course)
In this course, students delve into the realms of American and global business, gaining insights into the fundamental aspects of business operations. The curriculum is designed to provide a comprehensive understanding of the economic, social, and political influences that impact the success of businesses, offering students a holistic view of the business environment. By exploring these critical facets, participants will be better equipped to comprehend the complexities of operating a business in both domestic and international contexts.

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

### AP Business with Personal Finance

AP Business with Personal Finance is a year-long course. It is designed for motivated high school students who aspire to develop a strong foundation in business principles,

entrepreneurship, and real-world decision making. Through engaging case studies, interactive projects, and hands-on simulations, students explore key topics such as marketing, finance, management, and business ethics. The course challenges learners to think strategically, analyze data, and communicate effectively—preparing them with essential skills for success in college business programs and the global marketplace.

Students will gain practical experience by collaborating on group projects, developing their own business plans, and interacting with local business leaders. AP Business not only equips students with industry-recognized knowledge but also fosters critical thinking, creativity, and leadership. This course offers a transformative learning experience and the opportunity to earn college credit through the AP exam. Also, students with qualifying scores on the exam will earn the AP Business and Personal Finance Credential (created in partnership with industry experts).

GRADE LEVEL: 10-12
CATEGORY: Elective
PREREQUISITE: Algebra 1
LENGTH: 1 Year

### Accounting

In this course, students have the opportunity to grasp the fundamentals of double-entry bookkeeping, laying the foundation for those considering a business career in college. The curriculum covers essential accounting elements, transaction analysis, journalizing, special journals, posting, financial statement creation, banking comprehension, payroll processing, and making strategic financial decisions for businesses. Through these topics, students gain practical knowledge and skills essential for navigating the intricate world of accounting and financial management.

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

### Advanced Accounting

In this course, students broaden their understanding of accounting principles, concepts, and terminology by exploring topics such as partnerships, corporations, departmentalized accounting, and automated accounting systems. The curriculum incorporates practice sets to provide students with real-life accounting experiences, allowing them to apply theoretical knowledge to practical scenarios. Through these comprehensive topics and practical exercises, students gain a deeper insight into complex accounting structures and processes.

GRADE LEVEL: 10-12
CATEGORY: Elective
PREREQUISITE: Accounting I
LENGTH: 1 Year

### Professional Pathways

In this course, seniors can participate in a capstone experience designed to distinguish them in a highly competitive landscape. They will have the opportunity to cultivate their leadership abilities, tap into their areas of expertise, and engage in practical, real-world projects. The curriculum is carefully crafted to empower seniors with career exploration, as well as the soft skills essential for success in the professional realm, including problem-solving, teamwork, effective communication, and interpersonal relations. Furthermore, the inclusion of weekly guest speakers adds value and enriches the learning experience.

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

### Fashion Technology

Fashion Technology is an innovative, hands-on course designed for students interested in the fashion industry and creative entrepreneurship. Students will explore fashion design fundamentals while learning on cutting-edge fashion technology, including digital design tools and modern production techniques. A major focus of the course is personal branding, helping students develop a unique style and professional identity.  Students will also learn the steps to launch their own fashion-related business, from concept development to marketing and sales. This Project-Based Learning course is co-taught with industry experts from the community, providing real-world experience and mentorship. Students will collaborate on live projects, gain networking opportunities, and build a professional portfolio.

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

# FAMILY & CONSUMER SCIENCE

### Introduction to FCS

This introductory course offers students an engaging overview of the diverse opportunities within Family and Consumer Sciences (FCS). In this course, students will get a glimpse of what Family and Consumer Sciences (FCS) has to offer. The course is designed around FCS pathways: Education and Training, Hospitality and Tourism, and Visual Arts through project-based learning. Students will complete this one-trimester course with a deeper understanding of FCS and its role in daily life and career decisions.

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

### Culinary Arts 1

In Culinary Arts 1, students explore the foundations of cooking through hands-on practice and real-world kitchen skills. The course emphasizes nutrition, food safety, and healthy eating habits while introducing essential culinary techniques. Units include knife skills, fruit and vegetable preparation, meal planning, and baking techniques using accurate measuring and recipe reading. Whether students are new to cooking or looking to sharpen their skills, this course offers a strong starting point for anyone interested in the culinary arts.

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

### Culinary Arts: Proteins and Meal Planning

Building on the skills from Culinary Arts 1, this course guides students in refining their culinary techniques while exploring a wide range of food categories, including eggs, dairy, poultry, meats, sauces, and soups. Each unit emphasizes not only preparation skills but also key concepts such as food safety, nutrition, meal planning, and budgeting. Through this integrated approach, students deepen their culinary expertise and expand their understanding of diverse cooking methods and ingredients.

GRADE LEVEL: 10-12
CATEGORY: Elective
PREREQUISITE: Culinary Arts 1
LENGTH: 1 Trimester

### Culinary Arts: Advanced Baking and Food Production

This advanced course builds on the skills developed in Culinary Arts 1 and 2, guiding students in refining their expertise through advanced baking, pasta making, and a variety of specialized cooking techniques. Students expand their creativity while exploring diverse culinary creations and gaining insight into career pathways within the culinary industry. The course also integrates professional preparation as students complete the eFoodHandler training with the option to earn a three-year certification, providing them with both advanced skills and industry-recognized credentials.

GRADE LEVEL: 10-12
CATEGORY: Elective
PREREQUISITE: Culinary Arts 1
LENGTH: 1 Trimester

### Relationships and Parenting

In this introductory course, students examine the foundations of parenting and child development by exploring topics such as love, relationships, and diverse family structures. The parenting unit highlights the costs of raising a child, parenting styles, responsibilities, and discipline strategies. Students also study pregnancy and fetal development, focusing on factors that contribute to a healthy pregnancy, before concluding with an overview of labor, birth, and newborn care. Additionally, this course supports students in developing a portfolio aligned with the Child Development Associate (CDA) credential, helping them document skills and knowledge for professional certification.

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

### Child Development (Birth to Age 5)

This course explores the fundamentals of child development from birth through school age, focusing on physical, social, emotional, and intellectual growth. Students learn about newborn and infant care, safety practices, and strategies for positive parenting. Designed for students interested in understanding children's growth, preparing for future parenting, or pursuing careers working with children, this course provides a comprehensive foundation in early childhood development and caregiving. Students will complete a 12-hour Child Care Essentials module in Iowa State University Extension's online program and earn an industry-recognized credential. Additionally, this course helps students develop a portfolio

aligned with the Child Development Associate (CDA) credential, supporting them in documenting skills and knowledge for professional certification.

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

### Textiles & Design

In this course, students explore the creative world of textiles and design while developing essential sewing skills, including pattern reading, fabric selection, layout techniques, and advanced sewing methods such as French seams and zippers. The curriculum includes proper use and maintenance of sewing machines, with provided materials such as thread and fabric. Highlighting career opportunities in fashion, textiles, and design, this course offers a practical foundation for students interested in pursuing careers in these dynamic, creative industries.

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

### Housing & Interior Design

This course introduces students to careers and core concepts in interior design. Students explore topics such as types of housing, the elements and principles of design, drawing rooms to scale, and the steps of the design process to create functional and aesthetically pleasing spaces. Highlighting a variety of careers in housing and design—including real estate and interior design—this course provides a solid foundation for students interested in pursuing professions within this creative field.

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

### Behavior Management

(Kirkwood CC Credit Course)
This course introduces high school students to effective behavior management strategies for use in educational settings. It covers techniques for creating positive learning environments, addressing challenging behaviors, and promoting student engagement. Through

role-playing and case studies, students will practice applying these skills in scenarios they may encounter as future educators.

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

### Exploring Teaching

(Kirkwood CC Credit Course)
In this course, students receive an introduction to the teaching profession, offering insights into the roles and responsibilities of educators across grade levels. Students will explore fundamental teaching strategies, engage in discussions about current educational issues, and participate in classroom observations. Through hands-on experiences and reflective activities, the course helps students evaluate their interest in a future teaching career. This course meets part of the requirement for the Iowa Paraeducator Generalist Certification.

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

### Foundations of Education

(Kirkwood CC Credit Course)
Examines American education from historical, philosophical, and sociological perspectives. Discusses challenges and issues in education in the context of school organization, politics, funding, curriculum, professionalism, legal issues, and effective school and teacher characteristics.

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

# HEALTH

### Health*

In this course, students acquire the knowledge and skills necessary to make informed health choices throughout their lives and establish lifelong healthy behaviors. The curriculum covers concepts related to health promotion and disease prevention, and students analyze the influence of family, peers, culture, media, and technology on health behaviors. Through the development of interpersonal communication, decision-making, goal-setting, and advocacy skills, students are empowered to enhance their health, avoid or reduce health risks, and contribute to personal, family, and community well-being across various units of instruction. **Students will receive CPR training in this class as part of their graduation requirement.**

GRADE LEVEL: 9-12
CATEGORY: Fulfills Health Requirement
PREREQUISITE: None
LENGTH: 1 Trimester

### Personal Wellness & Fitness

In this course, students are provided information about healthy lifestyles and help them assess areas that may need to change to promote optimal health, wellness, and fitness. Students will design and implement a personal wellness and fitness plan that incorporates multiple health concepts including physical fitness, nutrition, mental wellness, healthy relationships, and substance abuse prevention. Some class periods will take place in the gym to incorporate activity into an overall healthy lifestyle. **Students will receive CPR training in this class as part of their graduation requirement**.

GRADE LEVEL: 9-12
CATEGORY: Fulfills Health Requirement
PREREQUISITE: None
LENGTH: 1 Trimester

### Current & Critical Health Issues

In this course, students are provided with decision-making skills and experiences related to current and critical health issues. Students will have the opportunity to explore, investigate and advocate for a variety of contemporary health issues that impact the health and wellness of teens and young adults in the United States and around the world today. Topics may include but are not limited to disease prevention; mental wellness; substance abuse prevention; nutrition; first aid; and human growth and development. **Students will receive CPR training in this class as part of their graduation requirement.**

GRADE LEVEL: 9-12
CATEGORY: Fulfills Health Requirement
PREREQUISITE: None
LENGTH: 1 Trimester

**Exploration of Healthcare Careers**

This course provides an in-depth exploration of various healthcare careers, focusing on roles, responsibilities, and pathways within the healthcare field. Students will learn about essential skills, required education, and daily tasks of healthcare professionals through hands-on activities and guest speaker sessions. The course emphasizes connections between healthcare and education, preparing students for future opportunities in both sectors.

GRADE LEVEL: 11-12
CATEGORY: Arts & Sciences Elective
PREREQUISITE: None
LENGTH: Semester length (7.5 Cr)

# INDUSTRIAL TECHNOLOGY

### Introduction to ACE

In this course within Industrial Technology, students gain hands-on experience using both hand and power tools, delving into the traditional building trades. The curriculum not only explores practical construction techniques but also incorporates design principles relevant to modern buildings. This course serves as the starting point for students interested in pursuing paths in construction and woodworking within the field of Industrial Technology.

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

### Construction Technology

In this course, students will receive an introduction to construction systems, gaining valuable insights into various aspects of the field. Throughout the semester, they will engage in individual and/or group projects, tailored to the needs of the class, community, and school district. These projects will encompass a diverse range of topics, including job-site safety, concrete construction, framing, roofing, interior work, electrical, fine finish carpentry, and other essential subjects within the construction cluster.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Intro to ACE
LENGTH: 1 Trimester

### Construction Materials Processing

In this course, students acquire proficiency in using both hand and power tools to complete individual or team projects for the school or community. The curriculum goes beyond construction carpentry tools to include the safe utilization of fine woodworking tools, providing students with a comprehensive skill set. Throughout the course, students gain hands-on experience in design, drawing, material selection, cost estimation, and project planning, fostering an understanding of manufacturing processes and culminating in the creation of individual or team projects.

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

### Construction Materials Processing II

In this course, students build upon the foundation established in Construction Materials Processing I, honing their skills and techniques in fine woodworking. They will deepen their understanding of tool usage, both manual and powered, while gaining expertise in material utilization. Moreover, students will engage in collaborative group projects that encompass various manufacturing processes, culminating in individual or team projects that involve design, assembly, and finishing components.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Construction Materials Processing
LENGTH: 1 Trimester (may be repeated up to three times)

### Student Built House

In this course, students engage in the construction of a residence from inception to completion under the guidance of professional mentors. The course prioritizes hands-on involvement, emphasizing job site safety, trade skills, and careers in the fields of Architecture, Construction, and Engineering. Spanning three periods throughout the entire school year and involving multiple high schools simultaneously, the class ensures that students gain a comprehensive understanding of the chronological building processes, concepts of building science, and the professional careers integral to creating a structure. The course is taught offsite at a community location. Transportation will be provided.

GRADE LEVEL: 10-12
CATEGORY: CTE Elective
PREREQUISITE: Introduction to ACE and Construction Technology, or instructor approval
LENGTH: 3 Periods (1 Year)

# INFORMATION SOLUTIONS & COMPUTER SCIENCE

## Computer Applications

In this course, students focus on refining their computer skills by delving into the applications of Microsoft Office Software, including Word, Excel, PowerPoint, and Publisher. Additionally, the curriculum extends to cover other business-relevant tools such as Google Products, Canva, Flipgrid, and Weebly/Wix, providing a comprehensive exploration of various digital applications. Participants will gain proficiency in these diverse platforms, enhancing their technological toolkit for both academic and practical business applications.

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

## Cybersecurity

In this course, students will acquire the essential knowledge and skills to enter the cybersecurity workforce, covering networking fundamentals, software security, system administration, Linux, cryptography basics, and programming. Emphasizing critical thinking and real-world problem-solving, participants will engage in practical exercises to build foundational cybersecurity skills. Additionally, students will adhere to and demonstrate computer security ethics. Students can expect an engaging learning environment with simulations and authentic cybersecurity applications during class, and are expected to participate in cybersecurity competitions throughout the year.

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

## Cybersecurity 2

This is the second Cybersecurity Program course. Cybersecurity 2 is closely aligned with the CompTIA Security+ Certification, to have students earn their Security+ Certification before graduation. Students can expect more opportunities for real-world learning through labs, access to cyber ranges, industry mentors, job shadowing, and presentations by cyber experts. Students will deepen their understanding of cybersecurity through participation in national cybersecurity competitions. Prerequisite: Cybersecurity.

GRADE LEVEL: 10-12
CATEGORY: Elective
PREREQUISITE: Cybersecurity 1
LENGTH: Full Year

### AP Cybersecurity

AP Cybersecurity is a year-long high school course that provides a broad introduction to the field of cybersecurity, closely aligning with a college-level introductory course. Students learn about common threats, vulnerabilities, and how they combine to create risk. The course explores how individuals and organizations manage and mitigate risk through defense-in-depth strategies. Students investigate vulnerabilities, attacks, mitigations, and detection measures across a variety of domains, including physical spaces, computer networks, devices, and data applications. Throughout the course, students also consider the impact of cybersecurity on individuals, organizations, societies, and governments. Content and skills align with the National Initiative for Cybersecurity Education (NICE) Workforce Framework, preparing students for professional pathways in the cybersecurity field. This course and credential together prepare students for industry-recognized certifications such as CompTIA Security+, supporting their readiness for future study or entry-level positions in cybersecurity.

Grade Level: 10–12
Category: Elective
Prerequisite: None
Length: 1 Year

### Web Design

In this course, students will learn fundamental business principles applied to the creation of well-designed web pages, with an introductory focus on hypertext markup and cascading style sheets. The curriculum also includes hands-on experience using free website builders like Wix and Weebly, providing students with practical skills for building and designing web content. Through these lessons, participants will develop a foundational understanding of web design principles and gain proficiency in utilizing key tools for creating effective online platforms.

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

### Keyboarding

In this introductory course, designed for students without prior typing experience, participants focus on learning the fundamentals of the alphabet and numeric keyboard. The curriculum emphasizes drilling for speed and accuracy while developing proper typing techniques. Students who have completed junior high keyboarding are directed to enroll in Computer Applications, with enrollment in Keyboarding requiring permission from the instructor.

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

### Information Computing

(Kirkwood CC Credit Course)
This course presents the basic concepts of information systems and computer literacy. The course incorporates theory as well as hands-on practice, which includes working with Microsoft Office spreadsheets, Word Processing, Presentations, and Database Management Systems (DBMS). The course is designed to prepare students for Microsoft Office Specialist certifications, highly regarded industry-recognized credentials that demonstrate proficiency in a specific Microsoft Office application. Successful completion of this course will equip students with valuable skills and potential certifications that are highly sought after by employers in today's technology-driven job market.

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

### Introduction to Computer Science

In this course, students delve into five key areas: Computer Systems, Networks and Internet, Data and Analysis, Algorithms and Programming, and the Impacts of Computing. The curriculum empowers students to develop technology-based solutions, mastering the creation of algorithms to address real-world problems. Through the course, students also acquire the skill of decomposing problems, breaking them down into a precise sequence of instructions, making it an ideal starting point for those pursuing advanced computer science studies or seeking a general introduction to the field.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: None

LENGTH: 1 Trimester

### Computer Science Principles

(Kirkwood CC Credit Course)
Computer Science Principles (CSP) is a PLTW Dual credit Kirkwood Academy course designed to implement the College Board's AP Computer Science Principles framework. AI is integral to the world of computer science. Software engineering remains one of the largest professional job categories, and employers now expect software engineers to be fluent in AI. What sets candidates apart is a deeper understanding of AI for designing, debugging, and evaluating code, and the ability to determine when AI is wrong. The redesigned course develops these skills, empowering students to build with AI, not just learn about it. The course teaches students how AI systems work and how to write and evaluate code with and without AI tools. Students design and test programs to meet real users' needs, learning when and how to use AI tools along the way. Students also complete an AI Create Project, in which they build an AI application. The AP Exam includes free-response questions about the project, so students who earn a qualifying score for college credit have demonstrated their ability to design, build, and understand an AI-powered application.

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

### AP Computer Science A

In this course, students are equipped with the skills needed for success in more advanced college-level computer science courses, ensuring competitiveness in a technologically advanced and globally competitive marketplace. Comparable to a first-year, semester-long university course, students will utilize the Java language to create applications addressing both mathematical and real-world problems. Enrollment in this course is recommended for students with prior programming experience or those who are highly motivated, as it thoroughly prepares them for 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

### AP Networking

AP Networking trains students in the field and aligns closely with standard first-year collegiate introductory networking courses. Students blend learning essential networking concepts with relevant, hands-on problem-solving activities to maximize their understanding of network hardware, logical and physical configuration, the use of protocols to enable reliable and accurate transmission of data between hosts, and relevant security practices that protect the transmission of data within and between computer networks. Students learn the value of configuring devices and networks with a “security-first” mindset to mitigate common vulnerabilities. Students work collaboratively to connect, configure, troubleshoot, and secure devices and networks while building critical thinking and communication skills.

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

# LANGUAGE ARTS

### English 9*

In this course, students are introduced to high school-level study of language arts, encompassing reading, writing, listening, speaking, and media literacy. The course encourages both individual and collaborative work in small and large groups to enhance skills and acquire knowledge in these areas. Throughout each trimester, emphasis is placed on usage, covering grammar and vocabulary, while students engage in a recursive writing process, composing narrative, informative, and argumentative texts.

GRADE LEVEL: 9
CATEGORY: Fulfills English 9 requirement
PREREQUISITE: None
LENGTH: 1 Year

### English 9 Honors

This honors-level course sets higher performance standards, expecting students to achieve elevated levels of proficiency. English 9H serves as an honors credit option for students concurrently enrolled in English 9, covering the major curriculum of the regular English 9 course. Throughout each trimester, students in English 9H engage in extension activities that complement their coursework, providing additional challenges and opportunities for academic growth.

GRADE LEVEL: 9
CATEGORY: Fulfills English 9 requirement
PREREQUISITE: None
LENGTH: 1 Year

### English 10*

In this course, students delve into a comprehensive study of language arts, encompassing reading, writing, listening, speaking, and media literacy. The course covers common units of study, including short narratives, novels, memoirs, research, poetry, and epic/drama, guiding students to compose 2-3 multi-draft papers in various modes such as expository, narrative, persuasive, and analytical. Additionally, tasks include the delivery of speeches as 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

In this course, students with a strong foundation in language arts, cover common units of study such as short narratives, science fiction, research, poetry, and epic/drama. Students engage with a wider range of works at an accelerated pace, actively participating in higher-level, whole-class discussions. The course challenges students to compose 4-6 multi-draft papers in various modes, including expository, narrative, persuasive, and analytical, with some tasks delivered as speeches, and students work with a complex understanding of literary terms, structures, and patterns.

GRADE LEVEL: 10
CATEGORY: Fulfills English 10 requirement
PREREQUISITE: English 9.
LENGTH: 1 Year

### United States Literature*

In this course, students delve into the themes and movements of both historical and contemporary American literature. Common units of study include American novels, such as *The Great Gatsby*, and components related to college and career preparation. Students actively engage in writing across expository, persuasive, and analytical modes, with additional emphasis on close reading and group discussions to enhance their understanding of American literary works.

GRADE LEVEL: 11-12
CATEGORY: Fulfills English 11 or English 12 requirement
PREREQUISITE: English 9 and English 10
LENGTH: 1 Year

### United States Literature Honors

In this course, students explore American literature and culture spanning from the seventeenth century to the present day. Similar to the U.S. Literature course, common units of study include American novels (e.g., "The Great Gatsby"), modern drama, and poetry. However, students in U.S. Literature Honors read a broader range of works at an accelerated pace, actively engage in higher-level, whole-class discussions, and produce more extensive writing across various modes, with a particular emphasis on comprehending literary movements, recurring themes and motifs, and critical lenses.

GRADE LEVEL: 11-12
CATEGORY: Fulfills English 11 or English 12 requirement
PREREQUISITE: English 9 and 10.

LENGTH: 1 Year

### U.S. Humanities*

In this course, students will work to understand the evolution and influences on American culture through literature, film, television, drama, music, and popular culture. The course emphasizes in-depth analysis to foster a foundational and clear understanding of how these elements have shaped the broader cultural landscape. Students engage in various learning methods, including reading relevant literature, participating in class discussions, actively viewing visual media, and writing analysis papers covering topics such as American values, politics, youth culture, race, gender, and cultural trends.

GRADE LEVEL: 11-12
CATEGORY: Fulfills English 11 or English 12 requirement
PREREQUISITE: None
LENGTH: 1 Year

### African American Literature*

This course explores the rich and diverse literary traditions of African Americans, examining how writers and artists have expressed identity, challenged injustice, and shaped American culture. Students study literature in its historical context, from African oral traditions and slavery through the Harlem Renaissance and into contemporary America. Works include folktales, spirituals and other music, poetry, autobiographies, speeches, essays, short stories, novels, and selected films. Through close reading, discussion, and personal and analytical writing, students explore themes of race, identity, freedom, power, and equality while strengthening their critical thinking and communication skills.

GRADE LEVEL: 11-12
CATEGORY: Fulfills English 11 or English 12 requirement
PREREQUISITE: English 9 and English 10
LENGTH: 1 Year

### World Literature*

In this course, students study the literature, culture, and history of many of the world's 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 narrative, argumentative, and analytical modes. 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

### AP English Literature & Composition

In this course, students engage in critical reading and discussion of college-level literature while focusing on discussion and writing literary analysis. The curriculum covers a variety of units, including novels, Shakespearean drama, Greek tragedy, short stories, poetry, essays, and philosophy. The course culminates with the opportunity for students to take the AP examination in May, and successful scores may lead to credit recognition by many colleges and universities.

GRADE LEVEL: 11 - 12
CATEGORY: Fulfills English 11-12 requirement
PREREQUISITE: None
LENGTH: 1 Year

### AP English Language & Composition

In this course, students analyze and evaluate complex non-fiction texts and arguments and 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 11-12 requirement
PREREQUISITE: None
LENGTH: 1 Year

### Composition I

(Kirkwood CC Credit Course)
In this course, students work on developing expository writing skills with a specific emphasis on organizing ideas, incorporating supporting details, refining style, expanding vocabulary, and honing library research skills. The focus is on enhancing the ability to effectively communicate through written expression, covering aspects such as structure, evidence, and the utilization of research resources. The course aims to provide students with a foundation in expository writing that can be applied across various academic contexts.

GRADE LEVEL: 12
CATEGORY: Fulfills English 12 for 1.5 Trimesters

PREREQUISITE: English 10 ; KCC PREREQUISITE required 2.8 GPA
LENGTH: 1 Trimester

### Composition II

(Kirkwood CC Credit Course)
In this course, students learn the precise and responsible use of research tools, emphasizing critical analysis of reading materials and consideration of the audience and self when communicating content. The focus is on developing the ability to construct effective and ethical arguments through written communication, fostering skills in research, analysis, and persuasive writing. The course aims to enhance students' proficiency in crafting well-supported and thoughtfully constructed written arguments.

GRADE LEVEL: 12
CATEGORY: Fulfills English 12 for 1.5 Trimesters
PREREQUISITE: Composition I
LENGTH: 1 Trimester

### Foundations of Journalism

In this course, students engage in the comprehensive study of journalistic practices, encompassing article writing for print and online platforms, page design, photography, and gaining insights into media law. The curriculum emphasizes the development of critical thinking skills as students analyze and discuss daily news, fostering a deeper understanding of contemporary media. As a prerequisite for participation in the yearbook, broadcast, and news lab, students have the opportunity to contribute articles, artwork, photographs, and designs for publication in various school media outlets.

GRADE LEVEL: 9-11, seniors require instructor approval
CATEGORY: Fulfills ICCSD English 12 requirement
PREREQUISITE: None
LENGTH: 1 Year

### News Lab

In this course, students actively engage in the production of the school newspaper and/or website, with a primary focus on fostering professional journalism, enhancing journalistic skills, and empowering students to contribute to a student-run publication. The curriculum encompasses various aspects of journalism, including article writing, conducting interviews, page design, photography, advertisement design, and an in-depth exploration of media law. To meet production demands, students may be involved in some activities outside regular school hours.

GRADE LEVEL: 10-12
CATEGORY: Elective
PREREQUISITE: Foundations of Journalism and instructor approval
LENGTH: 1 Year

### Yearbook Lab

In this course, 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. Some production work is done outside regular school hours.

GRADE LEVEL: 10-12
CATEGORY: Elective
PREREQUISITE: Foundations of Journalism and instructor approval
LENGTH: 1 Year

### Broadcast Lab

In this course, students focus on producing video, audio, and/or web journalism, aiming to foster professional journalism skills and encourage the creation of student-run broadcasts or websites. The course involves tasks such as writing copy, conducting interviews, recording and editing videos or podcasts, staying informed on current events, and developing an understanding of media law. Students engage in a dynamic learning environment that emphasizes practical skills in journalism.

GRADE LEVEL: 10-12
CATEGORY: Elective
PREREQUISITE: Foundations of Journalism and instructor approval
LENGTH: 1 Year

### Bible as Literature

In this course, students explore the Hebrew and Protestant Bibles from a literary and historical (non-religious) standpoint. The course aims for students to recognize the Bible as a significant literary work, understand its impact on the cultural history of Western society, become acquainted with key stories, characters, and symbols in the Judeo-Christian tradition, and identify Biblical allusions in various forms of art and expression. The instructional approach includes a mix of lecture, discussion, tests, reading assignments, and writing exercises.

GRADE LEVEL: 11-12
CATEGORY: Fulfills English 12 requirement for 1 trimester of Literature
PREREQUISITE: None
LENGTH: 1 Trimester

### Contemporary Literature*

In this course, students delve into diverse topics and interests within specific book categories. Participants choose their books, reading both in and outside of class, and are assessed based on the quantity of books read, the depth of written responses, and the quality of oral conferences with the instructor. The course provides a flexible and personalized approach to literary exploration.

GRADE LEVEL: 11-12
CATEGORY: Fulfills English 12 requirement for 1 trimester of Literature
PREREQUISITE: None
LENGTH: 1 Trimester

### Creative Writing*

In this course, students delve into various creative genres such as short stories, poetry, and memoir, with an option for students to explore a genre of their choice, like one-act plays or rap. Drafts undergo critique in a workshop setting, and mandatory revision is essential for success. Emphasizing creative writing tools and literary elements, the course culminates in a final portfolio or potential publication of students' work.

GRADE LEVEL: 11-12
CATEGORY: Fulfills English 12 requirement for 1 trimester of Writing
PREREQUISITE: None
LENGTH: 1 Trimester

### Essay Writing*

In this course, students practice the writing process and workshopping 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 & Usage**
In this course, students are exposed to essential grammatical terminology, providing them with the tools to analyze and discuss language and writing effectively. The curriculum encompasses a wide array of topics, such as parts of speech, sentence patterns, fragments and run-ons, phrases and clauses, parallel construction, consistent usage of tense, person, verbs, and pronouns, as well as punctuation and spelling. Active participation in class activities, accurate note-taking during lectures, completion of assignments, proficiency in quizzes, enhanced proofreading skills, and heightened awareness of oral and written usage problems are all expected outcomes for students undertaking this comprehensive language and writing course.

GRADE LEVEL: 10-12
CATEGORY: Fulfills English 12 requirement for 1 trimester
PREREQUISITE: None
LENGTH: 1 Trimester

**Public Speaking**
In this course, both reserved individuals and adept speakers are guided through comprehensive training and practical exercises in crafting and delivering public speeches. The curriculum entails studying renowned public speeches, fostering skills in speechwriting and delivery, and addressing aspects such as stage fright, research proficiency, organizational abilities, and critical evaluation of peer performances. Students are encouraged to explore the diverse purposes of public speaking, fostering an inclusive approach to effective communication.

GRADE LEVEL: 9-12
CATEGORY: Fulfills English 12 requirement for 1 trimester
PREREQUISITE: None
LENGTH: 1 Trimester

**Public Speaking**
(Kirkwood CC Credit Course)
Studies the fundamentals of public speaking, emphasizing the process of speech preparation and delivery

GRADE LEVEL: 9-12
CATEGORY: Fulfills English 12 requirement for 1.5 trimesters

PREREQUISITE: Must meet Senior Year Plus eligibility requirements
LENGTH: 1 Trimester

### Media Literacy & Communications*

In this course, students engage in diverse group activities like panel discussions, oral interpretation, and media presentations to enhance both listening and oral communication skills, fostering improvement through collaborative support. Regardless of post-high school plans, the course is recommended for all students and is widely accepted by colleges and universities. Notably, the NCAA Eligibility Center does not recognize this class as meeting eligibility criteria, making it an exception for student-athletes seeking NCAA approval.

GRADE LEVEL: 11-12
CATEGORY: Fulfills English 12 requirement for 1 trimester
PREREQUISITE: None
LENGTH: 1 Trimester

### Acting

In this course students study improvisation, classic and contemporary drama, monologues, duet and small group scene work, and play analysis. This class offers an opportunity for beginner students to improve their oral communication and public speaking skills, and experienced actors to practice audition pieces and build a diverse acting repertoire. By exploring performance art, students will cultivate an appreciation for theatre through reading, writing, analyzing, and performing various literary works.

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

### Introduction to Theatre

In this course, students will explore fundamental aspects of theater, encompassing acting, improvisation, theatre history, play analysis, and basic technical theatre concepts. Designed to accommodate both experienced theater enthusiasts and those entirely new to the subject, the course provides a diverse and engaging introduction to the world of theater for students seeking a different and enjoyable experience. Participants can expect to delve into the essentials of acting and various theatrical elements in a welcoming and inclusive environment. It's important to note that while some colleges may accept this course as a Language Arts credit, it does not meet NCAA requirements and may not fulfill entrance

requirements for certain universities, potentially necessitating an additional Language Arts elective for college admission compliance.

GRADE LEVEL: 9-12
CATEGORY: Fulfills English 12 requirement for 1 trimester
PREREQUISITE: None
LENGTH: 1 Trimester

### Technical Theatre

In this course, students delve into the behind-the-scenes aspects of theater production, learning building and painting techniques, audio recording and editing, light cue programing, and scenery construction. Students will interpret dramatic literature focusing on communication through non-verbal means, exploring how literary concepts such as symbolism, metaphor, and imagery are expressed physically in media such as costuming, lighting, and set design. This involves reading a play, creating multiple interpretations, and bringing those interpretations to life through set design and construction, and sound, lighting, costume, and props design. Students learn to develop and revise interpretations through collaboration as actors perform, and technicians modify the technical elements of theatre.

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

# MATHEMATICS

*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 or AP Pre-Calculus and Calculus.*

### Algebra 1*

In this course, students build a foundational understanding of various functions, including linear, quadratic, and exponential functions. The curriculum emphasizes conceptual thinking, graphical visualization, symbolic and numerical modeling, with a focus on applying problem-solving skills in real-world contexts. By developing these fundamental algebraic skills, students are well-prepared for the subsequent courses of Geometry and Algebra 2.

GRADE LEVEL: 9-12
CATEGORY: Fulfills 1 year of Math requirement
PREREQUISITE: Pre-Algebra
LENGTH: 1 Year

### Thinking Mathematically

In this course, students receive support in navigating their high school math experience with a focus on the importance of mindset for success in mathematics. The course is offered concurrently with Algebra I, Geometry, or Algebra II, and incorporates learning activities centered around foundational mathematics concepts. Through addressing mindset and reinforcing foundational skills, students are provided with additional resources to enhance their overall math proficiency.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Trimester, course may be repeated for credit

### Geometry*

In this course, students delve into the study of properties of figures in space, covering geometric constructions, right triangle trigonometry, transformations, inductive and deductive thinking skills applicable to problem-solving, and real-world applications. The curriculum also emphasizes proof writing, requiring students to prove properties of geometric figures such as polygons and circles. Through this comprehensive approach, students gain a solid understanding of geometric principles and their practical implications.

GRADE LEVEL: 9-12

CATEGORY: Fulfills 1 year of Math requirement
PREREQUISITE: Algebra 1
LENGTH: 1 Year

### Geometry in Construction

In this course, students not only learn geometry principles but also apply them in the context of residential construction, fostering connections with various construction-related careers such as engineering, architecture, and construction management. The curriculum covers tool and worksite safety, problem-solving tool use, and drawing interpretation, providing practical skills alongside theoretical knowledge. This consecutive two-period commitment not only earns students a math credit but also qualifies as a Career and Technical Education (CTE) elective credit, offering a comprehensive exploration of geometry within the construction industry.

GRADE LEVEL: 9-12
CATEGORY: Math and CTE
PREREQUISITE: Algebra I
LENGTH: 1 Year

### Geometry Honors

In this course tailored for students in the accelerated mathematics program, topics are approached with heightened rigor and at an accelerated pace. The curriculum places a strong emphasis on the development of formal and rigorous proof writing, with a focus on deductive reasoning. Students engage with advanced concepts, including logic, inductive reasoning, basic trigonometry, and three-dimensional geometry, providing a depth of understanding to better prepare them for the challenges of Algebra 2 Honors.

GRADE LEVEL: 9-12
CATEGORY: Fulfills 1 year of Math requirement
PREREQUISITE: Algebra 1
LENGTH: 1 Year

### Algebra 2*

In this course, students build upon the foundational concepts learned in Algebra 1 and Geometry, advancing their algebraic skills by working with expressions that define functions and using them to model real-world situations and solve equations. The curriculum covers advanced topics, including solving quadratic equations with both real and complex solutions, as well as solving exponential equations using logarithms and working with various polynomial equations. Mastering the skills taught in Algebra 2 will prepare students for the challenges of Pre-Calculus.

GRADE LEVEL: 9-12
CATEGORY: Fulfills 1 year of Math requirement
PREREQUISITE: Algebra 1 and Geometry
LENGTH: 1 Year

### Modern Algebra 2

In this course, students build upon the foundational concepts learned in Algebra 1 and Geometry. The curriculum emphasizes the development of advanced algebra skills, focusing on working with expressions defining functions and their application in modeling real-world situations and solving equations with the use of graphing technology and computer applications. The curriculum covers advanced topics, including solving quadratic equations with both real and complex solutions, as well as solving exponential equations using logarithms.

GRADE LEVEL: 9-12
CATEGORY: Fulfills 1 year of Math requirement
PREREQUISITE: Algebra 1 and Geometry
LENGTH: 1 Year

### Algebra 2 Honors

In this course, students engage with topics at a rigorous pace as part of the advanced mathematics program. The curriculum covers a comprehensive review of first-year algebra and delves into the study of polynomials, rational expressions, equations, inequalities, logarithms, and basic trigonometry with a focus on enhancing problem-solving skills. A scientific or graphing calculator is required for specific topics, and successful completion of this course prepares students for the challenges of AP Pre-Calculus.

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

In this course, tailored for seniors with a background in Algebra 1, Geometry, and Algebra 2, students delve into advanced mathematical concepts such as discrete math, a survey of algebra 2 topics, probability, and statistics. The curriculum is designed to enhance math proficiency and prepare students for college math placement exams, emphasizing a comprehensive review of algebra skills in the second trimester. This course serves as valuable

support for students as they conclude high school and transition to college, offering an extra boost to their mathematical knowledge.

GRADE LEVEL: 12
CATEGORY: Fulfills 1 year of Math requirement
PREREQUISITE: Geometry and Algebra 2
LENGTH: 1 Year

### Pre-Calculus

In this course, designed for students pursuing careers in the Physical Sciences, Physics, Engineering, and Mathematics, a diverse array of topics are covered, including analytic geometry, inequalities, polynomials, rational functions, trigonometric functions and identities, vectors, complex numbers, logarithmic and exponential functions, and sequences. Strong problem-solving skills are emphasized throughout the curriculum, and reading with comprehension is crucial for mastering the material. Successful completion of this course serves as preparation for the study of Calculus, laying a solid foundation for advanced mathematical concepts.

GRADE LEVEL: 9-12
CATEGORY: Fulfills 1 year of Math requirement
PREREQUISITE: Algebra 2 (with teacher recommendation) or Algebra 2 Honors
LENGTH: 1 Year

### AP Precalculus

In this course, students engage in the exploration of real-world situations through the lens of mathematical tools, developing a profound understanding of modeling and various function types such as polynomial, rational, exponential, logarithmic, trigonometric, polar, as well as functions involving parameters and vectors. The curriculum not only prepares students for other advanced mathematics and science courses but also lays a foundational understanding crucial for careers in mathematics, physics, biology, health science, social science, and data science. Successful completion of this course serves as a robust preparation for the study of calculus as well as prepares students for the AP Pre-Calculus examination in May, and a passing score may grant them college credit for mathematics. Visit http://apcentral.collegeboard.com for additional information.

GRADE LEVEL: 9-12
CATEGORY: Fulfills 1 year of Math requirement
PREREQUISITE: Algebra 2 (*with recommendation of instructor*) or Algebra 2 Honors
LENGTH: 1 Year

### AP Calculus AB

In this course, students cover all calculus topics outlined by the College Board, equivalent to a first semester college-level calculus course. Emphasizing functions, differentiation and its applications, and integration and its applications, the curriculum requires the use of graphing calculators. Successful completion of this course prepares students for the AP Calculus AB examination in May, and a passing score may grant them college credit for calculus.Visit http://apcentral.collegeboard.com for additional information.

GRADE LEVEL: 9-12
CATEGORY: Fulfills 1 year of Math requirement
PREREQUISITE: Precalculus (with recommendation of instructor) or AP Pre-Calculus.
LENGTH: 1 Year

### AP Calculus BC

In this course, students engage in a rigorous, college-level curriculum covering all calculus topics specified by the AP Program of the College Board, amounting to the equivalent of two semesters of college-level calculus. Successful completion of the course, culminating in the AP Calculus BC examination, grants students the opportunity to earn college credit for their calculus studies. The comprehensive areas of study encompass not only the material in AP Calculus AB but also delve into advanced topics such as polynomial approximations, series, vectors, parametric and polar expressions, and more extensive techniques of integration, with the mandatory use of graphing calculators. Visit http://apcentral.collegeboard.com for additional information.

GRADE LEVEL: 9-12
CATEGORY: Fulfills 1 year of Math requirement
PREREQUISITE: Precalculus (with recommendation of instructor) or AP Pre-Calculus
LENGTH: 1 Year

### AP Statistics

In this course, students engage in a challenging, college-level curriculum covering all statistics topics outlined by the AP Program of the College Board. The course is structured around four overarching conceptual themes established by the College Board, namely exploring data, sampling and experimentation, anticipating patterns, and statistical inference. With the use of either a physical graphing calculator or Desmos graphing calculator, students are equipped to tackle the AP Statistics examination in May, as the course thoroughly prepares them for the assessment of their statistical knowledge and skills.

GRADE LEVEL: 9-12
CATEGORY: Fulfills 1 year of Math requirement

PREREQUISITE: Algebra 2 or Teacher Recommendation
LENGTH: 1 Year

**AMPS – The Art of Mathematical Problem Solving**

In this course, students delve into mathematical topics that go beyond the standard college preparatory curriculum, focusing on formal proof techniques, problem-solving skills, the art of mathematical communication, and collaborative problem-solving approaches. Students are encouraged to learn through challenges and competition preparation, and with instructor permission, they can enroll for a trimester or pursue independent study. This flexible course, designed to be taken multiple times with subsequent topics, equips students with strategies for approaching, analyzing, and solving advanced mathematical problems.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Geometry Honors
LENGTH: 1 Year

# MUSIC

### Bass Choir

In this course, Little Hawk Singers (City), Bass Choir (West), or Bass Clef Choir (Liberty) students participate in a non-auditioned choir specifically designed for all bass clef voices, and it includes all freshmen bass clef voices. Throughout the academic year, students in this choir will participate in four or five concerts, with a primary emphasis on developing a healthy choral tone, comprehending music fundamentals, and performing enjoyable and challenging bass clef choral pieces. The course aims to foster musical growth and a sense of camaraderie among students with a shared passion for bass clef vocal performance.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: *Year-long enrollment is expected to maintain the continuity and high-performance level of this choir*

### Treble Choir

In this course, Treble Choir (City/West) or Treble Clef Choir (Liberty) students participate in a non-auditioned choir specifically tailored for all treble clef voices, with an assignment of all freshmen treble voices to this ensemble. Engaging in four or five concerts annually, the class centers around cultivating a healthy choral tone, grasping music fundamentals, and performing enjoyable and challenging treble clef choral pieces. The course is designed to foster musical development and camaraderie among students with a shared interest in treble clef vocal performance.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: *Year-long enrollment is expected to maintain the continuity and high-performance level of this choir*

### Advanced Treble Choir

In this course, the Advanced Treble Choir at City, Virtuosa at West, and Bella Voce at Liberty form auditioned choirs of talented treble singers in grades 10-12, showcasing exceptional vocal tone and a solid grasp of musical fundamentals. The choir is selectively offered based on the program's enrollment needs, and participants can anticipate performing four or five concerts annually, featuring advanced choral literature. Additionally, students are encouraged to audition for All-State quartets and participate in the spring Solo/Small Ensemble Festival,

fostering a dynamic and enriching musical experience.

GRADE LEVEL: 10-12
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: Year-long enrollment is expected to maintain the continuity and high-performance level of this choir. Admission into the ensemble is by consent of the director (audition). Repeated enrollment at the discretion of the director.

### Advanced Mixed Choir

In this course, Concert Choir assembles a select group of singers in grades 10-12, chosen for their exceptional vocal tone and foundational understanding of musical fundamentals, with availability based on program enrollment. The choir is geared towards delivering four or five annual concerts featuring advanced choral literature, while students are actively prompted to audition for coveted spots in All-State quartets and participate in the spring Solo/Small Ensemble Festival, fostering a comprehensive and enriching musical journey.

GRADE LEVEL: 10-12
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. Admission into the ensemble is by consent of the director (audition). Repeated enrollment at the discretion of the director.

### Select Mixed Choir

In this course, known as the Concert Choir at City, West Singers at West, and Liberty Singers at Liberty, a highly selective group of singers in grades 11-12 with exceptional vocal tone and advanced musical proficiency form an elite ensemble. Throughout the year, these talented students engage in four or five annual concerts, sometimes participating in additional performances, mastering challenging choral repertoire. Moreover, participants are motivated to audition for coveted positions in an All-State quartet and showcase their talents in the spring Solo/Small Ensemble Festival, fostering a platform for individual excellence within the choir.

GRADE LEVEL: 10-12
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. Admission into the ensemble is by consent of the director (audition). Repeated enrollment at the discretion of the director.

### 9th Grade Marching Band

In this course, students begin the first trimester with collaborative rehearsals in marching, learning fundamental marching band techniques, and participating in performances at home football games and other marching events. Simultaneously, the band transforms into a concert ensemble during this trimester, with all students subsequently gaining the chance to audition for placement in ability-based concert bands for the second and third trimesters (Concert Band, Varsity Band, Symphonic Band, Wind Ensemble). These concert ensembles concentrate on analyzing and performing standard and advanced high school band music, culminating in the preparation and presentation of several formal concerts, with attendance at all performances being a mandatory and graded component of the curriculum.

GRADE LEVEL: 9
CATEGORY: Elective
PREREQUISITE: Previous study or consent of director
LENGTH: 1 Year

### 10th-12th Grade Marching Band

In this course, students will start their journey during the first trimester by rehearsing together as a unified marching band, where they will hone their fundamental marching band techniques and showcase their skills at various home football games and other marching events. As the course progresses, all students within the band will be given the chance to audition for placement in one of the ability-based concert bands for the second and third trimesters (Concert Band, Varsity Band, Symphonic Band, Wind Ensemble). These concert ensembles will place emphasis on analyzing and performing standard and advanced high school band music, preparing for multiple formal concerts, and it's important to note that attendance at all performances is not only mandatory but also a graded component of the class curriculum.

GRADE LEVEL: 10-12
CATEGORY: Elective
PREREQUISITE: Previous study or consent of the *the* director
LENGTH: 1 Year

### 9th-12th Grade Marching Band

In this course, students will begin the first trimester by practicing together as a unified marching band, concentrating on fundamental marching techniques and participation in local events such as home football games. Following this introductory phase, all students will be eligible to audition for placement in ability-based concert bands during the second and third trimesters (Concert Band, Symphonic Band, Wind Symphony, Wind Ensemble at City and Concert Band, Symphonic Band, Wind Ensemble at Liberty). These concert ensembles will emphasize the interpretation and execution of standard and advanced high school band compositions and the preparation of various formal concerts, with attendance at all performances being a mandatory and graded component of the class curriculum.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Previous study or consent of the director
LENGTH: 1 Year

### 9th-12th Grade Concert Band

In this course, students will begin the first trimester by practicing together as a unified concert band, focusing on the interpretation and execution of standard high school band compositions, culminating in a fall concert. Following this portion of the trimester, all students will be eligible to audition for placement in ability-based concert bands during the second and third trimesters ***(Concert Band, Symphonic Band, Wind Symphony, Wind Ensemble)***. These concert ensembles will build on the instruction offered during the first trimester, with a continued emphasis on the interpretation and execution of standard and advanced high school band compositions throughout the school year. Each band will prepare for multiple formal concerts, with attendance at all performances being a mandatory and graded component of the class curriculum.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Previous study or consent of the director
LENGTH: 1 Year

### Concert Orchestra

In this course, emphasis is placed on developing fundamental orchestral techniques, including precise pitch control, dynamic variation, and rhythmic consistency, as students prepare music for numerous annual concerts. To successfully complete the course, students must actively engage in all scheduled performances, commit to registering for all three trimesters, and dedicate themselves to enhancing their skills through individual practice and lessons. The ultimate objective for students in Concert Orchestra is to achieve membership in the prestigious Philharmonic Orchestra.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Participation in Middle School Orchestra or by audition with the director
LENGTH: 1 year

### Philharmonic Orchestra

In this course, students are offered an intermediate-level exploration of orchestral techniques, emphasizing the advancement of bow techniques. Throughout the program, students will engage with a diverse repertoire spanning various composers and are expected to actively participate in all scheduled performances. Over the three trimesters, students will not only refine their skills through individual practice and lessons but also strive towards achieving membership in the Symphony Orchestra as their ultimate goal.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Participation in Middle School and audition with the director
LENGTH: 1 year

### Symphony Orchestra

In this course, students are offered a rigorous curriculum featuring diverse musical pieces across different eras and styles. Expectations include a high standard of technical prowess and musical proficiency, offering students opportunities to showcase their skills through orchestral pieces, solo performances, and ensemble works. To excel, students must engage in all scheduled performances, commit to registering for all three trimesters, and continuously enhance their abilities through individual practice sessions and lessons.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Consent of Director (audition)
LENGTH: 1 Trimester

### AP Music Theory

In this course, students will engage in a curriculum designed to match the content and achievement standards of a typical first-year college Music Theory course. The course encompasses the study of melody, harmony, texture, rhythm, and form, with class time dedicated to the analysis of notated music, the development of aural skills, sight singing, and composition. By the course's end, students will have the ability to recognize and describe fundamental elements and processes of music, encompassing various instrumental and vocal styles from the common practice period and an introduction to 20th-century

compositional techniques. Ultimately, students will leave the course fully prepared to excel in the AP Music Theory exam.

GRADE LEVEL: 11-12
CATEGORY: Elective
PREREQUISITE: Permission of instructor
LENGTH: 1 Year

### Hear My Voice

In this course designed specifically for students seeking to nurture their personal expression through music, the curriculum encourages students to delve into hip-hop, beat-making, songwriting, and various other popular music forms that have traditionally thrived outside the academic environment. The class is student-centered, with the teacher assuming a role akin to a musical coach, allowing individual creativity to flourish. Furthermore, the course connects students with performing artists from the community, providing insights into contemporary music industry careers. Ultimately, "Hear My Voice" concludes with students presenting personal projects and performances at the trimester's end.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Trimester, may be repeated with permission of instructor

### Community Music

The primary objective of the class is to promote student well-being and enhance their social-emotional health through the power of community music engagement. Using musical self-expression is a joyful and accessible form of communication, participants will explore their voices, play instruments, move to music, and collaborate by creating ensembles. If you're considering a career in education, music education, social work, or community development, this course could be an ideal choice for you to develop valuable skills and experiences.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 trimester, may be repeated with permission of instructor

### Digital Music Production

In this course, students with no formal music training can enroll and explore the fundamentals of musical scales, chords, and rhythm needed to create music on a Digital Audio Workstation, such as Logic Pro X. They will also gain essential skills in recording sound

with microphones and inputting musical elements through MIDI keyboards and drum pads. Additionally, this course serves as a prerequisite for those who lack prior musical experience and wish to pursue Electronic Music Production, offering the chance to progress into advanced music production courses in the second and third trimesters.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 trimester, may be repeated with permission of instructor

### Advanced Digital Music Production (Digital Music Production II)

In this course, students who have successfully completed "Introduction to Music Production" are encouraged to further their knowledge and skills in music creation using Digital Audio Workstations, primarily Logic Pro X. They will delve deeper into concepts such as automation, compression, bussing, and advanced mixing techniques, building upon their previous learning. Additionally, students will explore MIDI notation to expand their understanding of triads, chordal structures, and various scales, enhancing the complexity and creativity of their musical projects.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Digital Music Production
LENGTH: 1 Trimester, may be repeated with permission of instructor

### Open Lab for Digital Music Production (Digital Music Production III)

In this course, students who have successfully completed "Introduction to Music Production" and "Advanced Digital Music Production" can enroll in Open Lab, a trimester-long program. In Open Lab, they will focus on creating 3-5 projects using Digital Audio Workstations, primarily Logic Pro X. Students will collaborate with the instructor to develop and refine their project ideas, while the instructor serves as both a creative guide and artistic coach, enabling students to build a portfolio of original work. The flexibility of this course allows students to enroll in it multiple times during their high school career.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Digital Music Production, Advanced Digital Music Production
LENGTH: 1 Trimester, may be repeated with permission of instructor

# PHYSICAL EDUCATION

### Team Sports & Recreational Activities

In this course, students will participate in a variety of units designed to introduce lifetime activities from personal conditioning to individual and team sport activities. Students will learn basic skills and concepts in each sport and activity that will help them develop the necessary confidence and competence to participate in physical activities for years into the future. Movement concepts, fitness principles and exercising in the target heart rate zone are emphasized in this class. The use of heart rate monitors, will be used to help with the understanding and value of exercise in an appropriate heart rate zone for a variety of activities. Cooperative learning and sportsmanship will be a focus of each activity. An emphasis will be placed on students gaining an understanding of how participating in regular physical activity can benefit their overall level of physical and mental health.

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

### Performance PE 1 (out of season strength & conditioning)

This course is designed for students focusing on out-of-season strength and conditioning to improve athletic performance and overall fitness. Students will learn proper lifting techniques, foundational movement patterns, and principles of progressive strength training. The course emphasizes muscular strength, endurance, speed, agility, power, and conditioning through structured workouts, plyometrics, and other training methods. Students will develop personal fitness goals, track progress, and build an understanding of safe and effective training practices that support long-term athletic development.

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

### Performance PE 2 (in season strength & conditioning)

This course builds upon the foundational skills, lifting techniques, and training principles developed in Performance PE 1. Designed for in-season student-athletes, the course focuses on maintaining strength, supporting athletic performance, and promoting recovery throughout the competitive season. Students will participate in sport-appropriate strength and conditioning programs while learning strategies for injury prevention, mobility, flexibility, myofascial release, and active recovery. The curriculum emphasizes nutrition, hydration, sleep,

stress management, and balancing training demands with competition. Students will also develop leadership, coachability, accountability, and teamwork skills to support success in athletics and lifelong fitness.
GRADE LEVEL: 9-12
CATEGORY: Fulfills 1 trimester of PE requirement
PREREQUISITE: Performance PE 1
LENGTH: 1 Trimester

### Lifestyle Fitness

In this course, students will focus on developing an understanding of physical fitness, with particular attention to muscular strength, muscular endurance and flexibility. Students will explore mindfulness and physical movement through a variety of practices, including (but not limited to) yoga, strength training, Pilates, and other similar activities. Emphasizing the importance of body awareness, breath control, and mental presence, students will learn to connect movement with focus. The curriculum places a strong emphasis on fitness concepts, nutrition education, and stress management. Students may utilize the cardio room and fitness center, engaging with cardio equipment to enhance their workout experience. An emphasis will be gaining an appreciation for the joy, challenges, self-expression, and social interaction that physical activity offers. Throughout the course, students will also be expected to demonstrate citizenship, engage in cooperative learning activities, and recognize the benefits of regular physical activity in managing stress, creating active learners and classroom achievers.

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

### Fitness & Dance

Dive into the energizing world of Fitness & Dance, where movement meets rhythm! This dynamic class combines various dance styles with fitness principles to enhance cardiovascular health, strength, flexibility, mental health and balance and coordination. Students will explore different genres of dance, all while engaging in high-energy workouts designed to improve endurance and overall fitness 3 days a week. Two days a week students will engage in cardiovascular and strength workouts, ensuring they build their muscular strength and improve heart health. Additionally, they will immerse themselves in learning various dance styles through the guidance of guest instructors and media, and creating their own dances, culminating in an exciting performance at the end of the trimester. Whether you're a seasoned dancer or a complete beginner, this inclusive environment encourages everyone to find their groove while working toward fitness goals.

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

### Officiating Youth and High School Sports (RefReps)

In this course, the primary focus is on students earning the possibility of becoming a registered official. Students can only register for one sport each trimester. Students will combine video training, sports rules testing and practical application in games and situations to prepare for officiating high school, junior high and youth sports. Students will have the opportunity to connect with organizations to be hired for immediate work in the community in high need positions. Students will need to work with the teachers to find the proper timing for the sports they wish to get certified in, Volleyball, Football, Basketball, Soccer, Baseball or Softball. Students will engage in cardiovascular and strength workouts, ensuring they build their physical strength and endurance and their knowledge of living a healthy lifestyle. Students will also engage in sport specific skills and game play to create a better knowledge and understanding of game flow and strategy. (Course Sequence: Trimester 1- Basketball; Trimester 2- Volleyball or Soccer; Trimester 3 - Baseball or Softball. Options may differ; check with building counselors)

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

### Aerobic Fitness

This energizing course is designed to enhance cardiovascular health, increase endurance, and boost overall fitness through a variety of aerobic activities. Students will engage in high-energy workouts that may include running, cycling, plyometrics, and circuit training tailored to accommodate different fitness levels. They will gain knowledge about essential fitness concepts and conditioning techniques aimed at achieving improved physical fitness. Students will actively assess their progress through cross training, cardio kickboxing, muscular strength/toning, HITT, and other fitness activities on a weekly basis. Students will leave the class feeling empowered to make informed choices, overcome challenges, and cultivate lifelong positive habits in fitness, wellness, and movement activities.
GRADE LEVEL: 9-12
CATEGORY: Fulfills 1 trimester of PE requirement
PREREQUISITE: None
LENGTH: 1 Trimester

# PROJECT LEAD THE WAY

## Intro to Engineering Design

(Kirkwood CC Credit Course)
In this course, students interested in engineering gain valuable hands-on experience in applying the "Design Process" and documentation procedures, skills that are essential for success in Project Lead the Way courses. The focus is on honing product design abilities and utilizing CAD, particularly Autodesk Fusion 360, to create models, document designs, and effectively convey concepts to clients and manufacturers via prints and presentations. Additionally, students have the opportunity to explore career prospects through field trips, classroom visits by professionals, and job shadowing experiences, enhancing their understanding of potential career pathways in engineering.

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

## Principles of Engineering

(Kirkwood CC Credit Course)
This is a Project Lead the Way® class. In this pre-engineering course, students gain a comprehensive understanding of engineering and engineering technology, delving into various technology systems and manufacturing processes. This exploration equips them with the knowledge of how engineers and technicians employ math, science, and technology to solve engineering problems for the betterment of society. Additionally, the curriculum covers a wide range of topics, including Engineering Systems, Robotics, Strength of Materials, Power and Energy, Kinematics, Statics, Computer Programming, and Engineering for Reliability, offering a well-rounded foundation in the field.

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

## Civil Engineering & Architecture

(Kirkwood CC Credit Course)
In this course, students will delve into the design of both residential and commercial building projects, gaining expertise in various essential aspects. They will have the opportunity to apply their knowledge in areas including building components, structural design, energy

efficiency, stormwater management, site surveys, and soil analysis. Furthermore, students will collaborate in design teams, utilizing effective communication techniques, adhering to engineering standards, and producing comprehensive technical documentation, all while harnessing professional 3D design software to create solutions for significant course projects.

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

### Digital Electronics

(Kirkwood CC Credit Course)
In this course, students delve into the study of electronic circuits used for processing and controlling digital signals. The DE course primarily emphasizes exposing students to combinational and sequential logic design, fostering teamwork, developing communication methods, adhering to engineering standards, and mastering technical documentation. By employing the activity-project-problem-based approach found in all PLTW courses, students will actively analyze, design, and construct digital electronic circuits, continuously refining their interpersonal skills, unleashing their creative abilities, and deepening their grasp of the design process. The course covers four main units in detail, including 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)

In this course, engineering students enhance their expertise in efficiently creating products by expanding their skills in Computer-Aided Design (CAD) and incorporating Computer-Aided Manufacturing (CAM) software. Through hands-on experience with Computer Numerical Controlled (CNC) machines, students bring design concepts to life by transforming raw materials into finished products. Additionally, the course focuses on integrating robotic systems, including Automated Guided Vehicles (AGV) and robotic arms, into manufacturing systems, enabling students to grasp and apply advanced concepts in 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

(Kirkwood CC Credit Course)
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, data visualization, cybersecurity, and simulation.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Algebra 1 recommended
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, aerospace 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. This is not a Dual Credit Class.

GRADE LEVEL: 10-12
CATEGORY: Elective

PREREQUISITE: Successful completion of Principles of Engineering (POE) or Introduction to Engineering Design (IED), and completion of Algebra 2.
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 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 10th grade year.*

### Earth and Space Science*

In this course, students are provided with the opportunity to explore the interplay between science and its relevance to society and the natural world by engaging in hands-on laboratory work and activities. The curriculum places a strong emphasis on connecting earth and space science principles to everyday interests and issues. Throughout the course, students will delve into topics such as Earth's position in the Universe, Earth's various systems, and the impact of human activities on our planet, encouraging them to adopt the role of scientists, ask questions, conduct investigations, and even design their own experiments.

GRADE LEVEL: 9-12
CATEGORY: Fulfills Science requirement
PREREQUISITE: None
LENGTH: 1 Year

### Biology*

In this course, students can expect to gain a comprehensive understanding of fundamental biological concepts and processes. The curriculum spans from the organization of life at the molecular and cellular levels to the complexities of organisms and ecosystems. Throughout their studies, students will delve into the structure and function of living organisms, including genetics, evolution, and ecology, while honing their critical thinking, problem-solving, and scientific inquiry skills through a combination of theoretical knowledge, laboratory investigations, discussions, and projects.

GRADE LEVEL: 9-12
CATEGORY: Required for graduation
PREREQUISITE: None
LENGTH: 1 Year

### Human Anatomy & Physiology

In this course, students will embark on an introductory journey into the intricacies of the human body, delving into its structure and function. The curriculum will encompass fundamental concepts of human anatomy and physiology, underpinned by practical laboratory activities, including the examination of histology slides, organ models, and

dissections. Throughout the course, students will systematically explore the anatomy of each body system, gaining a comprehensive understanding of their structures and functions while discerning their interconnections and interdependencies.

GRADE LEVEL: 10-12
CATEGORY: Science Elective
PREREQUISITE: Biology; Chemistry/Chemistry Honors/Physical Science is a corequisite
LENGTH: 1 Year

### AP Biology

In this course, students will tackle a challenging second-year program designed to immerse them in the first-year college Biology class environment. The course focuses on the four Big Ideas of AP Biology, which encompass the concepts of evolution, energy utilization, information processing, and complex biological systems. As part of the curriculum, students will receive specific preparation for the AP Biology Exam, making it an integral aspect of the course. While not mandatory, prior or concurrent enrollment in Chemistry or Honors Chemistry is highly recommended to excel in this rigorous academic setting.

GRADE LEVEL: 10-12
CATEGORY: Elective
PREREQUISITE: Biology is a prerequisite; Chemistry is a corequisite (prerequisite of Chemistry suggested from College Board)
LENGTH: 1 Year

### Chemistry*

In this course, students will embark on a comprehensive journey to develop a robust conceptual grasp of chemistry. The curriculum encompasses essential chemical principles, delves into mathematical relationships, emphasizes hands-on laboratory exploration, and fosters higher-order thinking skills for real-world chemistry applications. Through a blend of laboratory experiments, engaging class discussions, and consistent practice, students will not only grasp the core concepts.
**Note:** For tenth graders who completed Biology in their freshman year, enrolling in Honors Chemistry is the recommended progression and this course is not intended to prepare students for AP Chemistry.

GRADE LEVEL: 10-12
CATEGORY: Fulfills Science requirement
PREREQUISITE: Algebra I
LENGTH: 1 Year

### Honors Chemistry

Honors Chemistry differs from Chemistry in rigor and pace. This course includes an intensive laboratory-based curriculum aimed at immersing students in fundamental chemical concepts through study and experimentation. Throughout the academic year, it extensively explores three central themes: the properties of matter, the structure of matter, and the interaction of matter. Tailored for students with a strong foundation in math and science, particularly for tenth graders who've completed Biology and exhibit an interest in pursuing science-related studies in college, this course serves as an ideal platform to deepen their understanding and passion for the field. **Note**: For tenth graders who completed Biology in their freshman year, enrolling in Honors Chemistry is the recommended progression.

GRADE LEVEL: 10-12
CATEGORY: Fulfills Science requirement
COREQUISITE: Algebra 2
LENGTH: 1 Year

### AP Chemistry

In this course, students will encounter a challenging and rigorous curriculum that closely mirrors a first-year college chemistry program. AP Chemistry is specifically crafted for highly motivated students with a keen interest in science-related fields like engineering, medicine, and the physical sciences. Topics covered include Stoichiometry, Thermodynamics, Atomic Structure, Quantum Mechanics, Periodicity, Kinetics, and Electrochemistry, all following the College Board's prescribed curriculum to prepare students for the AP Chemistry Exam.

GRADE LEVEL: 11-12
CATEGORY: Elective
PREREQUISITE: Honors Chemistry (regular Chemistry, if approved by instructor); (prerequisite of Algebra II suggested from College Board)
LENGTH: 1 Year

### Physics

In this course, the primary goal is to establish a solid conceptual foundation in physics, enabling students to perceive the underlying relationships that govern nature. The curriculum places a strong emphasis on fostering comprehension through laboratory work and in-class discussions. For those aspiring to pursue further studies in science, this course not only provides conceptual groundwork but also equips students with essential problem-solving, critical thinking, and data analysis skills that are applicable across various subject areas, serving as a valuable springboard for deeper engagement in the sciences.

GRADE LEVEL: 11-12

CATEGORY: Elective
PREREQUISITE: Geometry
COREQUISITE: Algebra 2
LENGTH: 1 Year

### AP Physics 1

Advanced Placement Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics by developing models of physical phenomena through inquiry-based investigations. Students build their understanding of physical models as they explore and solve problems in these content areas: Kinematics, Forces and Translational Dynamics, Work, Energy, and Power, Linear Momentum, Torque and Rotational Dynamics, Energy and Momentum of Rotating Systems, Oscillations, and Fluids. For students aspiring to pursue science, this course serves as an excellent introduction to physics and equips them with the skills and knowledge necessary to undertake the Advanced Placement Physics 1 Exam in May.

GRADE LEVEL: 11-12
CATEGORY: Elective
COREQUISITE: Algebra 2 and Chemistry
LENGTH: 1 Year

### AP Physics 2

AP Physics 2 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics by developing models of physical phenomena through inquiry-based investigations. Students build their understanding of physical models as they explore and solve problems in these topics: Thermodynamics, Electric Force, Field, and Potential, Electric Circuits, Magnetism and Electromagnetism, Geometric Optics, Waves, Sound, Physical Optics, and Modern Physics.
Students can expect to engage in high-level problem-solving and analysis through laboratory investigations and application questions, ultimately preparing them for the Advanced Placement Physics 2 exam in May.

GRADE LEVEL: 11-12
CATEGORY: Elective
PREREQUISITE: AP Physics 1, Pre-Calculus
LENGTH: 1 Year

### AP Physics C: Mechanics

Advanced Placement Physics C Mechanics is a college-level, calculus-based physics course and more rigorous than the standard physics course, the pace of this course is accelerated. In

this course, the majority of the content aligns with the standard physics curriculum, but it also incorporates additional topics such as rotational dynamics and the conservation of angular momentum. The course distinguishes itself through its emphasis on more demanding problem-solving and laboratory work, necessitating the application of advanced mathematical concepts, including those from calculus and creative thinking. For students aspiring to pursue physics or engineering, this course serves as an excellent introduction to physics and equips them with the skills and knowledge necessary to undertake the Advanced Placement Physics C Mechanics Exam in May.

GRADE LEVEL: 11-12
CATEGORY: Elective
Co-REQUISITE: AP Calculus AB or BC
LENGTH: 1 Year

### Physical Science*

In this course, students will delve into the principles of chemistry and physics, with a strong emphasis on laboratory inquiry, conceptual relationships, and the development of higher-order thinking skills. These fundamental principles will be cultivated through hands-on laboratory experiences, engaging class discussions, and regular practice. Furthermore, the course focuses on the application of Chemistry and Physics concepts to real-world interests and concerns, and upon successful completion, it contributes to fulfilling the three-year science requirement for graduation, along with Earth and Space Science and Biology.

GRADE LEVEL: 11-12
CATEGORY: Fulfills Science requirement
PREREQUISITE: Earth and Space Science and Biology
LENGTH: 1 Year

### AP Environmental Science

In this course, AP Environmental Science students will delve into the intricate connections within the natural world, unraveling the complexity of environmental phenomena. They will critically assess a wide range of environmental issues, both stemming from natural processes and human activities, while also appraising the associated risks and considering innovative solutions. The curriculum emphasizes hands-on learning through laboratory experiments, fieldwork, and a comprehensive exploration of contemporary topics, encompassing various disciplines such as geology, biology, environmental studies, chemistry, and geography.

GRADE LEVEL: 10-12
CATEGORY: Elective

PREREQUISITE: Biology is a prerequisite; Chemistry or Physical Science corequisite
LENGTH: 1 Year

## SOCIAL STUDIES

### American Studies*

In this course, students delve into a comprehensive survey of political, economic, social, and diplomatic developments spanning from the late 1800s to the present day. They explore significant issues, notable personalities, and key events from this time period, all with the aim of fostering a deeper understanding of the interconnectedness between the past and present. Throughout the course, students engage in various learning activities that enhance their critical thinking abilities, enabling them to apply these skills to analyze historical events as well as current and future circumstances.

GRADE LEVEL: 9-12
CATEGORY: Fulfills U.S. History requirement
PREREQUISITE: None
LENGTH: 1 Year

### World History*

In this course, students gain a comprehensive understanding of major cultural, economic, political, and social developments that have influenced our world. During the first trimester, students receive an overview of history before 1450, exploring the foundations of human cultures and the dynamics of civilizations and empires. The remainder of the course focuses on world history from 1450 to the present, examining the growth of regional and global connections, advancements in the arts, sciences, agriculture, and industry, and the development of the modern world. Throughout the course, students analyze primary and secondary sources, visual materials, and historical evidence from a global viewpoint, honing their ability to contextualize historical events, draw connections among different regions and cultures, and construct compelling arguments based on evidence.

GRADE LEVEL: 9-12
CATEGORY: Fulfills World History requirement
PREREQUISITE: None
LENGTH: 1 Year

### U.S. Government I: Foundations & Principles*

In this course, 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 & Policy*

In this course, students will examine the structure, functions, and policies of the 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 public policy.

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*

In this course, students will study 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 U.S. History

This 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

In this course, high school students are exposed to a yearlong curriculum that mirrors an introductory college course in human or cultural geography. The primary focus of the course is to apply geographical skills to real-world issues and problems with global and historical significance. Key topics emphasized within the course encompass population analysis, political systems, cultural aspects, agriculture, economic development, and urban growth, all of which have significant impacts on human activities and the environment.

GRADE LEVEL: 9-12
CATEGORY: Fulfills World History requirement
PREREQUISITE: None
LENGTH: 1 Year

### AP World History

In this introductory college-level course students delve into modern world history from 1200 CE to the present, enhancing their comprehension of global historical developments. In this course, students hone their historical thinking skills, mirroring the methods employed by professional historians including analyzing historical sources and learning to make connections and craft persuasive historical arguments. Students explore six central themes of the human story including: (1) interaction with the environment, (2) cultural developments and interactions, (3) governance, (4) economic systems, (5) social interactions and organization, and (6) technology and innovation. The course's objective is to challenge students to establish connections across diverse times and locations, encompassing the five major geographical regions of 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

In this course, students delve into the core elements of United States government and politics, covering topics such as the U.S. Constitution, federalism, civil liberties & civil rights, linkage institutions, and national policy-making institutions. It places a strong emphasis on the understanding of fundamental principles, processes, and policies that shape the American political landscape. Students will also explore the intricacies of public policy creation and implementation as a central theme in the curriculum.

GRADE LEVEL: 11-12
CATEGORY: Fulfills US Government requirement
PREREQUISITE: None
LENGTH: 1 Year

### AP Economics: Micro & Macro

In this course, students will delve into the fundamentals of economics, including individual decision-making processes, product and factor markets, income distribution, market failures, and government intervention for economic efficiency and equity, as seen in AP Microeconomics. Similarly, AP Macroeconomics, as another introductory college-level course, shifts its focus to the broader economic system, covering topics like national income, price-level determination, economic performance metrics, the financial sector, stabilization policies, economic growth, and international economics. Throughout both courses, students will hone their skills in using graphs, charts, and data to analyze and elucidate various economic concepts.

GRADE LEVEL: 11-12
CATEGORY: Fulfills Economics requirement
PREREQUISITE: None
LENGTH: 1 Year

### The Civil War

In this course, students will delve into the Civil War, a pivotal event in American history, often considered its defining moment. By exploring the war's political, social, and military dimensions, they will gain a deeper insight into the motivations behind this significant conflict. Through the study of pre-war American society, the roles of the North and South, Iowa's contributions, as well as battles and campaigns, students will be tasked with

producing a research paper and presentation, fostering a comprehensive understanding of this critical period.

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

### Psychology I

In this course, students delve into the systematic and scientific examination of human and animal behavior and mental processes. The curriculum strongly encourages students to enroll in all three Psychology courses. The units of study cover a range of topics, such as the history and approaches of psychology, research methods in psychological science, and the biological bases of behavior.

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

### Psychology II

In this course, students build upon the foundation laid in Psychology I by delving deeper into the scientific exploration of psychology. It covers various units of study, including the Biological Bases of Behavior, Sensation and Perception, Learning processes like Classical and Operant Conditioning, as well as topics like Intelligence-Testing, Motivation, Emotions, Stress, and Health. This continuation offers a comprehensive understanding of the field, expanding on the fundamentals established in Psychology I.

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

### Psychology III

This Psychology III course serves as the culmination of the introductory study of psychology, building upon the fundamental knowledge gained in previous courses. It delves into various units of study, including Developmental Psychology, Personality, Abnormal Behavior, Treatment of Psychological Disorders, and Social Psychology. Students will gain a comprehensive understanding of these topics, deepening their grasp of the scientific aspects of psychology.

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

### AP Psychology

In this course, students receive training in applying social science methods to address questions related to behavior and mental processes. Successful completion of the national exam in the spring can earn students college credit for this introductory level-equivalent course. Throughout the course, students explore various major divisions of research as defined by the American Psychological Association (APA), covering topics such as research methods, biological bases of behavior, perception, learning, motivation, and social psychology, among others.

GRADE LEVEL: 11-12
CATEGORY: Elective
PREREQUISITES: None
LENGTH: 1 Year

### Sociology

In this course, students are introduced to the study of human society and social behavior, making it a comprehensive survey course. Through the study of sociology, they develop a deeper understanding of interpersonal relationships and the various forces that shape social interactions. This course covers a wide range of topics, including an introduction to sociology, key concepts, and relevant issues related to group dynamics and the impact of social conditions on individuals' lives.

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

### Ethnic Studies*

In this course, students are offered a trimester-long social studies elective, enabling them to delve deeply into contemporary issues. The curriculum places a strong emphasis on student-centered exploration and discussions, encouraging students to connect their learning to current events at local, national, and international levels. Throughout the course, students are guided by fundamental questions about identity, community involvement, and

the power to effect change. Ultimately, the course concludes with students developing a service project that highlights awareness and action in response to the issues studied.

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 LANGUAGES

## Spanish I

In this course, students receive a comprehensive foundation in language learning, encompassing listening comprehension, speaking, reading, and writing skills. The curriculum is designed to immerse learners in everyday situations while exploring the cultural aspects of Spanish-speaking countries. Topics covered include greetings, conversation, food, numbers, weather, family, and more, with a strong focus on communication using proper grammar and vocabulary. Students engage in various activities and regular homework assignments to develop proficiency, and they have the option to continue their Spanish studies with Spanish II or Spanish II Honors upon completion of this course.

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

## Spanish II

In this course, students build on the language foundation initiated in Spanish I, further expanding their knowledge of the Spanish language, communication skills, and cultural understanding. They practice these skills through listening comprehension, speaking, reading, and writing, covering conversational phrases, various text types, cultural studies, and diverse grammatical structures. Successful completion of this course enables students to choose between progressing to Spanish III or Spanish III Honors

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Successful completion of Spanish I
LENGTH: 1 Year

## Spanish II Honors

In this course, which builds on the language foundation established in Spanish I, highly motivated students keen on expanding their language and cultural knowledge. The curriculum delves deeper into grammar, vocabulary, and cultural subjects compared to Spanish II, with a strong emphasis on enhancing proficiency in speaking, reading, writing, listening, and cultural comprehension, all conducted primarily in Spanish. Upon successful completion of this course, students may take Spanish III or Spanish III Honors for students who meet the requirements.

GRADE LEVEL: 9-12

CATEGORY: Elective
PREREQUISITE: Successful completion of Spanish I or prior approval of a Spanish teacher
LENGTH: 1 Year

### Spanish III

In this course, students review and expand on previously learned skills, delving into more complex vocabulary and language structures. It offers a comprehensive review of materials from Spanish I and II, enhancing language skills and cultural understanding. The curriculum covers various topics, including art, music, and the interaction of Hispanic cultures with our own. Students explore a range of reading genres, such as legends, short stories, magazine articles, and current events, with a significant portion of the class conducted in Spanish. Upon successful completion of this course, students have the option to choose between Spanish IV or AP Spanish.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Successful completion of Spanish II or Spanish II Honors
LENGTH: 1 Year

### Spanish III Honors

In this course, designed for highly motivated students with a proven ability to acquire language quickly, participants can expect to enhance their language skills, laying the foundation for more advanced studies in Spanish. The program offers a comprehensive review of material covered in Spanish I and II while introducing complex language skills necessary for upper-level courses. Through exploration of various facets of Hispanic language, identities, and cultures, including current events, readings, authentic materials, art, music, and literature, students not only improve their language proficiency but also broaden their cultural understanding. This immersive experience is primarily conducted in Spanish, and upon successful completion, students can choose to pursue either Spanish IV or AP Spanish.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Successful completion of Spanish II Honors or prior approval of a Spanish teacher
LENGTH: 1 Year

### Spanish for Heritage Speakers

In this course, tailored for Heritage Speakers of Spanish, students not only review and strengthen their language skills but also expand their vocabulary and encounter more complex language contexts, ultimately enhancing their language proficiency and literacy

while gaining a deeper understanding of Hispanic cultures. This program aims to prepare students for AP Spanish while addressing the reality of Latinos in the United States. The curriculum covers a wide range of topics, including Spanish in the US and worldwide, Hispanic and Latino identity, science, technology, the arts, current events, and social issues, emphasizing extended reading and writing. By delving into authentic texts, films, and realia from various Hispanic cultures, students engage with historical, social, and cultural aspects of the Spanish-speaking world, all while learning to apply Spanish in real-world contexts. The course's focus on enrichment, writing, and speaking assignments ensures that students are well-prepared to continue their Spanish studies in the AP program, college, and beyond, inside and outside the language classroom.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Successful completion of Spanish II, Spanish II Honors, placement test, or prior approval of a Spanish teacher
LENGTH: 1 Year

### Spanish IV

In this course, students focus on applying their previously acquired language skills and enhancing their communication abilities in speaking, listening, writing, and cultural understanding. They delve into Hispanic language and culture through selected Spanish literature, history, and cultural materials, expanding their vocabulary and language proficiency through exposure to authentic sources. The course is primarily conducted in Spanish and serves as a preparation for college placement. After completing this course, students have the option to choose Spanish V or AP Spanish for further studies.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Successful completion of Spanish III, Spanish III Honors, or Spanish for Heritage Speakers
LENGTH: 1 Year

### AP Spanish

In this course designed for highly motivated students looking to enhance their language skills and continue their Spanish education in college, the primary objective is to boost language proficiency and cultural understanding through intensive speaking, reading, writing, and listening exercises. The entire course is conducted in Spanish, incorporating authentic resources from Spanish cultures to enrich the learning experience. While students spend the year preparing for the AP Spanish Language and Culture Exam, taking the optional

exam in May is their choice, and the curriculum revolves around thematic discussions covering a broad spectrum of contemporary issues.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Successful completion of Spanish III Honors, Spanish for Heritage Speakers, Spanish IV, or prior approval of a Spanish III teacher
LENGTH: 1 Year

### Spanish V

After completing Spanish IV or AP Spanish, motivated students can continue their language learning with this course. Spanish V is a dynamic and enriching course designed for students to continue developing their Spanish language skills and explore the world, and their place in it. Through the study of Latin American social issues, students will build language proficiency and gain a local to global perspective. Through meaningful conversations and academic discussions, research, writing, and presentations, students will practice expressing their perspectives, developing arguments, and responding to diverse viewpoints in the target language. The course simulates a college-like experience, helping students build confidence in using Spanish as they develop their proficiency. By the end of the course, students will not only refine their language and critical thinking skills but also have the opportunity to earn the Seal of Biliteracy, a recognition of their high-level proficiency and commitment to bilingualism.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Successful completion of Spanish IV or AP Spanish
LENGTH: 1 Year

### French I

In this course, students receive a comprehensive foundation in language learning, covering listening comprehension, speaking, reading, writing, and culture. The emphasis is on effective communication, incorporating appropriate grammar and vocabulary. Language skills are developed through real-life scenarios and the cultural context of French-speaking countries, encompassing various aspects such as pronunciation, greetings, conversation, vocabulary for different topics, cultural insights, and grammar structures. Additionally, students engage in daily activities and homework to enhance their language proficiency. Upon completion, students have the option to continue to French II or French II Honors.

GRADE LEVEL: 9-12
CATEGORY: Elective

PREREQUISITE: None
LENGTH: 1 Year

### French II

In this course, students build upon the foundation provided in French I, focusing on communication with a continued emphasis on necessary grammar and vocabulary. The class not only expands students' knowledge of the French language but also delves into French culture. Students engage in a comprehensive study of grammar, including object pronouns, comparisons of adjectives and adverbs, and the use of infinitives, while practicing language skills in various everyday situations through audio and video recordings and computer software. Upon completion, students have the option to continue to French III or French III Honors.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Successful completion of French I
LENGTH: 1 Year

### French II Honors

In this course, students build upon the foundation established in French I, targeting highly motivated students who exhibit aptitude and an increased interest in expanding their understanding of both the language and culture. This course covers the same themes and objectives as the on-level of French II, with more robust content and rigorous expectations. Designed for self-motivated learners, the course maintains a strong focus on communication, integrating essential grammar and vocabulary components while expanding their knowledge of the French language and culture. Successful completion of the course allows students to choose between advancing to French III or opting for French III Honors.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Successful completion of French I or teacher recommendation
LENGTH: 1 Year

### French III

In this course, students enhance their language proficiency and deepen their knowledge of French cultures through immersive instruction primarily conducted in French. Building on the foundation laid in French I and II, French III places added emphasis on practical application of reading, writing, listening, and speaking skills within appropriate contexts. The curriculum encompasses a comprehensive review of previously learned grammatical structures, while introducing new elements such as reflexive verbs, relative pronouns, and the

imperfect and future verb tenses, along with the conditional and subjunctive moods. Additionally, students engage with diverse materials including textbooks, films, varied readings, and technology-driven research projects in the library and computer lab. Successful completion of this course allows students to choose between advancing to French IV or pursuing AP French.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Successful completion of French II or French II Honors
LENGTH: 1 Year

### French III Honors

In this course, students dedicated to language acquisition aim to enhance and broaden their skills through a comprehensive curriculum. The class encompasses a review of previously learned language skills, expansion of vocabulary, and introduction to more complex language structures, fostering improved proficiency and a deeper understanding of French cultures. With a strong emphasis on communication, students engage in immersive experiences conducted primarily in French, focusing on reading, writing, listening, and speaking skills within appropriate contexts. The curriculum includes a thorough examination of grammatical structures, such as reflexive verbs, relative pronouns, and the imperfect and future verb tenses, along with the conditional and subjunctive moods. Beyond the textbook, students explore the language through films, diverse readings, and research projects. Upon completion, students can choose to continue their French studies with either French IV or AP French

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Successful completion of French II or French II Honors and teacher recommendation
LENGTH: 1 Year

### French IV

In this course, the primary emphasis is on enhancing students' communication skills, covering speaking, listening, writing, and fostering cultural understanding. Conducted predominantly in French, the curriculum also includes a robust cultural component, preparing students for college placement while offering the option to advance to AP French. The class is thoughtfully organized around various themes, including relationships, city life, government, media, family, immigration, and identities, and it encourages students to apply their previously acquired language skills, with grammar reviews integrated into each thematic unit.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Successful completion of French III or French III Honors
LENGTH: 1 Year

**AP French**
In this course, students are afforded the opportunity to enhance and sustain their proficiency in the language through a theme-based curriculum that encompasses grammar review and the continuous development of speaking, listening, reading, and writing skills, utilizing authentic literature, films, and materials from the Francophone world. Engaging in discussions on contemporary issues within French/Francophone societies, students will diligently prepare for the AP exam, college entrance/placement exams, and have the option to partake in a spring break trip to France. With an emphasis on achievement, students are encouraged to enroll in the Seal of Biliteracy after completing the course, and a passing grade at the end of each trimester is imperative for progression to the subsequent trimester.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Successful completion of French III, French III Honors, French IV and/or prior approval of a French teacher
LENGTH: 1 Year

**French V**
In this course, designed for highly motivated students who have successfully completed either French IV or AP French, the curriculum is a dynamic and enriching course designed for students to continue developing their French language skills and explore the world, and their place in it. Through the study of French speaking countries, social issues, students will build language proficiency and gain a local to global perspective. Through meaningful conversations and academic discussions, research, writing, and presentations, students will practice expressing their perspectives, developing arguments, and responding to diverse viewpoints in the target language. The course simulates a college-like experience, helping students build confidence in using French as they develop their proficiency. By the end of the course, students will not only refine their language and critical thinking skills but also have the opportunity to earn the Seal of Biliteracy, a recognition of their high-level proficiency and commitment to bilingualism.
GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Successful completion of French IV or AP French
LENGTH: 1 Year

# LEADERSHIP DEVELOPMENT

### Peer to Peer Elective Course Credit Program

Peer to Peer is an elective course that provides students an opportunity to support and model academic skills, social skills, and age appropriate behaviors in an academic setting so that the assigned student with an individualized education plan (I.E.P.) participates in a successful, diverse learning experience. The LINK student is trained as a peer mentor who will accompany a student with an I.E.P. to one of his/her general or special education classes. There is a focus on leadership skills, knowledge of a variety of disabilities, building relationships, developing and increasing problem-solving and communication, and gaining a greater acceptance for those who are different. The curriculum includes journaling, content reflections, and forum responses. LINK students will also have regular interaction, modeling, and communication with a peer with disability. This class may be taken more than once with program director approval.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: None. Students must fill out an application form and work through a selection and interview process to determine an appropriate fit for a peer.
LENGTH: 1 Year

### Behavioral Health Studies

Dialectical Behavioral Training (DBT) in Schools is a research-based, proven effective approach for working with youth. The focus of this course is skills training for emotional problem solving for adolescents. Content taught in this course will include student learning: Mindfulness-how to focus attention, pay attention to one thing at a time and increase awareness of the present. Emotion regulation-increasing skills to reduce unpleasant emotions and learning skills to increase positive emotions. Distress tolerance-increase the ability to handle elevated emotions and reduce impulsiveness across different environments. Interpersonal effectiveness- develop and maintain better interpersonal relationships by improving assertiveness, reducing conflict, and increasing self-respect.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Building teams will review requests for participation.
LENGTH: 1 trimester

### AVID (Advancement Via Individual Determination)

AVID is an acronym for Advancement Via Individual Determination. In this course, students are introduced to a comprehensive college readiness program designed to equip them with vital skills for success in higher education. Through personalized support in academics, social interactions, and emotional development, participants are well-prepared to excel in their most challenging school courses. AVID places a strong focus on enhancing students' writing, critical thinking, teamwork, organization, and reading abilities, making it an ideal choice for those who pass through a selective application process.

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

### iJAG

In this course, students have the opportunity to engage with employers and community-based organizations through project-based learning, where they focus on mastering 37 core competencies across six essential skill sets, including personal skills, leadership skills, communication skills, job attainment skills, job success skills, and career development skills. The overarching goal of iJAG is to prepare students for meaningful careers post-graduation by involving them in classroom and project-based learning experiences. Through individual career education, increased academic achievement, and continued guidance for one year following high school graduation, iJAG aims to enhance workplace competencies and support successful career and life transitions.

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

### Guided Learning Pathway-ELP Independent Study

In this course, students have the opportunity to explore a topic of their choice through personalized learning and inquiry skills within an elective area, receiving additional support and guidance. To participate, students must be identified for ELP services and exhibit an interest in independent work with high-level content resources. The course offers flexibility, featuring periodic predetermined meetings between students and teachers, allowing for 1:1 or small group check-ins as they work towards their goals, potentially earning one or multiple elective credits based on the scope of their work. Eligibility for enrollment is determined by previous ELP participation or approval through the district's High School ELP Self-Nomination Form, with additional information available at www.IowaCitySchools.org/ELP.

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

**Explorations & Innovations**
In this course, Explorations and Innovations within the Extended Learning Program (ELP), students have the opportunity to pursue an elective area of study, benefiting from additional support and guidance to delve deeply into a personalized topic of their choice using inquiry skills. The daily class structure facilitates continuous exploration of project ideas, coupled with weekly sessions dedicated to discovering new topics and skills. Enrollment in the course is contingent upon prior ELP identification or approval through self-nomination and teacher nomination.

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

**PBL Lux Mentis, Lux Orbis**
In this course, students engage in project-based learning (PBL), a dynamic approach where they actively design, develop, and construct hands-on solutions to complex problems. PBL is structured to enhance students' creative capacity, encouraging them to collaboratively tackle difficult or ill-structured problems within small teams. The course guides students through a series of phases, involving the identification of a problem, consensus on or creation of a solution path, development of a prototype, and iterative refinement based on feedback from experts, instructors, or peers.

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

# ADDITIONAL COURSES

### AP Capstone Seminar

In this course, AP Seminar serves as a foundational platform for students, fostering cross-curricular discussions that navigate the complexities of academic and real-world topics through the analysis of diverse perspectives. Employing an inquiry framework, students hone their skills in reading and analyzing articles, research studies, literary, and philosophical texts, as well as interpreting speeches, broadcasts, and artistic works. The course focuses on synthesizing information from various sources, cultivating individual perspectives through research-based essays, and developing proficiency in designing and delivering oral and visual presentations, individually and collaboratively, with the ultimate goal of empowering students to accurately analyze and evaluate information for crafting evidence-based arguments.

GRADE LEVEL: 10-11
CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Year

### AP Capstone Research

In this course, students engage in a comprehensive exploration of an academic topic, problem, or individual interest, undertaking a year-long, research-based investigation to address a specific research question. Building upon the skills acquired in the preceding AP Seminar course, students delve into research methodology, ethical practices, and the acquisition, analysis, and synthesis of information. The culmination of their efforts results in a substantial academic paper spanning 4000–5000 words, complemented by a performance or exhibition of the product, where applicable, and a presentation featuring an oral defense.

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

### How College Works

(Kirkwood CC Credit Course)
In this course, students delve into the exploration of their individual strengths and the development of strategies to reinforce personal responsibility, while also focusing on college readiness, academic success strategies, and the formulation of career readiness goals. The curriculum highlights distinctions between high school and college expectations, aiding students in identifying suitable college programs or majors and appropriate career paths.

Additionally, the course provides support in taking and utilizing placement tests for college admission, as well as imparting knowledge on personal financial management.

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

### Tech Support: Media Production*

In this entry-level production course, students focus on developing the skills to capture images, video, and audio, and then seamlessly edit these elements together to effectively communicate a message or tell a story. The course aims to provide students with foundational knowledge and hands-on experience in media production.

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 Language Learners.
In this course, English learners work towards meeting academic standards through a curriculum aligned with the Iowa Core and English Language Proficiency Standards across all subject areas. Placement in language development courses is determined based on state and federal guidelines for students who are not yet proficient in the English language. The courses cater to beginning, intermediate, and advanced English learners, offering explicit instruction in all language domains (listening, speaking, reading, and writing), with a specific focus on developing academic language proficiency. Additionally, sheltered content courses provide support in learning core subject matter while fostering language development for English learners.

### S.T.A.R.S (Strategic Thinking & Reading Skills)

In this course, the emphasis is on enhancing students' reading proficiency by addressing key components such as fluency, vocabulary, comprehension, and stamina. Research-based methods are employed to help students improve their reading levels, and the acquired skills are expected to be applied across various content areas. It's important to note that this course does not fulfill Language Arts graduation requirements, NCAA requirements, and may not meet entrance requirements for some colleges and universities.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Enrollment based on Reading assessment scores
LENGTH: 1 Year

## WORK-BASED LEARNING COURSES

### Internship Experience 1

In this course, students receive guidance in selecting a career goal and preparing for employment, with a focus on identifying interests, abilities, and values, and exploring various career options. The curriculum emphasizes teaching students how to access labor market information and stay informed about employment trends. Additionally, students are required to secure their own work experience, committing to 5-15 hours per week of employment for a sustained experience each trimester.

GRADE LEVEL: 10-12
CATEGORY: Elective
PREREQUISITE: None (Students should obtain employment prior to course registration if possible)
LENGTH: 1 Trimester

### Internship Experience 2

In this course, students focus on developing essential skills for obtaining employment and mastering the attitudes required for success in the workplace. The curriculum includes practical exercises in resume writing, job application completion, and interviewing techniques. Furthermore, students engage in workplace problem-solving strategies and showcase the skills necessary for thriving in a diverse environment, with a requirement of gaining 5-15 hours per week of employment for a sustained experience each trimester.

GRADE LEVEL: 10-12
CATEGORY: Elective
PREREQUISITE: Internship Experience ~~2~~ 1 (Students should obtain employment prior to course registration if possible)
LENGTH: 1 Trimester

### Internship Experience 3

In this course, students concentrate on cultivating habits and employability skills essential for workplace success, with a focus on professional behavior, a positive attitude, and

understanding the impact of professional values. The curriculum includes training in using job search tools for career investigations within specific occupations, highlighting the significance of presenting a professional image. Additionally, students are mandated to secure their own work experience, dedicating 5-15 hours per week to employment for a sustained experience throughout each trimester.

GRADE LEVEL: 10-12
CATEGORY: Elective
PREREQUISITE: Internship Experience 2 (Students should obtain employment prior to course registration if possible)
LENGTH: 1 Trimester

### Nursing Assistant With Apprenticeship

In this Certified Nursing Assistant (CNA) Apprenticeship course, students have the opportunity to earn high school credit while working in a medical community as a CNA. The apprenticeship involves performing a range of duties, including caring for residents or clients in a nursing home, responding to call systems, assisting with activities of daily living (ADL), and maintaining respect and dignity in all aspects of care. As part of a registered apprenticeship program, students are required to have their own transportation for this hands-on learning experience.

GRADE LEVEL: 11-12
CATEGORY: Elective
PREREQUISITE: Students must have passed the CNA exam and gain employment as a CNA.
LENGTH: 1 Trimester

### Welding With Apprenticeship

In this course, students undergo comprehensive preparation for an apprenticeship in the welding trade. Building upon the fundamentals of welding, including safety procedures, equipment usage, and various welding processes, students gain hands-on experience in welding different types of metals and joints. The course aims to equip students with the skills and knowledge necessary to excel in a welding apprenticeship.

GRADE LEVEL: 11-12
CATEGORY: Elective
PREREQUISITE: Students will need to complete the Advanced Manufacturing and Welding Academy at Kirkwood Community College prior to enrolling in the class. Also, students will need to gain employment in a welding-related business.
LENGTH: 1 Trimester

### Work-Based Learning Employability Skills

(Kirkwood CC Credit Course)
In this course students develop the skills necessary to obtain employment (part-time, full-time, and internships), and to learn and practice the skills and attitudes required for job success. Students will research the job market and companies, and practice resume writing, job application completion, and interviewing techniques. Additionally, students will practice workplace problem-solving strategies, and demonstrate the skills required to work in a diverse environment. Students will earn college credit for **WBL-110 at Kirkwood Community College**.

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

### Work-Based Learning Internship Practicum

(Kirkwood CC Credit Course)
In this course, students have the opportunity to learn in a real work setting under the guidance of an instructor and an employer mentor or supervisor. The program is designed to provide practical experience in the student's chosen field of study, incorporating job training and assignments aimed at developing workplace communication skills, understanding industry and organizational structures, and honing problem-solving skills. Successful completion of the course results in students earning college credit for **WBL-200 at Kirkwood Community College**.

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

### Student Built House

In this course, students engage in the construction of a residence from inception to completion under the guidance of professional mentors. The course prioritizes hands-on involvement, emphasizing job site safety, trade skills, and careers in the fields of Architecture, Construction, and Engineering. Spanning three periods throughout the entire school year and involving multiple high schools simultaneously, the class ensures that students gain a comprehensive understanding of the chronological building processes, concepts of building science, and the professional careers integral to creating a structure. The course is taught off-site at a community location.  Transportation will be provided.

GRADE LEVEL: 10-12
CATEGORY: CTE Elective
PREREQUISITE: Introduction to ACE and Construction Technology, or instructor approval
LENGTH: 3 Periods (1 Year)

### Geometry in Construction

In this course, students delve into geometry concepts while applying them to residential construction, establishing connections between mathematical principles and practical building applications. The course exposes students to various construction careers, including engineering, architecture, construction management, interior design, landscape architecture, and surveying. Additionally, students learn tool and worksite safety, problem-solving with tools, drawing interpretation, and utilize coordinate geometry to study area, perimeter, volume, transformations, congruence, and functions, making it a comprehensive two-period commitment that earns students both a math credit and a CTE elective credit.

GRADE LEVEL: 9-12
CATEGORY: Math and CTE
PREREQUISITE: Algebra I
LENGTH: 1 Year

### Construction Materials Processing (Woodworking)

In this course, students acquire proficiency in using both hand and power tools to complete individual or team projects for the school or community. The curriculum goes beyond construction carpentry tools to include the safe utilization of fine woodworking tools, providing students with a comprehensive skill set. Throughout the course, students gain hands-on experience in design, drawing, material selection, cost estimation, and project planning, fostering an understanding of manufacturing processes and culminating in the creation of individual or team projects.

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

### Construction Materials Processing II (Advanced Woodworking)

In this course, students build upon the foundation established in Construction Materials Processing I, honing their skills and techniques in fine woodworking. They will deepen their understanding of tool usage, both manual and powered, while gaining expertise in material utilization. Moreover, students will engage in collaborative group projects that encompass

various manufacturing processes, culminating in individual or team projects that involve design, assembly, and finishing components.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Construction Materials Processing
LENGTH: 1 Trimester (may be repeated up to three times)

### Construction Technology

This course is designed to give students an introduction to traditional building trades and is the second class in the Construction pathway. Students will participate in individual and/or group project(s) built throughout the semester. The small 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. Hands-on experience includes a review of the traditional building trades, and also a focus on building science and current best practices.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Intro to ACE
LENGTH: 1 Trimester

### Advanced Marketing and Sales

In this course, students immerse themselves in an authentic, project-based environment with direct connections to the community. Building on the foundational concepts of the 4 Ps of Marketing (Product, Price, Place, and Promotion), students delve into advanced topics such as market research, digital marketing, and strategic planning. The course provides a comprehensive preparation for students aiming to pursue a career in the dynamic and evolving field of marketing.

GRADE LEVEL: 10-12
CATEGORY: Elective
PREREQUISITE: Marketing and Sales
LENGTH: 1 Trimester

### Entrepreneurship

In this course, aspiring entrepreneurs will embark on a comprehensive journey to acquire the diverse skills necessary for establishing and running their own business. Through hands-on activities encompassing self-exploration, market analysis, finance management, and an exploration of social and ethical responsibilities, students will gain a holistic understanding of small business ownership. The course features the creation of a personalized business plan, incorporating authentic Work Based Learning Projects, while weekly insights from local entrepreneurs in the corridor area enhance the curriculum. Students also have the opportunity to earn three hours of University of Iowa credit through this engaging and practical course.

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

### Fashion Technology

Fashion Technology is an innovative, hands-on course designed for students interested in the fashion industry and creative entrepreneurship. Students will explore fashion design fundamentals while learning on cutting-edge fashion technology, including digital design tools and modern production techniques. A major focus of the course is personal branding, helping students develop a unique style and professional identity. Students will also learn the steps to launch their own fashion-related business, from concept development to marketing and sales. This Project-Based Learning course is co-taught with industry experts from the community, providing real-world experience and mentorship. Students will collaborate on live projects, gain networking opportunities, and build a professional portfolio.

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

### AP Cybersecurity

AP Cybersecurity is a year-long high school course that provides a broad introduction to the field of cybersecurity, closely aligning with a college-level introductory course. Students learn about common threats, vulnerabilities, and how they combine to create risk. The course explores how individuals and organizations manage and mitigate risk through defense-in-depth strategies. Students investigate vulnerabilities, attacks, mitigations, and detection measures across a variety of domains, including physical spaces, computer networks, devices, and data applications. Throughout the course, students also consider the

impact of cybersecurity on individuals, organizations, societies, and governments. Content and skills align with the National Initiative for Cybersecurity Education (NICE) Workforce Framework, preparing students for professional pathways in the cybersecurity field. This course and credential together prepare students for industry-recognized certifications such as **CompTIA Security+**, supporting their readiness for future study or entry-level positions in cybersecurity.

Grade Level: 10–12
Category: Elective
Prerequisite: None
Length: 1 Year

### Child Development 2

This course explores the fundamentals of child development from birth through school age, focusing on physical, social, emotional, and intellectual growth. Students learn about newborn and infant care, safety practices, and strategies for positive parenting. Designed for students interested in understanding children's growth, preparing for future parenting, or pursuing careers working with children, this course provides a comprehensive foundation in early childhood development and caregiving. Students will complete a 12-hour module on Child Care Essentials for Iowa State University Extension's online program, earning an Industry Recognized Credential.Additionally, this course supports students in developing a portfolio aligned with the Child Development Associate (CDA) credential, helping them document skills and knowledge for professional certification.

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

### Culinary Arts 3

This advanced course builds on the skills developed in Culinary Arts 1 and 2, guiding students in refining their expertise through advanced baking, pasta making, and a variety of specialized cooking techniques. Students expand their creativity while exploring diverse culinary creations and gaining insight into career pathways within the culinary industry. The course also integrates professional preparation as students complete the eFoodHandler training with the option to earn a three-year certification, providing them with both advanced skills and industry-recognized credentials.

GRADE LEVEL: 10-12
CATEGORY: Elective
PREREQUISITE: Culinary Arts 1 and 2
LENGTH: 1 Trimester

### Exploring Teaching

(Kirkwood CC Credit Course)
In this course, students receive an introduction to the teaching profession, offering insights into the roles and responsibilities of educators across grade levels. Students will explore fundamental teaching strategies, engage in discussions about current educational issues, and participate in classroom observations. Through hands-on experiences and reflective activities, the course helps students evaluate their interest in a future teaching career. This course meets part of the requirement for the Iowa Paraeducator Generalist Certification.

GRADE LEVEL: 11-12
CATEGORY: Arts & Sciences Elective
PREREQUISITE: None
LENGTH: Semester length (7.5 Cr)

### 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, aerospace 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. This is not a Dual Credit Class.

GRADE LEVEL: 10-12
CATEGORY: Elective
PREREQUISITE: Successful completion of Principles of Engineering (POE) or Introduction to Engineering Design (IED), and completion of Algebra 2.

LENGTH: 1 Year

### Digital Electronics

(Kirkwood CC Credit Course)

In this course, students delve into the study of electronic circuits used for processing and controlling digital signals. The DE course primarily emphasizes exposing students to combinational and sequential logic design, fostering teamwork, developing communication methods, adhering to engineering standards, and mastering technical documentation. By employing the activity-project-problem-based approach found in all PLTW courses, students will actively analyze, design, and construct digital electronic circuits, continuously refining their interpersonal skills, unleashing their creative abilities, and deepening their grasp of the design process. The course covers four main units in detail, including 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

### Civil Engineering & Architecture

(Kirkwood CC Credit Course)
In this course, students will delve into the design of both residential and commercial building projects, gaining expertise in various essential aspects. They will have the opportunity to apply their knowledge in areas including building components, structural design, energy efficiency, stormwater management, site surveys, and soil analysis. Furthermore, students will collaborate in design teams, utilizing effective communication techniques, adhering to engineering standards, and producing comprehensive technical documentation, all while harnessing professional 3D design software to create solutions for significant course projects.

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

### Intro to Engineering Design

(Kirkwood CC Credit Course)
In this course, students interested in engineering gain valuable hands-on experience in applying the "Design Process" and documentation procedures, skills that are essential for success in Project Lead the Way courses. The focus is on honing product design abilities and utilizing CAD, particularly Autodesk Fusion 360, to create models, document designs, and effectively convey concepts to clients and manufacturers via prints and presentations. Additionally, students have the opportunity to explore career prospects through field trips,

classroom visits by professionals, and job shadowing experiences, enhancing their understanding of potential career pathways in engineering.

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

### Principles of Engineering

(Kirkwood CC Credit Course)
This is a Project Lead the Way® class. In this pre-engineering course, students gain a comprehensive understanding of engineering and engineering technology, delving into various technology systems and manufacturing processes. This exploration equips them with the knowledge of how engineers and technicians employ math, science, and technology to solve engineering problems for the betterment of society. Additionally, the curriculum covers a wide range of topics, including Engineering Systems, Robotics, Strength of Materials, Power and Energy, Kinematics, Statics, Computer Programming, and Engineering for Reliability, offering a well-rounded foundation in the field.

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

### Earth and Space Science*

In this course, students are provided with the opportunity to explore the interplay between science and its relevance to society and the natural world by engaging in hands-on laboratory work and activities. The curriculum places a strong emphasis on connecting earth and space science principles to everyday interests and issues. Throughout the course, students will delve into topics such as Earth's position in the Universe, Earth's various systems, and the impact of human activities on our planet, encouraging them to adopt the role of scientists, ask questions, conduct investigations, and even design their own experiments.

GRADE LEVEL: 9-12
CATEGORY: Fulfills Science requirement
PREREQUISITE: None
LENGTH: 1 Year
*The 9th grade science course is Earth and Space Science. Students who are planning to complete four years of high school science 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 10th grade year.*

### Performance PE 1

In this course, students can expect a structured and progressive approach to high-intensity workouts and strength training. They will learn proper technique and the fundamentals of following a weight lifting program. The curriculum will encompass a range of activities, including plyometrics, tabatas, circuit training, and more, to promote lifelong fitness while also emphasizing sportsmanship and cooperative learning. Additionally, the course will underline the benefits of regular physical activity in managing stress, offering students a holistic approach to their well-being.

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

### Performance PE 2

In this course, students will have the opportunity to apply the knowledge they gained from Performance PE 1. They will advance through various aspects of physical fitness, including strength training, conditioning, cross-training, circuit training, and the acquisition of more complex skills and movements at an accelerated pace. Additionally, the course will emphasize the importance of nutrition and recovery principles while fostering sportsmanship and cooperative learning. Ultimately, students will gain insight into how regular physical activity and holistic health practices can help them effectively manage stress and improve their physical and mental health.

GRADE LEVEL: 9-12
CATEGORY: Fulfills 1 trimester of PE requirement
PREREQUISITE: Performance PE 1
LENGTH: 1 Trimester

### Firefighter Cadet Program

The Junior Firefighter Program is an elective course for eleventh and twelfth-grade students designed to provide foundational knowledge and supervised training in fire and emergency services. Through a formal partnership between the school district and North Liberty Fire Department, students will develop valuable life skills, including teamwork, leadership, responsibility, and commitment, within a safe and controlled environment. Utilizing the "Firefighter Skills and Hazardous Materials Response" curriculum approved by the Fire Service Training Bureau, the course prepares students to sit for both the HazMat and Firefighter I

certification exams. By participating in practical training exercises and learning directly from approved fire service personnel, students will explore the daily work of emergency responders and foster professional relationships that can build a foundation for a future career in public safety.

GRADE LEVEL: 11-12
CATEGORY: Elective
PREREQUISITE: Students must apply and be selected
LENGTH: This program spans over multiple trimesters and potentially the summer

# ONSITE KIRKWOOD OPTIONS

The following list is a comprehensive list of courses approved by Kirkwood Community College allowed to be taught on high school campuses. Not all courses listed in this section may be available in the Iowa City Community School District and/or individual high school campuses. Please review your high schools registration information for a complete list of onsite concurrent courses.

### Art Appreciation (ART-101)

Provides an overview of art from a historical, contemporary and aesthetic frame of reference. Recommended for non-Art majors.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Must meet Senior Year Plus eligibility requirements
LENGTH: 1 Semester

### Art History I (ART-203)

Introduces the history of art chronologically, from the prehistoric period in Europe to the early Renaissance. Cultivates a meaningful recognition of different styles, concepts and concerns through an analysis of selected paintings, sculpture, architecture and other mediums. Emphasizes the thematic issues prevalent in various time periods and geographic/cultural areas. Examines interpretation, concepts, theories, and comparison of styles and techniques through readings, visual presentations, lecture and discussion.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Must meet Senior Year Plus eligibility requirements
LENGTH: 1 Semester

### Art History II (ART-204)

Introduces the history of art chronologically, from the Renaissance to the 21st century. Cultivates a meaningful recognition of different styles, concepts and concerns through an analysis of selected paintings, sculpture, architecture and other mediums. Emphasizes the thematic issues prevalent in various time periods and geographic/cultural areas. Examines interpretation, concepts, theories, and comparison of styles and techniques through readings, visual presentations, lecture and discussion.

GRADE LEVEL: 9-12

CATEGORY: Elective
PREREQUISITE: Must meet Senior Year Plus eligibility requirements
LENGTH: 1 Semester

### Human Biology (BIO-154)

Examines how human form and function work together to maintain homeostatic balance, and how dysfunctions can lead to disease processes. Explores fundamental biological principles as they apply to the human body. Intended for liberal arts students.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Must meet Senior Year Plus eligibility requirements
LENGTH: 1 Semester

### Orientation to Business Professionalism (BUS-101)

Develops students' personal and professional skills in the business world. Focuses on the components of business image including professional dress, networking with business professionals, the art of handshaking, and proper dining, email and meeting etiquette. Students will create employment documents/tools and explore professional organizations. Emphasizes professionalism in the business industry with additional insight on how to be successful as a college student.

GRADE LEVEL: 9-12
CATEGORY: Elective
CO & PREREQUISITE: Must be enrolled in Future Career Prep and must meet Senior Year Plus eligibility requirements
LENGTH: 1 Trimester

### Employment Search and Workplace Success (BUS-290)

Develops the skills necessary to obtain employment (part-time, full-time and internships), and practices the skills and attitudes required for job success. Includes researching the job market and companies, practicing resume writing, job application completion, and interviewing techniques. Reviews work-place problem solving strategies and skills required to work in a diverse environment.

GRADE LEVEL: 9-12
CATEGORY: Elective
CO & PREREQUISITE: Must be enrolled in Future Career Prep and must meet Senior Year Plus eligibility requirements
LENGTH: 1 Trimester

**Professionalism: BPA (BUS-190)**
Develops and recognizes leadership and teamwork utilizing a student professional organization, Business Professionals of America (BPA). Special emphasis is placed on leadership development activities. Students are provided the opportunity to participate in state and national business competitions, earn awards, perform community service and seek local, state and national office. This course may be repeated for credit.

GRADE LEVEL: 9-12
CATEGORY: Elective
CO & PREREQUISITE: Must be a member of Business Professionals of America (BPA) and must meet Senior Year Plus eligibility requirements
LENGTH: 1 Trimester

**Professionalism: Business Competition (BUS-192)**
Recognizes and develops leadership and teamwork skills utilizing an online, team-based simulation in a virtual environment. Prepares students for the modern digital age in business. Addresses the importance of virtual communication, collaboration, and problem-solving in future career success.

GRADE LEVEL: 9-12
CATEGORY: Elective
CO & PREREQUISITE: Must meet Senior Year Plus eligibility requirements
LENGTH: 1 Trimester

**Environmental Science (ENV-115)**
Explores major environmental issues including biotechnology, climate change, fossil fuel use, human population growth, land utilization, pollution, resource management, soil degradation, and toxicology. Teaches concepts from a variety of the sciences. Practices synthesizing environmental concepts, analyzing facts, and forming hypotheses.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Must meet Senior Year Plus eligibility requirements
LENGTH: 1 Semester

**Intermediate French I (FLF-241)**
Develops the 5 Cs (communication, cultures, connections, comparisons and communities) by providing intensive practice in the fundamental communicative skills of listening, speaking,

reading and writing, with a methodic study of different cultural contexts and a review of the basic grammar. Examines the cultural practices and products of francophone countries.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Must meet Senior Year Plus eligibility requirements
LENGTH: 1 Semester

**Intermediate French II (FLF-242)**
Continues to develop the 5 Cs (communication, cultures, connections, comparisons and communities) by expanding the repertoire of realia (movies, readings, Internet explorations) and class activities. Provides continuous practice in developing the communicative skills and encourages group discussion about everyday subjects as well as the practices and products of francophone cultures.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Intermediate French I and must meet Senior Year Plus eligibility requirements
LENGTH: 1 Semester

**Intermediate Spanish I (FLS-241)**
Provides practice of language beyond the controlled situations of the elementary course. Develops fundamental skills in Spanish through activities aimed at expressing original ideas and conveying messages in correct Spanish with the aid of authentic resources. Class activities offer advanced training in listening, speaking, reading, writing, and understanding the cultures of Spanish-speaking countries. Grammar study includes a review of previously introduced topics as well as new ones.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Elementary Spanish II and must meet Senior Year Plus eligibility requirements
LENGTH: 1 Semester

**Intermediate Spanish II (FLS-242)**
Enables students to continue to develop all communication skills, using primarily materials from literature, contemporary newspapers and magazines aimed at providing a better understanding of the Hispanic and Latin cultures and pertinent current issues. Class activities

include pronunciation exercises, some grammar review and class discussion that promotes spontaneous conversation.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Intermediate Spanish I and must meet Senior Year Plus eligibility requirements
LENGTH: 1 Semester

**Forms of Literature: Nonfiction (LIT-204)**
Focuses on literary nonfiction - essays, memoirs, profiles or criticism - that aspires not only to inform, but also to employ language aesthetically and prompt reflection on experience. Students will explore, through literature and critical theory, the following questions: What is literary nonfiction? How are works of literary nonfiction crafted, read and interpreted? How are they different from and similar to other forms of literary expression?

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Composition I and must meet Senior Year Plus eligibility requirements
LENGTH: 1 Trimester

**Forms of Literature: Fiction (LIT-206)**
Explores, through short stories, novels, films and critical theory, the following questions: What is fiction? What are its common elements? How does understanding these elements and the ways they interconnect affect our understanding of how fiction is crafted, read and interpreted? How is fiction different from or similar to other forms of literary expression?

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Composition I and must meet Senior Year Plus eligibility requirements
LENGTH: 1 Trimester

**Sanitation and Safety (HCM-100)**
Studies basic principles of bacteriology, food borne illness, sanitation, workplace safety, personal hygiene, food security, health regulations and inspections. Emphasizes the importance of sanitary equipment and facilities, and pest control. Students must complete the National Restaurant Association Educational Foundation certification exam to pass this course

GRADE LEVEL: 10-12

CATEGORY: Elective
CO-REQUISITE: Must also be enrolled in Culinary Art III and must meet Senior Year Plus eligibility requirements
LENGTH: 1 Trimester

**Nutrition (HCM-231)**
Reviews basic nutritional concepts in relation to current health concerns and the food service industry. Practices recipe and menu modification to improve nutrition. Prepares for the national certification test by the National Restaurant Association Educational Foundation.

GRADE LEVEL: 10-12
CATEGORY: Elective
CO-REQUISITE: Must meet Senior Year Plus eligibility requirements
LENGTH: 1 Trimester

**Introduction to Hospitality Industry (HCM-321)**
Reviews basic nutritional concepts in relation to current health concerns and the food service industry. Practices recipe and menu modification to improve nutrition. Prepares for the national certification test by the National Restaurant Association Educational Foundation.

GRADE LEVEL: 10-12
CATEGORY: Elective
CO-REQUISITE: Must meet Senior Year Plus eligibility requirements
LENGTH: 1 Trimester
Develops an understanding of the hospitality industry and career opportunities

**U.S. History to 1877 (HIS-151)**
Studies the colonial experience, the revolutionary period and 19th century history to the Civil War and Reconstruction. Includes political, economic and social history of this period as well as the development of American thought.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Must meet Senior Year Plus eligibility requirements
LENGTH: 1 Trimester

**U.S. History Since 1877 (HIS-152)**
Studies the period from Reconstruction to the present. Emphasis is upon industrialization and its impact; the development of a strong federal government; an aggressive foreign policy; and a growing involvement in an international economy.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Must meet Senior Year Plus eligibility requirements
LENGTH: 1 Trimester

**Statistics (MAT-156)**
Focuses on descriptive statistics (mean, median, mode, standard deviation and variance) and introduces correlation and linear regression. Emphasizes inferential statistics and probability distributions as applied to confidence intervals, hypothesis testing of means and proportions, and applications to business and other fields.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Qualifying placement score and must meet Senior Year Plus eligibility requirements
LENGTH: 1 Semester

**Calculus I (MAT-210)**
Introduction to limits, differentiation, applications of the derivative, the definite and indefinite integral including The Fundamental Theorem of Calculus, and an introduction to differential equations.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Qualifying placement score and must meet Senior Year Plus eligibility requirements
LENGTH: 1 Semester

**Mathematics and Society (MAT-115)**
Explores practical applications in statistics, probability, social choice theory, graph theory, and financial mathematics. Other topics may be included. A mathematics course for Liberal Arts majors in quantitative reasoning and problem solving.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Qualifying placement score and must meet Senior Year Plus eligibility requirements
LENGTH: 1 Trimester

### Survey of Data (MAT-607)

Introduction to limits, differentiation, applications of the derivative, the definite and indefinite integral including The Fundamental Theorem of Calculus, and an introduction to differential equations.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Qualifying placement score and must meet Senior Year Plus eligibility requirements
LENGTH: 1 Trimester

### Applied Math (MAT-772)

Introduction to limits, differentiation, applications of the derivative, the definite and indefinite integral including The Fundamental Theorem of Calculus, and an introduction to differential equations.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Must meet Senior Year Plus eligibility requirements
LENGTH: 1 Trimester

### Music Appreciation (MUS-100)

Includes study of elements and forms of music with attention to major historical periods and composers of historical significance and survey of indigenous music.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Must meet Senior Year Plus eligibility requirements
LENGTH: 1 Trimester

### Music Fundamentals (MUS-102)

Introduces the notation of pitch, rhythm, meter, scales, key signatures, intervals, and chords. Intended for students with strong interest in music but with limited or no music reading skills.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Must meet Senior Year Plus eligibility requirements
LENGTH: 1 Trimester

### Music Theory and Music Theory Lab I (MUS-120 and MUS-135)

Music Theory studies the notation of pitch and rhythm, meter, major and minor key relationships, melodic structure, intervals, triads, two-part counterpoint, the basics of four-part harmony and instrument transposition. Music Theory Lab supports the objectives in Music Theory (MUS-120) by developing skills in ear training (aural identification of scales, intervals and chords), dictation (rhythmic, melodic and harmonic), and sight singing.

GRADE LEVEL: 9-12
CATEGORY: Elective
CO & PREREQUISITE: Must be enrolled in AP Music Theory and must meet Senior Year Plus eligibility requirements
LENGTH: 1 Trimester

### Weight Training I (PEA-187)

Introduces the notation of pitch, rhythm, meter, scales, key signatures, intervals, and chords. Intended for students with strong interest in music but with limited or no music reading skills.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Must meet Senior Year Plus eligibility requirements
LENGTH: 1 Trimester

### Weight Training II (PEA-287)

Provides further experiences in weight conditioning, such as circuit training and variation in the training regime.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Must meet Senior Year Plus eligibility requirements
LENGTH: 1 Trimester

### Personal Wellness (PEH-111)

Emphasizes the importance of personal responsibility in health and wellness. Focuses on personal decision making in cardiovascular fitness, muscular fitness, nutrition and weight control, as well as aging and health. Reinforces improvement and maintaining quality of life through health and healthy decisions.

GRADE LEVEL: 9-12
CATEGORY: Elective

PREREQUISITE: Must meet Senior Year Plus eligibility requirements
LENGTH: 1 Trimester

**Introduction to Psychology (PSY-111)**
Introduces the scientific study of mental processes and behavior with emphasis on the nervous system, learning and memory, cognition, sensation and perception, motivation and emotion, personality, intelligence, stress, psychological disorders and therapy, and social influence. Stresses roles of both theory and empirical evidence in describing, explaining and predicting behavior. Encourages critical thinking about research methods and ethics.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Must meet Senior Year Plus eligibility requirements
LENGTH: 1 Trimester

**Developmental Psychology (PSY-121)**
Introduces physical, cognitive and psychosocial development from a lifespan perspective covering conception until death. Provides an introduction to major theories and classic and contemporary research, and examines normative development as impacted by genes, maturation, experience, cohort, gender, race, social class and culture. Discusses topics including developmental research methods; genetics; prenatal development; infancy; childhood; adolescence; early, middle and late adulthood; and death and bereavement.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Must meet Senior Year Plus eligibility requirements
LENGTH: 1 Trimester

**Fundamentals of Oral Communication (SPC-101)**
Studies basic communication theory and practice including communication process, interpersonal relationships, small group interaction and public speaking.

GRADE LEVEL: 9-12
CATEGORY: Elective
PREREQUISITE: Must meet Senior Year Plus eligibility requirements
LENGTH: 1 Trimester

**Exploring Careers (SDV-201)**
Provides guidance in choosing a career goal and preparing for employment. Emphasis will be placed on identifying interests, abilities, personality traits, and values, and exploring options

for careers. Teaches how to access labor market information and employment trends. Develops the skills and aptitudes necessary to obtain employment, emphasizing the development of characteristics associated with job success.

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

### Introduction to Accounting (ACC-111)

Introduces accounting principles for non-accounting majors. Includes analyzing, classifying and recording business transactions. Emphasizes understanding the complete accounting cycle and preparing financial statements, bank reconciliations and payroll.

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

### Principles of Agronomy (AFA-114)

Provides a foundation course in agronomy. Applies crop, soil, and environmental sciences in understanding agricultural systems in the world. Introduces concepts of plant, soil, tillage, pest, environmental, and sustainable aspects of crop production. Includes hands-on learning experiences.

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

### Principles of Horticulture (AGH-221)

Provides an introduction to horticulture covering the basic knowledge and skills associated with growth and development of plants including fruits, vegetables, turfgrass, and ornamentals.

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

### Survey of Animal Industry (AGS-113)

Introduces students to the various species and breeds of domestic animals and to create an understanding of the principles of food animal production, product marketing, and issues confronting the animal industry.

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

### Emerging Technology Trends (BCA-179)

Develops knowledge of multimedia and social media concepts by studying multimedia software components and social media platforms. Assessment projects are used by students for demonstration of knowledge of multimedia elements (copyright, video, graphic design, sound, animation), knowledge of tools (smart phones, tablets, digital camera, video camera, digital scanner), knowledge of editing software (sound editing, video editing, graphics editing), and knowledge of social media marketing (platforms, algorithms, content marketing, engagement data).

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

### Intermediate Computer Business Applications (BCA-213)

Extends basic knowledge of word processing, spreadsheet, email, and presentation software. Additionally extends knowledge of database as an optional self-paced module. Demonstrates proficiency at the core level of the MOS (Microsoft Office Specialist) certification.

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

### Introduction to Parametric Solid Modeling (CAD-110)

Covers basic operations for creating drawings and assemblies. Uses a software platform called Solidworks. Allows for some self-paced work, but instructor-led demonstrations and additional exercises outside the text are required.

GRADE LEVEL: 9-12

CATEGORY: Elective
PREREQUISITE: None
LENGTH: 1 Trimester

**Introduction to Parametric Solid Modeling (CAD-110)**
Covers basic operations for creating drawings and assemblies. Uses a software platform called Solidworks. Allows for some self-paced work, but instructor-led demonstrations and additional exercises outside the text are required.

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

**Introduction to 3D Printing (CAD-168)**
Introduces students to the historical factors that have helped shape manufacturing over centuries. Covers the current and emerging 3D printing applications and describes advantages and limitations of each technology. Evaluates real-life scenarios. Includes hands-on components of this class. Requires that students download and print a model, as well as create a 3D model and then make a .stl file and print it.

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

**Solidworks I (CAD-330)**
Introduces the basics of 3D parametric modeling using Solidworks. Includes creating and modifying part files, applying sketch constraints, dimension and annotating drawings, and constructing work planes, axes, and points. Covers creating assembly files.

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

**Fundamentals of Web Programming (CIS-207)**
Presents hypertext markup language and cascading style sheets for encoding Web pages. Introduces Server Side Includes and simple JavaScript for enhancing them. Emphasizes a

structured approach to page layout, coding and styling, exposing students to a variety of software tools.

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

**Architectural Plans and Specs (CON-101)**
Introduces the idea of scaled and technical drawings, including common graphic conventions. Teaches how to navigate, read, and interpret residential and commercial construction documents, including drawings, specifications, and shop drawings. Compares and contrasts residential and commercial documents. Applies digital take-off and mark-up processes.

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

**Construction Safety (CON-108)**
Provides an introduction to job safety and best practices as they pertain to the construction industry. Achieves a general philosophy of safety awareness through the study of specific hazards and case studies. Navigates OSHA regulations and personal obligations within the construction industry. Receives the OSHA 10 Construction and Adult First Aid with CPR certifications upon completion of this course.

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

**Construction Lab (CON-190)**
Provides introductory construction lab experience in a project-based environment encompassing teamwork, communication, productivity, and technical skills required for success in the design and construction industries. Performs tasks associated with light wood frame, heavy timber, plastics, and composite framing systems. Addresses personal and environmental safety requirements.

GRADE LEVEL: 9-12

CATEGORY: Elective
PREREQUISITE: CON-101 and CON-108
LENGTH: 1 Trimester

### Architectural Modeling (CON-410)

Utilizes 3D modeling software in order to explore and recreate common building units, assemblies, and materials; examine typical and best practice building assemblies; articulate common regulations and standards that limit building design and construction; create massing diagrams of various building configurations. Solidifies plan reading skills.

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

### Introduction to Early Childhood Education (ECE-103)

Provides a historical and philosophical foundation within the field of early childhood education. Includes an overview of assessment and evidence-based practices. Addresses the influences of family-centered practice, inclusion, culture and language. Explores early childhood careers.

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

### Child Health, Safety, and Nutrition (ECE-133)

Focuses on evidence-based concepts in the fields of health, safety and nutrition, and their relationship to the growth and development of the young child ages birth to eight. Blends current theory with problem solving, practical applications and assessments. Includes collaboration with families and assesses the role of culture, language and ability on health, safety and nutrition decisions in early childhood settings.

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

### Child Growth and Development (ECE-170)

Reviews typical and atypical development of children from conception to adolescence in all developmental domains. Examines interactions between child, family and society within a variety of community and cultural contexts and how each impacts the developing child. Examines theories and evidence-based practices associated with understanding and supporting children.

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

### Survey of Graphic Communications (GRA-101)

Introduces the graphic communication industry, including graphic design and typography principles, traditional layout and design techniques, electronic/traditional publishing, and Internet design basics. Introduces the fundamental processes used in the graphic communication industry. Covers two-dimensional design concepts and production preparation. Explores current graphic design computer applications, as well as the Apple OS and its interaction with printers, servers and design support.

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

### Project Management Basics (MGT-121)

Defines project management and examines the role of the project manager. Emphasizes on-the-job project management knowledge areas and processes. Practical applications and case studies are used to reinforce and apply concepts to real life situations.

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

### Introduction to Entrepreneurship (MGT-300)

Examines the feasibility of a new business concept and the fundamentals of organizing a small business. Students measure their potential as an entrepreneur, identify business opportunities, examine entry strategies, understand the advantages and disadvantages of buying a business and evaluate the value of that business. Focuses on realizing business

strengths, weaknesses, opportunities and threats. Implements the planning process through feasibility and business plans.

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

### Personal Finance

In this course, students will delve into the realm of Personal Finance, a comprehensive process encompassing the planning of spending, financing, and investment strategies aimed at enhancing financial well-being and independence. The curriculum offers an exploration of vital financial concepts, including budgeting, tax planning, retirement planning, estate planning, insurance, financing, and investing, while also equipping learners with actionable strategies tailored to each of these areas. By the course's conclusion, participants will be well-versed in managing their finances effectively and securing their financial future.

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

### Introduction to Business

In this course, students delve into the realms of American and global business, gaining insights into the fundamental aspects of business operations. The curriculum is designed to provide a comprehensive understanding of the economic, social, and political influences that impact the success of businesses, offering students a holistic view of the business environment. By exploring these critical facets, participants will be better equipped to comprehend the complexities of operating a business in both domestic and international contexts.

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

### Behavior Management

This course introduces high school students to effective behavior management strategies for use in educational settings. It covers techniques for creating positive learning environments, addressing challenging behaviors, and promoting student engagement. Through

role-playing and case studies, students will practice applying these skills in scenarios they may encounter as future educators.

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

### Exploring Teaching

In this course, students receive an introduction to the teaching profession, offering insights into the roles and responsibilities of educators across grade levels. Students will explore fundamental teaching strategies, engage in discussions about current educational issues, and participate in classroom observations. Through hands-on experiences and reflective activities, the course helps students evaluate their interest in a future teaching career. This course meets part of the requirement for the Iowa Paraeducator Generalist Certification.

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

### Foundations of Education

Examines American education from historical, philosophical, and sociological perspectives. Discusses challenges and issues in education in the context of school organization, politics, funding, curriculum, professionalism, legal issues, and effective school and teacher characteristics.

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

### Information Computing

This course presents the basic concepts of information systems and computer literacy. The course incorporates theory as well as hands-on practice, which includes working with Microsoft Office spreadsheets, Word Processing, Presentations, and Database Management Systems (DBMS). The course is designed to prepare students for Microsoft Office Specialist certifications, highly regarded industry-recognized credentials that demonstrate proficiency in a specific Microsoft Office application. Successful completion of this course will equip

students with valuable skills and potential certifications that are highly sought after by employers in today's technology-driven job market.

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

### Computer Science Principles

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. In this course, students collaborate in teams to cultivate computational thinking and problem-solving skills, focusing on creativity and excitement about the computing field rather than mastering a single programming language. Utilizing Python® as a primary tool and incorporating various platforms and languages, the course encompasses diverse projects, such as app development, data visualization, cybersecurity, and simulation, aiming to foster programming expertise and explore the intricacies of the Internet.

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

### Composition I

In this course, students work on developing expository writing skills with a specific emphasis on organizing ideas, incorporating supporting details, refining style, expanding vocabulary, and honing library research skills. The focus is on enhancing the ability to effectively communicate through written expression, covering aspects such as structure, evidence, and the utilization of research resources. The course aims to provide students with a foundation in expository writing that can be applied across various academic contexts.

GRADE LEVEL: 12
CATEGORY: Fulfills English 12 for 1.5 Trimesters
PREREQUISITE: English 10 ; KCC PREREQUISITE required 2.8 GPA
LENGTH: 1 Trimester

### Composition II

In this course, students learn the precise and responsible use of research tools, emphasizing critical analysis of reading materials and consideration of the audience and self when communicating content. The focus is on developing the ability to construct effective and ethical arguments through written communication, fostering skills in research, analysis, and

persuasive writing. The course aims to enhance students' proficiency in crafting well-supported and thoughtfully constructed written arguments.

GRADE LEVEL: 12
CATEGORY: Fulfills English 12 for 1.5 Trimesters
PREREQUISITE: Composition I
LENGTH: 1 Trimester

### Public Speaking

Studies the fundamentals of public speaking, emphasizing the process of speech preparation and delivery

GRADE LEVEL: 9-12
CATEGORY: Fulfills English 12 requirement for 1.5 trimesters
PREREQUISITE: Must meet Senior Year Plus eligibility requirements
LENGTH: 1 Trimester

### How College Works

In this course, students delve into the exploration of their individual strengths and the development of strategies to reinforce personal responsibility, while also focusing on college readiness, academic success strategies, and the formulation of career readiness goals. The curriculum highlights distinctions between high school and college expectations, aiding students in identifying suitable college programs or majors and appropriate career paths. Additionally, the course provides support in taking and utilizing placement tests for college admission, as well as imparting knowledge on personal financial management.

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