

KLEIN INDEPENDENT SCHOOL DISTRICT

Catalog for Incoming 9th Grade Students 2024 Graduates



HIGH SCHOOL COURSE CATALOG

EFFECTIVE 2020-2021
FOR ENTERING FRESHMAN

www.promise2purpose.net

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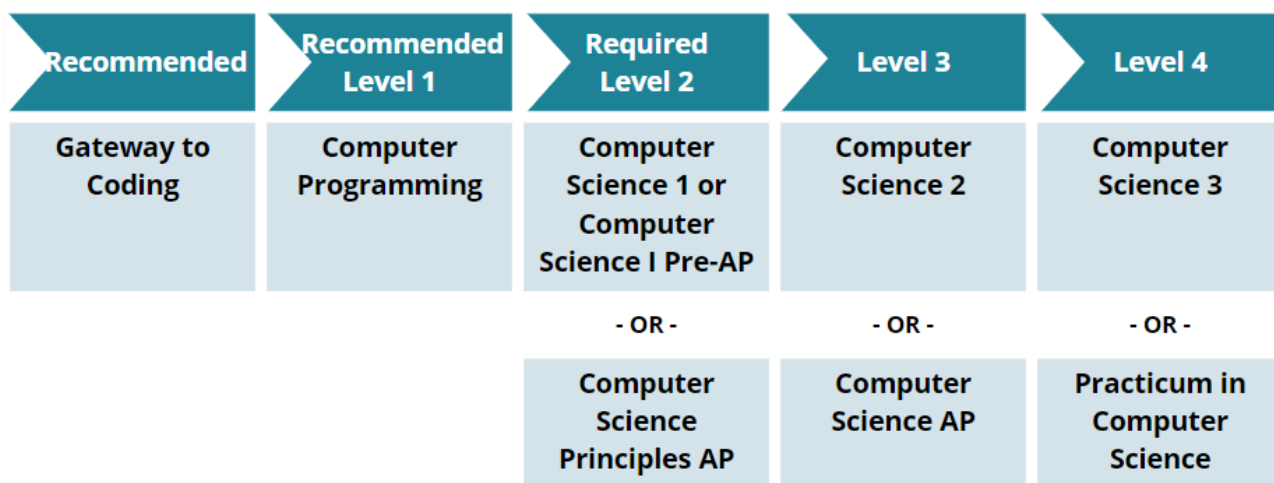
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STEM Endorsement

Computer Science & Algorithms Pathway



STEM ENDORSEMENT



The Computer Science & Algorithms Pathway is affiliated with the Cybersecurity Pathway.

GATEWAY TO CODING

KISD #: 9489J18 PEIMS: N1303758
 Grades: 7 – 8 0.5 Credit
 Prerequisite: None

Students will design and develop a physical computing device, interactive art installation, and plan and develop code for microcontrollers that bring their physical designs to life. Students will also computationally analyze and develop solutions to authentic problems through mobile app development. Students will customize their experience by choosing a problem that interests them from the areas of health, environment, emergency preparedness, education, community service, and school culture.

Required Fee/Materials: Yes

COMPUTER PROGRAMMING

KISD #: 914818 PEIMS: 13027600
 Grades: 7-9 1 Credit
 Prerequisite: None

Computer programming is a part of every industry. Students will acquire knowledge of structured programming techniques and concepts appropriate to developing executable programs and creating appropriate documentation. Students will analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as related to computer programming.

Required Fee/Materials: Yes

COMPUTER SCIENCE 1

KISD #: 4900 PEIMS: 03580200
 Grades: 9-11 1 Credit
 Prerequisite: Algebra 1 and comfortable with uses of functional notation such as $f(x) = x + 2$ and $f(x) = g(h(x))$

Get familiar with the concepts and tools of computer science as you learn a subset of the Java programming language. Learn what variables, objects, and arrays are in the context of object-oriented programming. You'll do hands-on work to develop algorithms, write code, test and correct error in computer programs that solve problems or accomplish tasks to a given scenario.

Required Fee/Materials: Yes

Advanced Grade Points: Yes

COMPUTER SCIENCE 1 PRE-AP

KISD #: 4900Q PEIMS: 03580200
 Grades: 9-11 1 Credit
 Prerequisite: Algebra 1 and comfortable with uses of functional notation such as $f(x) = x + 2$ and $f(x) = g(h(x))$

Get familiar with the concepts and tools of computer science as you learn a subset of the Java programming language. Learn what variables, objects, and arrays are in the context of object-oriented programming. You'll do hands-on work to develop algorithms, write code, test and correct error in computer programs that solve problems or accomplish tasks to a given scenario.

Required Fee/Materials: Yes
Advanced Grade Points: Yes

COMPUTER SCIENCE PRINCIPLES AP

KISD #: 4902 **PEIMS:** A3580300
Grades: 9-10 **1 Credit**
Prerequisite: Algebra 1

Computer science is everywhere, from our smartphones and video games to engineering, medicine, and much more. This course can help you understand how computing and technology shape the world around you. You'll work on your own and as part of a team to creatively address real-world issues using the tools and processes of computation. Performance tasks will be submitted to an AP Digital Portfolio. All students are encouraged to take the College Board AP Exam to potentially earn college credit.

Required Fee/Materials: Yes
Advanced Grade Points: Yes
Note: Completion of AP Computer Science Principles will satisfy one LOTE requirement for graduation.

COMPUTER SCIENCE 2

KISD #: 4903 **PEIMS:** 03580300
Grades: 10-12 **1 Credit**
Prerequisite: Computer Science 1 or Computer Science 1 Pre-AP

Students will work with more complex concepts and tools of the Java programming language. You'll do hands-on work to develop algorithms, write code, test and correct errors in computer programs that solve problems or accomplish tasks to a given scenario.

Required Fee/Materials: Yes
Advanced Grade Points: Yes
Note: Completion of Computer Science 1 and Computer Science 2 will satisfy the LOTE graduation requirement.

COMPUTER SCIENCE AP

KISD #: 4901 **PEIMS:** A3580110(MATH)
A3580120(LOTE)
Grades: 10-12 **2 Credits (1 period)**
Recommended Prerequisite: Computer Science 1 or Computer Science 1 Pre-AP

Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language. AP Computer Science A is equivalent to a first-semester, college-level course in computer science. All students are encouraged to take the College Board AP Exam to potentially earn college credit.

Required Fee/Materials: Yes
Advanced Grade Points: Yes
Note: Completion of AP Computer Science Higher Level satisfies one advanced mathematics requirement and one LOTE requirement for graduation.

COMPUTER SCIENCE 3

KISD #: 4906 **PEIMS:** 03580350
Grades: 11-12 **1 Credit**
Prerequisite: Computer Science 2 or Computer Science 1 Pre-AP

Students will work with more complex concepts and tools of the Java programming language. You'll do hands-on work to develop algorithms, write code, test and correct errors in computer programs that solve problems or accomplish tasks to a given scenario.

Required Fee/Materials: Yes
Advanced Grade Points: Yes

PRACTICUM IN COMPUTER SCIENCE

KISD #: 946018 **PEIMS:** 13037400
Grades: 12 **2 Credits**
Prerequisite: Computer Science 2 or Computer Science 1 Pre-AP

This course is a project-based course for students to research and develop high-level programming language concepts. Students will build portfolios, solve problems, and create products for school and community. Design principles and software skill sets should be interwoven into real products.

Required Fee/Materials: Yes
Advanced Grade Points: Yes

IB COMPUTER SCIENCE SL

KISD #: 3426

PEIMS: I3580200

Grades: 11-12

1 Credit

Prerequisite: One credit of computer science

IB computer science explores the breadth and depth of computers and technology related issues. Students will be expected to write programs using an object-oriented approach. Students will be able to trace algorithms in Java and be able to evaluate software designs and algorithms written in Java. Time spent on the program independent assessment is an important part of the course and will be utilized to demonstrate mastery of the programming language of the course (Java). The student will:

- Explore the designing, testing, describing and backing up of computer systems.
- Develop logical thinking in designing software and solving logic problems.
- Discuss the design, variations, problems and uses of networked systems.
- Utilize Object Oriented Design in their programs using the Java programming language.
- Discuss the repercussions of shared computer resources, databases, and human interaction with technology.
- Utilize advanced computer science concepts covered include trees, arrays, recursion, Boolean logic and lists.

Required Fee/Materials: Yes

Advanced Grade Points: Yes

Note: Completion of IB Computer Science SL will satisfy one LOTE requirement for graduation.

IB COMPUTER SCIENCE HL

KISD #: 3428

PEIMS: I3580310(MATH)
I3580320(LOTE)

Grades: 11-12

2 Credits (1 period)

Prerequisite: One credit of computer science

IB computer science explores the breadth and depth of computers and technology related issues. Students will be expected to write programs using an object-oriented approach. Students will be able to trace algorithms in Java and be able to evaluate software designs and algorithms written in Java. Time spent on the program independent assessment is an important part of the course and will be utilized to demonstrate mastery of the programming language of the course (Java). The student will:

- Explore the designing, testing, describing and backing up of computer systems.
- Develop logical thinking in designing software and solving logic problems.
- Discuss the design, variations, problems and uses of networked systems.
- Utilize Object Oriented Design in their programs using the Java programming language.
- Discuss the repercussions of shared computer resources, databases, and human interaction with technology.
- Utilize advanced computer science concepts covered include trees, arrays, recursion, Boolean logic and lists.

Required Fee/Materials: Yes

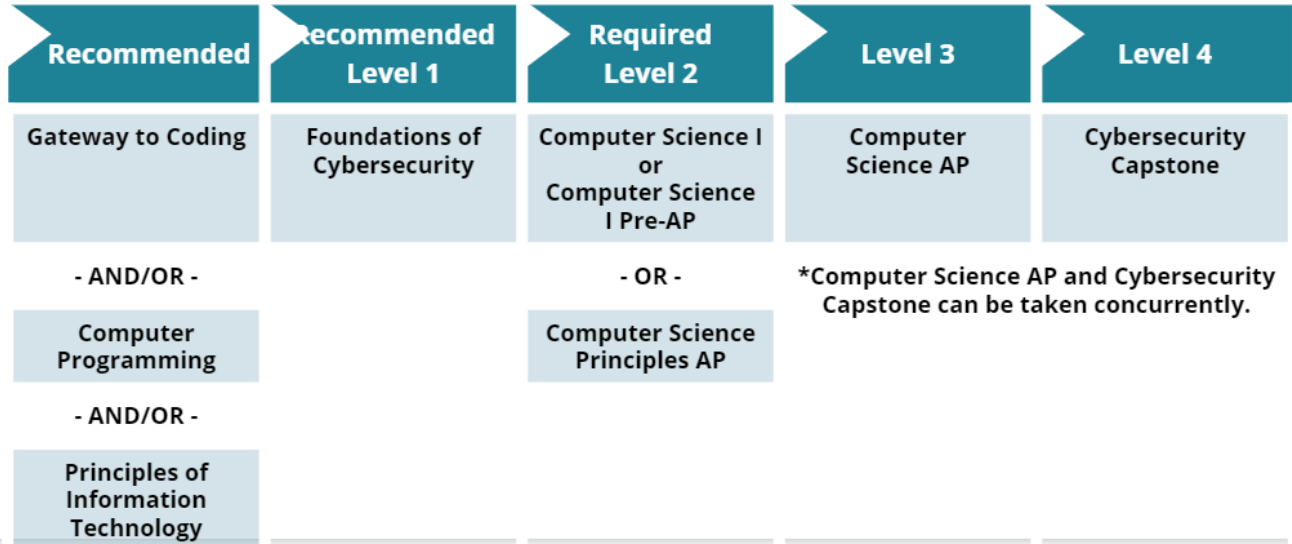
Advanced Grade Points: Yes

Note: Completion of IB Computer Science Higher Level will satisfy one advanced mathematics requirement and one LOTE requirement for graduation.

Cybersecurity Pathway



STEM ENDORSEMENT



The Cybersecurity Pathway is affiliated with the Computer Science & Algorithms Pathway.

GATEWAY TO CODING

KISD #: 9489J18 PEIMS: N1303758
 Grades: 7 – 8 0.5 Credit
 Prerequisite: None

Students will design and develop a physical computing device, interactive art installation, and plan and develop code for microcontrollers that bring their physical designs to life. Students will also computationally analyze and develop solutions to authentic problems through mobile app development. Students will customize their experience by choosing a problem that interests them from the areas of health, environment, emergency preparedness, education, community service, and school culture.

Required Fee/Materials: Yes

COMPUTER PROGRAMMING

KISD #: 914818 PEIMS: 13027600
 Grades: 7-9 1 Credit
 Prerequisite: None

Computer programming is a part of every industry. Students will acquire knowledge of structured programming techniques and concepts appropriate to developing executable programs and creating appropriate documentation. Students will analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as related to computer programming.

Required Fee/Materials: Yes

PRINCIPLES OF INFORMATION TECHNOLOGY

KISD #: 9332J18 PEIMS: 13027200
 Grades: 8 1.0 Credit/High School Credit
 Prerequisite: None

Students will develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students will use word processing, spreadsheet, presentation and desktop publishing software applications to enhance reading, writing, computing, communication and reasoning skills. Students will also have opportunities to develop keyboarding skills or enhance their keying accuracy and speed.

Required Fee/Materials: Yes

FOUNDATIONS OF CYBERSECURITY

KISD #: 946218 PEIMS: 3580850
 Grades: 9-10 1 Credit
 Prerequisite: None

Students will develop the knowledge and skills needed to explore fundamental concepts related to the ethics, laws, and operations of cybersecurity. As computing has become more sophisticated, so too have the abilities of malicious agents looking to penetrate networks and seize private information. By evaluating prior incidents, cybersecurity professionals have the ability to craft appropriate responses to minimize disruptions to corporations, governments, and individuals. Students will examine trends and operations of cyberattacks, threats, and vulnerabilities. Students will review and explore security policies designed to mitigate risks.

COMPUTER SCIENCE 1

KISD #: 4900 **PEIMS:** 03580200
Grades: 9-11 **1 Credit**
Prerequisite: Algebra 1 and comfortable with
uses of functional notation such as
 $f(x) = x + 2$ and $f(x) = g(h(x))$

Get familiar with the concepts and tools of computer science as you learn a subset of the Java programming language. Learn what variables, objects, and arrays are in the context of object-oriented programming. You'll do hands-on work to develop algorithms, write code, test and correct error in computer programs that solve problems or accomplish tasks to a given scenario.

Required Fee/Materials: Yes
Advanced Grade Points: Yes

COMPUTER SCIENCE 1 PRE-AP

KISD #: 4900Q **PEIMS:** 03580200
Grades: 9-11 **1 Credit**
Prerequisite: Algebra 1 and comfortable with
uses of functional notation such as
 $f(x) = x + 2$ and $f(x) = g(h(x))$

Get familiar with the concepts and tools of computer science as you learn a subset of the Java programming language. Learn what variables, objects, and arrays are in the context of object-oriented programming. You'll do hands-on work to develop algorithms, write code, test and correct error in computer programs that solve problems or accomplish tasks to a given scenario.

Required Fee/Materials: Yes
Advanced Grade Points: Yes

COMPUTER SCIENCE PRINCIPLES AP

KISD #: 4902 **PEIMS:** A3580300
Grades: 9-10 **1 Credit**
Prerequisite: Algebra 1

Computer science is everywhere, from our smartphones and video games to engineering, medicine, and much more. This course can help you understand how computing and technology shape the world around you. You'll work on your own and as part of a team to creatively address real-world issues using the tools and processes of computation. Performance tasks will be submitted to an AP Digital Portfolio. All students are encouraged to take the College Board AP Exam to potentially earn college credit.

Required Fee/Materials: Yes
Advanced Grade Points: Yes
Note: Completion of AP Computer Science Principles will satisfy one LOTE requirement for graduation.

COMPUTER SCIENCE AP

KISD #: 4901 **PEIMS:** A3580110(MATH)
A3580120(LOTE)
Grades: 10-12 **2 Credits (1 period)**
Recommended Prerequisite: Computer Science 1 or
Computer Science 1 Pre-AP

Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language. AP Computer Science A is equivalent to a first-semester, college-level course in computer science. All students are encouraged to take the College Board AP Exam to potentially earn college credit.

Required Fee/Materials: Yes
Advanced Grade Points: Yes

Note: Completion of AP Computer Science Higher Level satisfies one advanced mathematics requirement and one

CYBERSECURITY CAPSTONE

KISD #: 4901 **PEIMS:** 3580855
Grades: 12 **1 Credit**
Recommended Prerequisite: Computer Science 1 or
Computer Science 1 Pre-AP

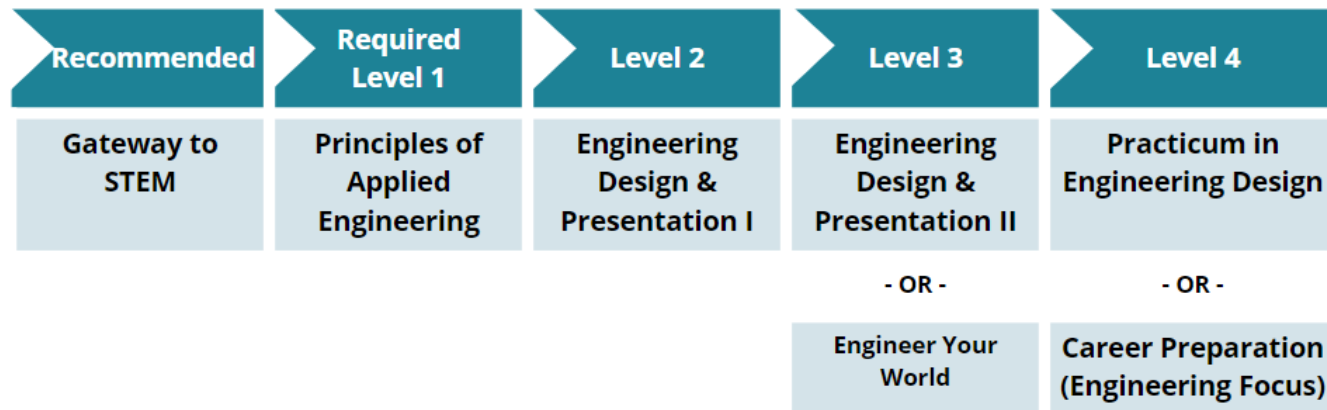
The Cybersecurity Capstone course will give students the opportunity to explore and examine trends and operations of cyberattacks, threats, and vulnerabilities. Students will develop security policies to mitigate risks. The skills obtained in this course prepare students for additional study toward industry certification. Cybersecurity Capstone may serve as a culminating course in this field of study.

Advanced Grade Points: Yes

Engineering Design Pathway



STEM ENDORSEMENT



CERTIFICATIONS: Certified SOLIDWORKS Associate-Academic, Autodesk Certified Professional or User AutoCAD, Autodesk Certified Professional or User Inventor

GATEWAY TO STEM

*CONCURRENT ENROLLMENT REQUIRED IN:

Semester 1: Design, Modeling and Automation

KISD #: 9487J18 PEIMS: N1303756
Grades: 8 0.5 Credit/High School Credit

Semester 2: Applied Science and Technology

KISD #: 9488J18 PEIMS: N1303757
Grades: 8 0.5 Credit/High School Credit

Prerequisite: None

Recommended Prerequisite: Strong Math and Science Skills

This course consists of three units of STEM related content from the Project Lead the Way (PLTW) curriculum. The units to be explored are Design and Modeling, Automation and Robotics and Magic of Electrons. Students work in teams to design orthotics and toys for children with disabilities. Using design software, students create a virtual image of their designs as well as capture research and ideas in an engineering notebook. Through hands-on projects, students explore electricity, the behavior and parts of atoms, and sensing devices. Students use a robotics platform to design, build, and program real-world objects such as traffic lights, toll booths, and robotic arms.

Required Fee/Materials: Yes

PRINCIPLES OF APPLIED ENGINEERING

KISD #: 947018 PEIMS: 13036200
Grades: 9-11 1.0 Credit

Recommended Prerequisite: Strong Math Skills

Students will develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects. Students will use Autodesk AutoCAD and other related software applications and a variety of computer hardware to complete assignments and projects.

Required Fee/Materials: Yes

ENGINEERING DESIGN & PRESENTATION I

KISD #: 947418 PEIMS: 13036500
Grades: 10-12 1.0 Credit
Prerequisite: Principles of Applied Engineering

Students will demonstrate knowledge and skills of the design process as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects.

Required Fee/Materials: Yes

Industry Certification: Autodesk AutoCAD, Autodesk Inventor

ENGINEERING DESIGN & PRESENTATION II

KISD #: 936818 PEIMS: 13036500
Grades: 11-12 2.0 Credits
Prerequisite: Engineering Design and Presentation I

Students will demonstrate knowledge and skills of the design process as it applies to engineering fields using multiple software applications and tools necessary to prototypes. Students will use a variety of computer hardware, such as laser engravers and CNC machines, and software applications to complete assignments and projects.

Required Fee/Materials: Yes

Industry Certification: Certified SolidWorks Associate – Academic, Autodesk AutoCAD, Autodesk Inventor, Autodesk Fusion 360

ENGINEER YOUR WORLD

KISD #: 949018 **PEIMS:** N1303752
Grades: 11-12 **1.0 Credit**
Prerequisite: **Engineering Design and Presentation I**

Developed by a team of University of Texas faculty and NASA engineers, Engineer Your World engages students in authentic engineering practices in a project-based environment. Students complete a series of socially relevant design challenges to develop engineering design skills and habits of mind. This course covers the breadth of engineering fields and professions so that students can make informed decisions about pursuing engineering.

Required Fee/Materials: Yes
Advanced Grade Points: Yes

PRACTICUM IN ENGINEERING DESIGN

KISD #: 936918 **PEIMS:** 13037400
Grades: 12 **2.0 Credits**
Prerequisite: **Engineering Design and Presentation II**

Students will design complex and detailed products and prototypes related to various categories of engineering. This course will be conducted in a classroom/laboratory setting. Student may also complete training for additional industry certifications.

Required Fee/Materials: Yes
Advanced Grade Points: Yes
Industry Certification: Certified SolidWorks Associate – Academic, Autodesk AutoCAD, Autodesk Inventor, Autodesk Fusion 360

CAREER PREPARATION (Engineering Focus)

KISD #: 967718 **PEIMS:** 12701300
Grades: 11-12 **2.0 Credits**

EXTENDED PRACTICUM IN CAREER PREP

KISD #: 967618 **PEIMS:** 12701305
Grades: 11-12 **3.0 Credit**
Prerequisite: **At least 16 years of age and valid work documentation (such as a Social Security card) and Approval Process**

A work-based learning program that combines occupationally related classroom instruction and work-based experiences. Students are expected to be enrolled in the career preparation program the entire school year and must have reliable transportation to/from the training site each day. A student not employed at an approved training station prior to the ninth day of school shall have a schedule change removing him/her from the Career Preparation program. The student must be in a paid position and may not be employed by a relative. The student will receive an employer evaluation each grading period as one component of the nine week average.

Approval Process: Yes
Transportation Needed: Yes

Business & Industry Endorsement

Applied Agriculture Engineering Pathway



BUSINESS & INDUSTRY ENDORSEMENT

Recommended Level 1	Required Level 2	Level 3	Level 4
Principles of Agriculture, Food & Natural Resources	Agricultural Mechanics & Metal Technologies	Agricultural Structures Design & Fabrications/Lab	Practicum in Applied Agriculture Engineering
CERTIFICATIONS: American Welding Society - D1.1 & D1.9			

PRINCIPLES OF AGRICULTURE, FOOD, & NATURAL RESOURCES

KISD #: 904018 PEIMS: 13000200
 Grades: 9-10 1.0 Credit
 Prerequisite: None

Student will be gain introductory knowledge of all aspects in agriculture including agricultural career development, leadership, communications, personal finance, mechanized agriculture, soils, plants, animals, agricultural construction, food science, and supervised agricultural experience programs.

AGRICULTURAL MECHANICS & METAL TECHNOLOGIES

KISD #: 906118 PEIMS: 130023
 Grades: 10-12 1.0 Credit
 Prerequisite: None

Students will be introduced to basic theory and gain specialized skills in agricultural mechanics. Skills to be developed include identification and safe use of tools, carpentry, electricity, plumbing, masonry, fencing, painting, hot and cold metalworking, and welding processes. Construction of projects will be included in this course.

Required Fee/Materials: Yes

AGRICULTURAL STRUCTURES DESIGN & FABRICATION/LAB

KISD #: 907918 PEIMS: 13002310
 Grades: 11-12 2.0 Credits
 Prerequisite: Agriculture Mechanics and Metal Tech

Students will learn the basic principles of agricultural mechanics, including: blueprint reading and implementation, building site location, CNC drafting and application, carpentry and construction, electrical and plumbing systems, concrete and masonry construction, metal construction and large project building.

Required Fee/Materials: Yes

PRACTICUM IN AGRICULTURAL MECHANICS

KISD #: 908618 PEIMS: 13002500
 Grades: 12 2.0 Credits
 Prerequisite: Ag Equipment Design and Ag Structures Design and Fabrication

Students will participate in a laboratory-oriented course designed teach the basic principles of agricultural mechanics, including: blueprint reading and implementation, building site location, CNC drafting and application, carpentry and construction, electrical and plumbing systems, concrete and masonry construction, metal construction and large project building.

Required Fee/Materials: Yes

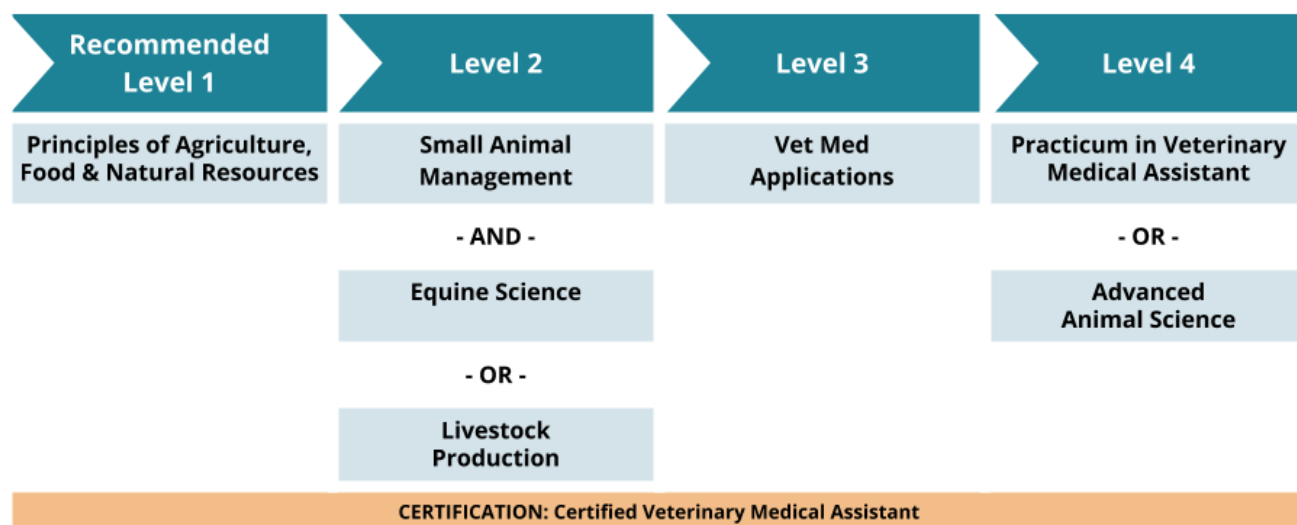
Advanced Grade Points: Yes

Industry Certification: AWS D1.1 Welding

Animal Science / Veterinary Medical Assistant Pathway



BUSINESS & INDUSTRY ENDORSEMENT



PRINCIPLES OF AGRICULTURE, FOOD, & NATURAL RESOURCES

KISD #: 904018 PEIMS: 13000200
 Grades: 9-10 1.0 Credit
 Prerequisite: None

Student will be gain introductory knowledge of all aspects in agriculture including agricultural career development, leadership, communications, personal finance, mechanized agriculture, soils, plants, animals, agricultural construction, food science, and supervised agricultural experience programs.

EQUINE SCIENCE

KISD #: 907218 PEIMS: 13000500
 Grades: 10-12 0.5 Credit
 Prerequisite: None

Students will identify career opportunities, industry expectation, and attain general knowledge of horses, mules and donkeys. Areas of study shall include but are not limited to: breed identification, anatomy and physiology, nutrition, reproduction, diseases, parasites, proper handling, training, confirmation, and selection of horses.

SMALL ANIMAL MANAGEMENT

KISD #: 907718 PEIMS: 13000400
 Grades: 10-12 0.5 Credit
 Prerequisite: None

Students will be provided with opportunities to learn, reinforce, and apply information in a variety of settings in the areas of small animal, systems/business and associations. Subject areas in this course to be covered are but not limited to: small mammals, amphibians, reptiles, birds, dogs, cats and species specific information. Study will also highlight ownership, hazards, and welfare of small animals.

LIVESTOCK PRODUCTION

KISD #: 906918 PEIMS: 13000300
 Grades: 10-12 1.0 Credit
 Prerequisite: None

Students will develop knowledge and skills pertaining to the nutrition, reproduction, health and management of domestic livestock. Study of animal systems, animal restraint, business management, and careers are included.

VETERINARY MEDICAL APPLICATIONS

KISD #: 907418 **PEIMS:** 13000600
Grades: 11-12 **1.0 Credit**
Prerequisite: **Small Animal and Equine Science or**
 Livestock Production

Students will be provided opportunities to demonstrate proper knowledge and skills in the veterinary medicine industry. Topics to be covered in this course are, but not limited to veterinary practices and knowledge as they relate to both large and small animal species. Subject areas include: animal behavior, communication, species/breed information, diseases/disorders, parasites, clinical examinations, imaging equipment, hematology, hospital procedures, and surgical assisting procedures.

ADVANCED ANIMAL SCIENCE

KISD #: 907018 **PEIMS:** 13000700
Grades: 11-12 **1.0 Credit/4th Science Credit Option**
Prerequisite: **Biology and Chemistry or**
 Integrated Physics and Chemistry
 (IPC); Algebra I and Geometry and
 Small Animal and Equine Science or
 Livestock Production or Vet Med
 Applications

Students will gain an advanced understanding of animal science. Included in the course are experiments, laboratory explorations, and the study of reproduction, breeding, genetics, anatomy, physiology, nutrition, health, and the marketing and harvesting of domestic livestock.

Required Fee/Materials: Yes
Advanced Grade Points: Yes

PRACTICUM VETERINARY MEDICAL ASSISTING

KISD #: 907618 **PEIMS:** 13002500
Grades: 11-12 **2.0 Credits**
Prerequisite: **Veterinary Medical Applications**
 and Approval Process

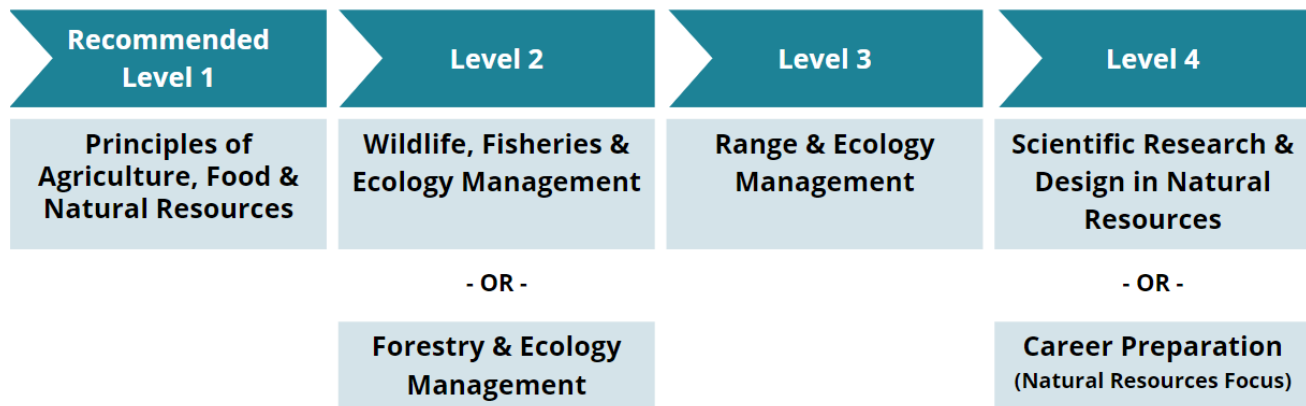
Students will participate in a continuation of the Veterinary Medical Applications course gaining more in-depth knowledge in animal anatomy, animal disease, treatment techniques, lab procedures, emergency procedures, and clinical operations. Students will be required to participate in clinical rotations, gaining hands-on experiences working in various veterinary assistant positions.

Required Fee/Materials: Yes
Advanced Grade Points: Yes
Industry Certification: Certified Veterinary Assistant (CVA)
Transportation Needed: Yes
Approval Process: Yes

Environmental & Natural Resources Pathway



BUSINESS & INDUSTRY ENDORSEMENT



PRINCIPLES OF AGRICULTURE, FOOD, & NATURAL RESOURCES

KISD #: 904018 PEIMS: 13000200
 Grades: 9-10 1.0 Credit
 Prerequisite: None

Student will gain introductory knowledge of all aspects in agriculture including agricultural career development, leadership, communications, personal finance, mechanized agriculture, soils, plants, animals, agricultural construction, food science, and supervised agricultural experience programs.

WILDLIFE, FISHERIES & ECOLOGY MANAGEMENT

KISD #: 904618 PEIMS: 13001500
 Grades: 10-12 1.0 Credit
 Prerequisite: None

Students will examine the importance of wildlife and outdoor recreation with emphasis on using wildlife, fish and natural resources and their management. Hunter, boater, and angler safety instruction are components of this class. Research into occupational opportunities and identification and laws associated with game, non-game, fur-bearing and fish species are included.

FORESTRY AND WOODLAND ECOSYSTEMS

KISD #: 905818 PEIMS: 13001700
 Grades: 10-12 1.0 Credit
 Prerequisite: None

Students will examine current management practices for forestry and woodlands. Special emphasis is given to management as it relates to ecological requirements and how these practices impact the environment. Includes exploration of careers associated with the forestry system, tree identification, calculating tree harvest, and a study of the forest ecosystem.

RANGE ECOLOGY & MANAGEMENT

KISD #: 904718 PEIMS: 13001600
 Grades: 10-12 1.0 Credit
 Prerequisite: None

Students will gain knowledge of the management and ecology aspects of rangelands. Instruction will include the study and development of technical skills in renewable natural resources, range plants, ecosystems, water cycles, range conditions, carrying capacities, livestock management, wildlife management, and research. Information and safe working practices, recordkeeping, career exploration, and leadership will be included.

SCIENTIFIC RESEARCH AND DESIGN IN NATURAL RESOURCES

KISD #: PEIMS: 13037220
 Grades: 12 1.0 Credit
 Prerequisite: Range Ecology and Management

Students will explore the components of any rigorous scientific or engineering program of study from the problem identification, investigation design, data collection, data analysis, formulation, and presentation of the conclusions in relation to natural resources.

CAREER PREPARATION I (Natural Resources Focus)**KISD #:** 967718**PEIMS:** 12701300**Grades:** 11-12**2.0 Credits****EXTENDED PRACTICUM IN CAREER PREP I****KISD #:** 967618**PEIMS:** 12701305**Grades:** 11-12**3.0 Credit****Prerequisite:****At least 16 years of age and valid work documentation (such as a Social Security card) and Approval Process**

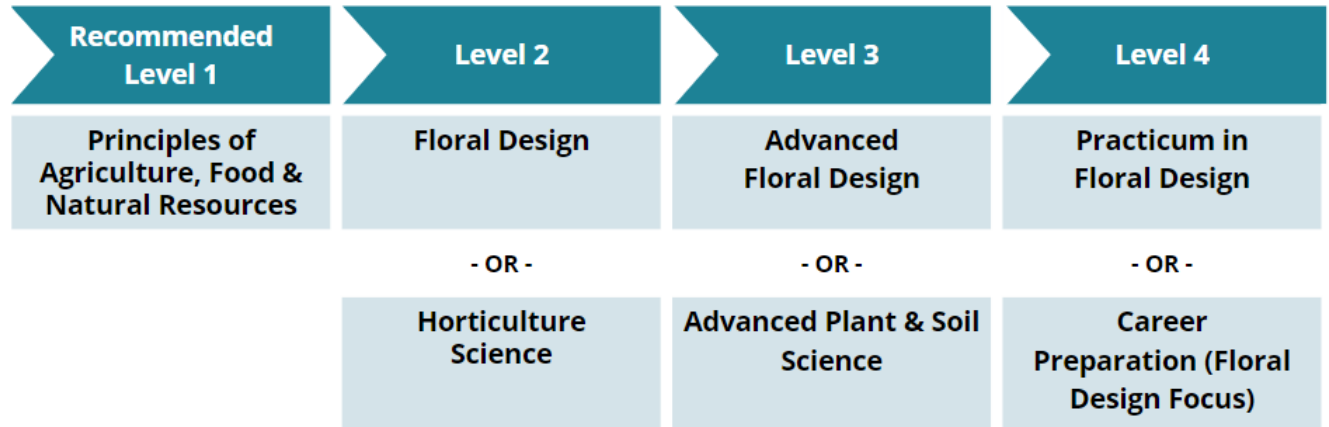
A work-based learning program that combines occupationally related classroom instruction and work-based experiences. Students are expected to be enrolled in the career preparation program the entire school year and must have reliable transportation to/from the training site each day. A student not employed at an approved training station prior to the ninth day of school shall have a schedule change removing him/her from the Career Preparation program. The student must be in a paid position and may not be employed by a relative. The student will receive an employer evaluation each grading period as one component of the nine week average.

Approval Process: Yes**Transportation Needed:** Yes

Plant & Floral Science Pathway



BUSINESS & INDUSTRY ENDORSEMENT



CERTIFICATIONS: TSFA Knowledge Content, TSFA Level I, TSFA Level II

PRINCIPLES OF AGRICULTURE, FOOD, & NATURAL RESOURCES

KISD #: 904018 **PEIMS:** 13000200
Grades: 9-10 **1.0 Credit**
Prerequisite: None

Student will gain introductory knowledge of all aspects in agriculture including agricultural career development, leadership, communications, personal finance, mechanized agriculture, soils, plants, animals, agricultural construction, food science, and supervised agricultural experience programs.

FLORAL DESIGN

KISD #: 905318 **PEIMS:** 13001800
Grades: 10-12 **1.0 Credit/Fine Arts Credit Option**
Prerequisite: None

Students will develop and examine floral design in relation to arrangement of flowers, foliage, and related plant materials for interior locations. This course incorporates business practices and careers in the floral industry. Students will be responsible for purchasing materials or assessed a fee associated with this course.

Required Fee/Materials: Yes
Industry Certification: Texas State Floral Association (TSFA) Level 1

HORTICULTURE SCIENCE

KISD #: 905018 **PEIMS:** 13002000
Grades: 10-12 **1.0 Credit**
Prerequisite: None

Students will participate in a laboratory oriented course designed to develop skills in the production of greenhouse/nursery plants and the maintenance of plant growth and propagation structures. The course emphasizes production of fruit, nut, and vegetable crops.

ADVANCED FLORAL DESIGN

KISD #: 905718 **PEIMS:** N1300270
Grades: 11-12 **1.0 Credit**
Prerequisite: Floral Design

In this course, students build on the knowledge from the Floral Design course and are introduced to more advanced floral design concepts, with an emphasis on specialty designs and specific occasion planning. This course focuses on building skills in advanced floral design and providing students with a thorough understanding of the design elements and planning techniques used to produce unique specialty floral designs that support the goals and objectives of a specific occasion or event.

Required Fee/Materials: Yes
Industry Certification: Texas State Floral Association (TSFA) Level 2

ADVANCED PLANT & SOIL SCIENCE

KISD #: 907118 **PEIMS:** 13002100
Grades: 11-12 **1.0 Credit/4th Science Credit Option**
Prerequisite: Refer to Pathway Flowchart and Biology, Integrated Physics and Chemistry, Chemistry, or Physics

Students will study the exploration of principles related to plant production and the management of soils as related to agriculture. Included in the course are experiments, laboratory explorations, and the study of soil and plant relationships that affect the production of food and fiber.

Advanced Grade Points: Yes

PRACTICUM IN FLORAL DESIGN

KISD #: 905218 **PEIMS:** 13002500

Grades: 12 **2.0 Credits**

Prerequisite: **Floral Design**

Students will participate in a laboratory-oriented course designed to develop the skills used in various aspects of the Floral Design industry. The major focus is preparing individuals to perform common floral design skills. The course emphasizes on running and operating a floral design business as well as the TSFA (Texas State Floral Association) Level 2 Certification.

Required Fee/Materials: Yes

Advanced Grade Points: Yes

Industry Certification: Texas State Floral Association (TSFA)
Level 2

CAREER PREPARATION I (Floral Design Focus)

KISD #: 967718 **PEIMS:** 12701300

Grades: 11-12 **2.0 Credits**

EXTENDED PRACTICUM IN CAREER PREP I

KISD #: 967618 **PEIMS:** 12701305

Grades: 11-12 **3.0 Credit**

Prerequisite: **At least 16 years of age and valid
work documentation (such as a
Social Security card) and Approval
Process**

A work-based learning program that combines occupationally related classroom instruction and work-based experiences. Students are expected to be enrolled in the career preparation program the entire school year and must have reliable transportation to/from the training site each day. A student not employed at an approved training station prior to the ninth day of school shall have a schedule change removing him/her from the Career Preparation program. The student must be in a paid position and may not be employed by a relative. The student will receive an employer evaluation each grading period as one component of the nine week average.

Approval Process: Yes

Transportation Needed: Yes

Architectural Design Pathway



BUSINESS & INDUSTRY ENDORSEMENT

Required Level 1	Required Level 2	Level 3	Level 4
Principles of Architecture	Architectural Design I	Architectural Design II	Practicum in Architectural Design

- OR -

Career Preparation
(Architecture Focus)

CERTIFICATION: Autodesk Certified Professional or User Revit Architecture, Autodesk Certified Professional or User AutoCAD

PRINCIPLES OF ARCHITECTURE

KISD #: 948118 PEIMS: 13004210
Grades: 9-11 1.0 Credit
Prerequisite: None

Students will gain knowledge of the various fields of architecture, interior design, and construction management. This course includes communication of architecture related assignments through computer graphics, modeling, and presentations. Students will use a variety of computer hardware and software applications to complete assignments and projects.

Required Fee/Materials: Yes

ARCHITECTURAL DESIGN I

KISD #: 947218 PEIMS: 13004600
Grades: 10-12 1.0 Credit
Prerequisite: Principles of Architecture

Students will gain knowledge and skills needed to enter a career in architecture or construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, or landscape architecture. This course includes the knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scale models for commercial or residential architectural purposes.

Required Fee/Materials: Yes

Industry Certification: Autodesk AutoCAD, Autodesk Revit

ARCHITECTURAL DESIGN II

KISD #: 947318 PEIMS: 13004700
Grades: 11-12 2.0 Credits
Prerequisite: Architectural Design I

This course includes the advanced knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scale models for commercial or residential architectural purposes.

Required Fee/Materials: Yes

Industry Certification: Autodesk Revit

PRACTICUM IN ARCHITECTURAL DESIGN

KISD #: 947518 PEIMS: 13004800
Grades: 12 2.0 Credits
Prerequisite: Architectural Design II

Students will participate in a course that promotes independent study which may include internships and professional mentorships.

Required Fee/Materials: Yes

Advanced Grade Points: Yes

CAREER PREPARATION I (Architecture Focus)**KISD #:** 967718**PEIMS:** 12701300**Grades:** 11-12**2.0 Credits****EXTENDED PRACTICUM IN CAREER PREP I****KISD #:** 967618**PEIMS:** 12701305**Grades:** 11-12**3.0 Credit****Prerequisite:****At least 16 years of age and valid work documentation (such as a Social Security card) and Approval Process**

A work-based learning program that combines occupationally related classroom instruction and work-based experiences. Students are expected to be enrolled in the career preparation program the entire school year and must have reliable transportation to/from the training site each day. A student not employed at an approved training station prior to the ninth day of school shall have a schedule change removing him/her from the Career Preparation program. The student must be in a paid position and may not be employed by a relative. The student will receive an employer evaluation each grading period as one component of the nine week average.

Approval Process: Yes**Transportation Needed:** Yes

Construction Technology Pathway



BUSINESS & INDUSTRY ENDORSEMENT

Recommended Level 1	REQUIRED Level 2	Level 3	Level 4
Principles of Construction	Construction Technology I	Construction Technology II	Practicum in Construction Technology

PRINCIPLES OF CONSTRUCTION

KISD #: 961618 PEIMS: 13004220
 Grades: 9-10 1.0 Credit
 Prerequisite: None

Students will develop a solid foundation for entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools.

Note: Offered at Klein Forest High School

CONSTRUCTION TECHNOLOGY I

KISD #: 961818 PEIMS: 13005100
 Grades: 10-12 2.0 Credits
 Prerequisite: None

Students will gain knowledge and skills needed to enter the workforce as carpenters or building maintenance supervisors. Students will acquire knowledge and skills in safety, tool usage, building materials, codes, and framing.

Required Fee/Materials: Yes

Note: Offered at Klein Forest High School

CONSTRUCTION TECHNOLOGY II

KISD #: 962018 PEIMS: 13005200
 Grades: 11-12 2.0 Credits
 Prerequisite: Construction Technology I

Students will gain advanced knowledge and skills needed to enter the workforce as carpenters, building maintenance technicians, or supervisors. Students will build on the knowledge base from Construction Technology I and are introduced to exterior and interior finish out skills.

Required Fee/Materials: Yes

Note: Offered at Klein Forest High School

PRACTICUM IN CONSTRUCTION TECHNOLOGY

KISD #: 961718 PEIMS: 13005250
 Grades: 12 2.0 Credits
 Prerequisite: Construction Technology II

Students will continue to build skills needed to enter the workforce in a construction related field. This course is a classroom/laboratory based.

Required Fee/Materials: Yes

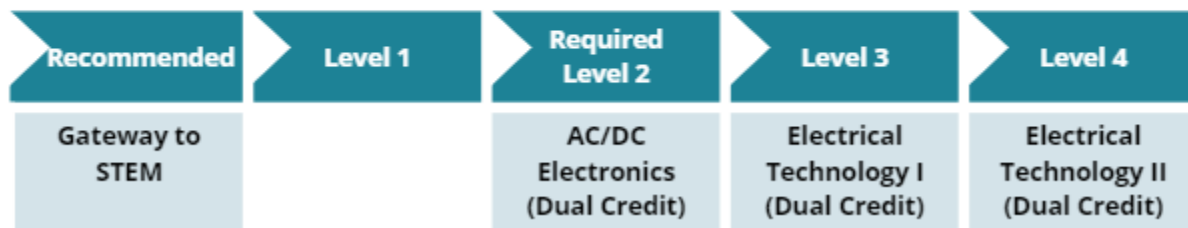
Advanced Grade Points: Yes

Note: Offered at Klein Forest High School

Electrical Technology Pathway



BUSINESS & INDUSTRY ENDORSEMENT



GATEWAY TO STEM

***CONCURRENT ENROLLMENT REQUIRED IN:**

Semester 1: Design, Modeling and Automation

KISD #: 9487J18

PEIMS: N1303756

Grades: 8

0.5 Credit/High School Credit

Semester 2: Applied Science and Technology

KISD #: 9488J18

PEIMS: N1303757

Grades: 8

0.5 Credit/High School Credit

Prerequisite:

None

Recommended Prerequisite: Strong Math and Science Skills

This course consists of three units of STEM related content from the Project Lead the Way (PLTW) curriculum. The units to be explored are Design and Modeling, Automation and Robotics and Magic of Electrons. Students work in teams to design orthotics and toys for children with disabilities. Using design software, students create a virtual image of their designs as well as capture research and ideas in an engineering notebook. Through hands-on projects, students explore electricity, the behavior and parts of atoms, and sensing devices. Students use a robotics platform to design, build, and program real-world objects such as traffic lights, toll booths, and robotic arms.

Required Fee/Materials: Yes

AC/DC ELECTRONICS DUAL CREDIT

KISD #: 9640DC18

PEIMS: 13036800

Grades: 10

1.0 Credit

Prerequisite:

Approval Process

AC/DC Electronics focuses on the basic electricity principles of alternating current/direct current (AC/DC) circuits. Students will demonstrate knowledge and applications of circuits, electronic measurement, and electronic implementation. Students will use a variety of computer hardware and software applications to complete assignments and projects.

Required Fee/Materials: Yes

Advanced Grade Points: Yes

Dual Credit Correlation: ELPT 1321, ELPT 1311

Note: Offered at Klein Forest High School

ELECTRICAL TECHNOLOGY I DUAL CREDIT

KISD #: 9605DC18

PEIMS: 13005600

Grades: 11

1.0 Credit

Prerequisite:

AC/DC Electronics Dual Credit

Recommended Prerequisite: Strong Math and Reading skills

Students will gain knowledge and skills needed to enter the workforce as an electrician or building maintenance supervisor, prepare for a postsecondary degree in a specified field of construction or construction management, or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment, and the reading of electrical drawings, schematics, and specifications.

Required Fee/Materials: Yes

Advanced Grade Points: Yes

Dual Credit Correlation: ELPT 1325, ELPT 1329, ELPT 1315

Note: Offered at Klein Forest High School

ELECTRICAL TECHNOLOGY II DUAL CREDIT

KISD #: 9606DC18

PEIMS: 13005700

Grades: 12

2.0 Credits

Prerequisite:

Electrical Technology I Dual Credit

Students will gain advanced knowledge and skills needed to enter the workforce as an electrician, a building maintenance technician, or a supervisor; prepare for a postsecondary degree in a specified field of construction or construction management; or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment, alternating current and direct current motors, conductor installation, installation of electrical services, and electric lighting installation. Students will complete coursework at the Lone Star College-Creekside Campus.

Required Fee/Materials: Yes

Advanced Grade Points: Yes

Dual Credit Correlation: ELPT 2325, ELPT 1345, DFTG 2307

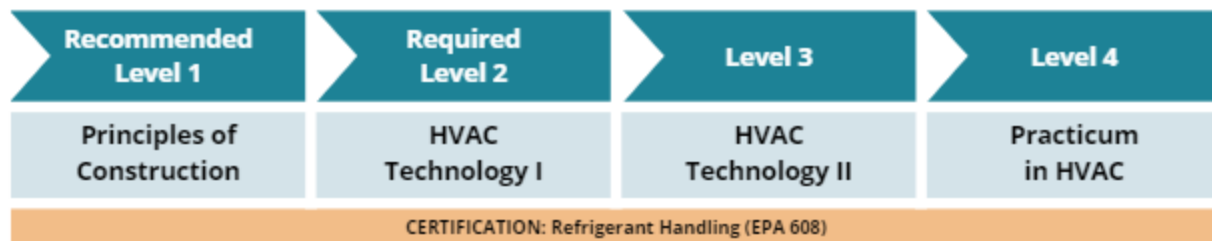
Note: Offered at Klein Forest High School

Pathway College Credential: Electrical Technology Level I Certificate Lone Star College

HVAC & Refrigeration Technology Pathway



BUSINESS & INDUSTRY ENDORSEMENT



PRINCIPLES OF CONSTRUCTION

KISD #: 961618 **PEIMS:** 13004220
Grades: 9-10 **1.0 Credit**
Prerequisite: None

Students will develop a solid foundation for entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools.

Note: Offered at Klein Forest High School
 And Klein Cain High School

HVAC & REFRIGERATION TECHNOLOGY I

KISD #: 962118 **PEIMS:**
Grades: 10-11 **1.0 Credits**
Prerequisite: None

Students will gain knowledge and skills needed to enter the workforce as technicians in the HVAC and refrigeration industry or building maintenance industry. Students will acquire knowledge and skills in safety, principles of HVAC theory, use of tools, codes, and installation of HVAC and refrigeration equipment.

Required Fee/Materials: Yes
Note: Offered at Klein Cain High School

HVAC & REFRIGERATION TECHNOLOGY II

KISD #: 962318 **PEIMS:**
Grades: 11-12 **2.0 Credits**
Prerequisite: HVAC & Refrigeration Technology I

Students will gain advanced knowledge and skills needed to enter the workforce as technicians in the HVAC and refrigeration industry or building maintenance industry. Students will acquire knowledge and skills in safety, electrical theory, use of tools, codes, installation and troubleshooting of commercial equipment, duct systems and maintenance practices.

Required Fee/Materials: Yes
Industry Certification: EPA 608
Note: Offered at Klein Cain High School

PRACTICUM IN HVAC & REFRIGERATION TECHNOLOGY

KISD #: 962518 **PEIMS:** 13005250
Grades: 12 **2.0 Credits**
Prerequisite: HVAC & Refrigeration Technology II

Students will participate in a course designed to provide job-specific skills through laboratory training, job shadowing, or work situations in areas compatible with identified career goals in HVAC & Refrigeration Technology. Students will be challenged with the application of gained knowledge and skills from HVAC & Refrigeration Technology I and II.

Required Fee/Materials: Yes

Interior Design Pathway



BUSINESS & INDUSTRY ENDORSEMENT



- OR -

**Career Preparation
(Interior Design Focus)**

CERTIFICATION: Chief Architect Apprentice

PRINCIPLES OF HUMAN SERVICES

KISD #: 933118 **PEIMS:** 13024200
Grades: 7-10 **1.0 Credit**
Prerequisite: None

Students will gain the knowledge and skills related to personal human development. The course will enable students to investigate careers in the human services career cluster, including early childhood development, family and community, mental health and personal care services. Content includes decision-making, positive relationships, child development, nutrition and food production, finance, and personal grooming as it relates to personal and professional settings.

Required Fee/Materials: Yes

PRINCIPLES OF ARCHITECTURE

KISD #: 948118 **PEIMS:** 13004210
Grades: 9-11 **1.0 Credit**
Prerequisite: None

Students will gain knowledge of the various fields of architecture, interior design, and construction management. This course includes communication of architecture related assignments through computer graphics, modeling, and presentations. Students will use a variety of computer hardware and software applications to complete assignments and projects.

Required Fee/Materials: Yes

INTERIOR DESIGN I

KISD #: 936018 **PEIMS:** 13004300
Grades: 10-12 **1.0 Credits**

Recommended Prerequisite: Principles of Human Services

Students will gain knowledge of psychological, physiological, and sociological needs of individuals by enhancing the environments in which they live and work. Students will use knowledge and skills related to interior and exterior environments, construction, and furnishings to make wise consumer decisions, increase productivity, promote sustainability, and compete in industry.

Required Fee/Materials: Yes

INTERIOR DESIGN II

KISD #: 936118 **PEIMS:** 13004400
Grades: 11-12 **2.0 Credits**

Prerequisite: Interior Design I

Students will participate in a technical laboratory course that includes the application of the employability characteristics, principles, processes, technologies, communication, tools, equipment, and materials related to interior design to meet industry standards.

Required Fee/Materials: Yes

Industry Certification: Chief Architect Certified Apprentice

PRACTICUM IN INTERIOR DESIGN**KISD #:** 936218 **PEIMS:** 13004500**Grades:** 12 **2.0 Credits****Prerequisite:** Interior Design II

Students will participate in a course designed to provide job-specific skills through laboratory training, job shadowing, or work situations in areas compatible with identified career goals in interior design. In addition, students will be expected to develop knowledge and skills related to housing, furnishings, and equipment construction or equipment management and services.

Required Fee/Materials: Yes**Advanced Grade Points:** Yes**CAREER PREPARATION I (Interior Design Focus)****KISD #:** 967718 **PEIMS:** 12701300**Grades:** 11-12 **2.0 Credits****EXTENDED PRACTICUM IN CAREER PREP I****KISD #:** 967618 **PEIMS:** 12701305**Grades:** 11-12 **3.0 Credit****Prerequisite:** At least 16 years of age and valid work documentation (such as a Social Security card) and Approval Process

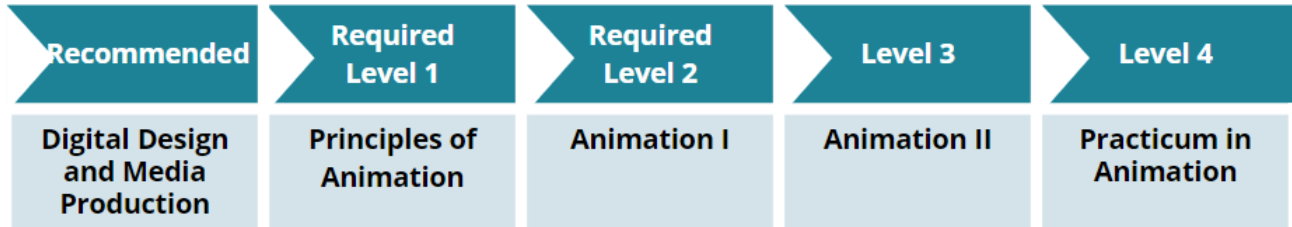
A work-based learning program that combines occupationally related classroom instruction and work-based experiences. Students are expected to be enrolled in the career preparation program the entire school year and must have reliable transportation to/from the training site each day. A student not employed at an approved training station prior to the ninth day of school shall have a schedule change removing him/her from the Career Preparation program. The student must be in a paid position and may not be employed by a relative. The student will receive an employer evaluation each grading period as one component of the nine week average.

Approval Process: Yes**Transportation Needed:** Yes

Animation Pathway



BUSINESS & INDUSTRY ENDORSEMENT



CERTIFICATION: Adobe Photoshop, Adobe Animate, Autodesk Maya, Autodesk 3DS Max

DIGITAL DESIGN AND MEDIA PRODUCTION

KISD #: 4922J

PEIMS: 03580400

Grades: 8

1.0 Credit

Recommended Prerequisite: Strong reading and comprehension skills and ability to work independently

The Digital Design and Media Production (DDMP) class meets in a computer lab where students will obtain hands-on experience working with a variety of media tools (graphic/image, audio and video) to design multimedia projects. Students will utilize various software applications including Adobe products such as Photoshop and Illustrator. This project based course focuses on real-world audiences as customers.

Required Fee/Materials: Yes

PRINCIPLES OF ANIMATION

KISD #: 949318

PEIMS: 13008200

Grades: 9-11

1.0 Credit

Prerequisite: None

Recommended Prerequisite: Digital Design and Media Production

Students will explore the fundamentals in regards to the field of Animation. Through the study of the history of animation and the twelve principles of animation, students will gain an understanding of animation and its application through a variety of media. Course concepts include story development, story structure, the use of story boards in animation, introductory software usage and industry standards. The students will explore different techniques, media and materials each week in class, and will be expected to take with them the essential knowledge and skills gained and apply them to a series of class exercises and projects.

Required Fee/Materials: Yes

ANIMATION I

KISD #: 947618

PEIMS: 13008300

Grades: 10-12

1.0 Credit

Prerequisite: Principles of Animation

Students will develop technical knowledge and skills needed for success in the animation industry, students will be expected to develop an understanding of the history and techniques of the animation industry. Students will use multiple software applications to complete assignments and projects.

Required Fee/Materials: Yes

Industry Certification: Adobe Photoshop, Adobe Animate Autodesk Maya, Autodesk 3DS Max

ANIMATION II & ANIMATION II LAB

KISD #: 947718

PEIMS: 13008410

Grades: 11-12

2.0 Credit

Prerequisite: Animation I

This hands-on course allows students to create, edit, and render characters, vehicles, scenes or objects and to design and produce digital animation using images, video, and audio resources. Students will learn design, design history, techniques and tools related to the production of drawings, renderings, and scaled models for commercial or residential purposes.

Required Fee/Materials: Yes

Industry Certification: Adobe Photoshop, Adobe Animate Autodesk Maya, Autodesk 3DS Max

PRACTICUM IN ANIMATION

KISD #: 949218

PEIMS: 13008450

Grades: 12

2.0 Credits

Prerequisite: Animation II and Animation II Lab

Students will continue animation design and development in a laboratory training. Students will be expected to develop an increasing understanding of the industry with a focus on applying pre-production, production, and post-production animation products in a professional environment.

Required Fee/Materials: Yes

Advanced Grade Points: Yes

Industry Certification: Adobe Photoshop, Adobe Animate Autodesk Maya, Autodesk 3DS Max

Fashion Design Pathway



BUSINESS & INDUSTRY ENDORSEMENT



- OR -

**Career Preparation
(Fashion Design Focus)**

DIGITAL DESIGN AND MEDIA PRODUCTION

KISD #: 4922J PEIMS: 03580400
Grades: 8 1.0 Credit

Recommended Prerequisite: Strong reading and comprehension skills and ability to work independently

The Digital Design and Media Production (DDMP) class meets in a computer lab where students will obtain hands-on experience working with a variety of media tools (graphic/image, audio and video) to design multimedia projects. Students will utilize various software applications including Adobe products such as Photoshop and Illustrator. This project based course focuses on real-world audiences as customers.

Required Fee/Materials: Yes

PRINCIPLES OF HUMAN SERVICES

KISD #: 933118 PEIMS: 13024200
Grades: 7-10 1.0 Credit
Prerequisite: None

Students will gain the knowledge and skills related to personal human development. The course will enable students to investigate careers in the human services career cluster, including early childhood development, family and community, mental health and personal care services. Content includes decision-making, positive relationships, child development, nutrition and food production, finance, and personal grooming as it relates to personal and professional settings.

Required Fee/Materials: Yes

FASHION DESIGN I

KISD #: 935618 PEIMS: 13009300
Grades: 10-12 1.0 Credit
Prerequisite: None

Students will participate in a laboratory course and gain the knowledge and skills related to the apparel industry and career preparation. Topics include apparel repair and alterations, managing the apparel dollar and the history of fashion. The production of fibers and fabrics, apparel care, garment construction and maintenance are also covered in this course. Quality apparel construction is addressed as it relates to consumer decision making and career preparation for the apparel industry.

Required Fee/Materials: Yes

FASHION DESIGN II & LAB

KISD #: 935918 PEIMS: 13009410
Grades: 11-12 2.0 Credit
Prerequisite: Fashion Design I

Students will participate in a laboratory course and gain the knowledge and skills related to apparel from the perspectives of personal decision making relating to the apparel industry and career preparation. Topics include apparel repair and alterations, managing the apparel dollar and the history of fashion. The production of fibers and fabrics, apparel care, garment construction and maintenance are also covered in this course. Quality apparel construction is addressed as it relates to consumer decision making and career preparation for the apparel industry.

Required Fee/Materials: Yes

PRACTICUM IN FASHION DESIGN**KISD #:** 936318**PEIMS:****Grades:** 12**2.0 Credits****Prerequisite:****Fashion Design II and Lab**

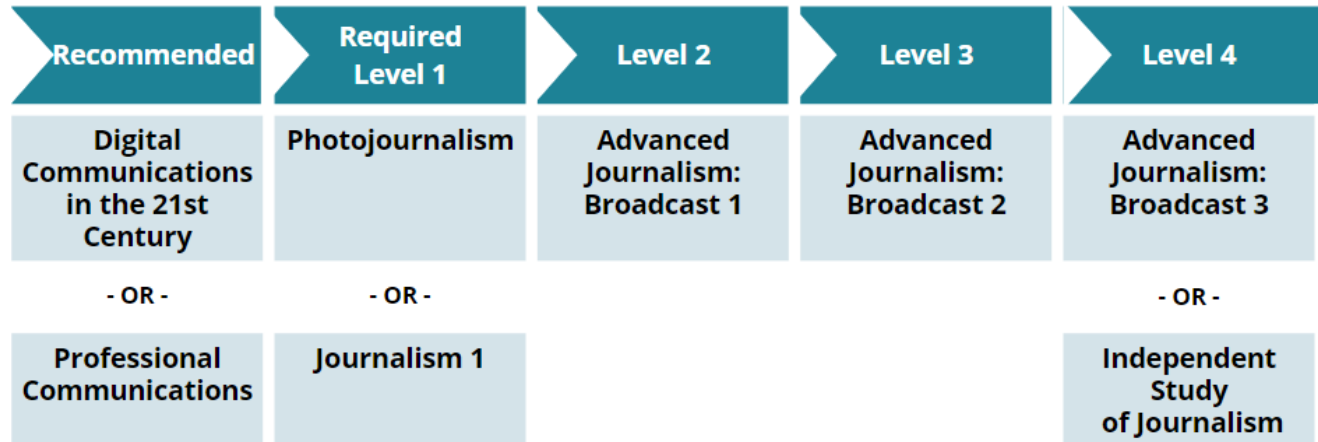
Students will demonstrate advanced skills in construction, draping, fitting and patternmaking. Students will construct detailed garments following trends in the apparel industry.

Required Fee/Materials: Yes**CAREER PREPARATION I (Fashion Design Focus)****KISD #:** 967718**PEIMS:** 12701300**Grades:** 11-12**2.0 Credits****EXTENDED PRACTICUM IN CAREER PREP I****KISD #:** 967618**PEIMS:** 12701305**Grades:** 11-12**3.0 Credit****Prerequisite:****At least 16 years of age and valid work documentation (such as a Social Security card) and Approval Process**

A work-based learning program that combines occupationally related classroom instruction and work-based experiences. Students are expected to be enrolled in the career preparation program the entire school year and must have reliable transportation to/from the training site each day. A student not employed at an approved training station prior to the ninth day of school shall have a schedule change removing him/her from the Career Preparation program. The student must be in a paid position and may not be employed by a relative. The student will receive an employer evaluation each grading period as one component of the nine week average.

Approval Process: Yes**Transportation Needed:** Yes

Broadcast Production Pathway



DIGITAL COMMUNICATION IN THE 21ST CENTURY

KISD #: 4923J PEIMS: 03580610
Grade: 8 1.0 Credit/High School Credit

Students will be expected to design and present an effective product based on well-researched issues in order to thoughtfully propose suggested solutions to authoritative stakeholders. The outcome of the process and product approach is to provide students an authentic platform to demonstrate effective application of multimedia tools within the contexts of global communication and collaborative communities and appropriately share their voices to affect change that concerns their future.

PROFESSIONAL COMMUNICATIONS

KISD #: 970018 PEIMS: 13009900
Grades: 7-10 0.5 Credit
Prerequisite: None

This is an activity based career development course in which students will develop an understanding of professional communications through exploration of the career clusters. Students will explore a variety of career options and activities including formal and informal presentations, resume writing, and job interviewing. Students will exhibit public relations skills, leadership characteristics, knowledge of the global economy, and information technology applications.

JOURNALISM 1

KISD #: 0150 PEIMS: 03230100
Grades: 9-12 1 Credit
Prerequisite: Mastery of State Writing Assessment

Journalism 1 opens the doors to the field of professional journalism by introducing students to interviewing and the reporting style of writing seen online, on TV, and in magazines and newspapers. Students will also learn about trends in graphics, design, advertising and career opportunities. This class also provides the opportunity for students to advance to serve on the yearbook or newspaper staff.

PHOTOJOURNALISM

KISD #: 0158 PEIMS: 03230800
Grades: 9-11 0.5 Credit
Prerequisite: Sponsor Approval

Students will combine the art of photography with the story-telling function of journalism. Students will learn basic camera skills, and use composition techniques and settings to improve their photography. Students will learn to enhance their photos using industry standard software. Students are required to provide their own non-automatic, DSLR camera.

ADVANCED JOURNALISM: BROADCAST 1**KISD #: 0176****PEIMS: 03231900****Grades: 9-12****1 Credit****Prerequisite:** **Journalism 1 or Photojournalism
and/or Sponsor Approval**

Students enrolled in this course will apply and use their journalistic skills for a variety of purposes. Students will learn the laws and ethical considerations that affect broadcast journalism; learn the role and function of broadcast journalism; critique and analyze the significance of visual representations; and learn to produce by creating a broadcast journalism product.

ADVANCED JOURNALISM: BROADCAST 2**KISD #: 0177****PEIMS: 03231901****Grades: 10-12****1 Credit****Prerequisite:** **Advanced Journalism: Broadcast 1
and Sponsor Approval**

Students enrolled in this course will apply and use their journalistic skills for a variety of purposes. Students will learn the laws and ethical considerations that affect broadcast journalism; learn the role and function of broadcast journalism; critique and analyze the significance of visual representations; and learn to produce by creating a broadcast journalism product.

ADVANCED JOURNALISM: BROADCAST 3**KISD #: 0178****PEIMS: 03231902****Grades: 11-12****1 Credit****Prerequisite:** **Advanced Journalism: Broadcast 2
and Sponsor Approval**

Students enrolled in this course will apply and use their journalistic skills for a variety of purposes. Students will learn the laws and ethical considerations that affect broadcast journalism; learn the role and function of broadcast journalism; critique and analyze the significance of visual representations; and learn to produce by creating a broadcast journalism product.

INDEPENDENT STUDY OF JOURNALISM**KISD #: 0156, 0157, 0159** **PEIMS: PEIMS: 03231000,
03231011, 03231022****Grades: 11-12****1 Credit****Prerequisite:** **Sponsor Approval and completion
of Advanced Journalism**

This course is for editors of the yearbook or newspaper. Students work collaboratively to plan deadlines, layout and content ideas for their designated publication.

Newspaper Production Pathway



JOURNALISM 1

KISD #: 0150

PEIMS: 03230100

Grades: 9-12

1 Credit

Prerequisite:

Mastery of State Writing Assessment

Journalism 1 opens the doors to the field of professional journalism by introducing students to interviewing and the reporting style of writing seen online, on TV, and in magazines and newspapers. Students will also learn about trends in graphics, design, advertising and career opportunities. This class also provides the opportunity for students to advance to serve on the yearbook or newspaper staff.

PHOTOJOURNALISM

KISD #: 0158

PEIMS: 03230800

Grades: 9-11

0.5 Credit

Prerequisite:

Sponsor Approval

Students will combine the art of photography with the storytelling function of journalism. Students will learn basic camera skills, and use composition techniques and settings to improve their photography. Students will learn to enhance their photos using industry standard software. **Students are required to provide their own non-automatic, DSLR camera.**

ADVANCED JOURNALISM: NEWSPAPER PRODUCTION 1

KISD #: 0194

PEIMS: 03230140

Grades: 9-12

1 Credit

Prerequisite:

Journalism 1 or Photojournalism, and/or Sponsor Approval

Students will work as a team to create an online and/or print school newspaper, covering school and community events. Students will develop real-world skills including time management, budgeting and working collaboratively while creating publications using industry standard software. **As members of the newspaper staff, students in this course will be**

expected to: participate in an advertising campaign that includes selling advertisements in the community and to report on after-school activities, as assigned.

ADVANCED JOURNALISM: NEWSPAPER PRODUCTION 2

KISD #: 0195

PEIMS: 03230150

Grades: 10-12

1 Credit

Prerequisite:

Advanced Journalism Newspaper Production 1 and Sponsor Approval

Students will work as a team to create an online and/or print school newspaper, covering school and community events. Students will further develop real-world skills including time management, budgeting and working collaboratively while creating publications using industry standard software. **As members of the newspaper staff, students in this course will be expected to: participate in an advertising campaign that includes selling advertisements in the community and to report on after-school activities, as assigned.**

ADVANCED JOURNALISM: NEWSPAPER PRODUCTION 3

KISD #: 0196

PEIMS: 03230160

Grades: 12

1 Credit

Prerequisite:

Advanced Journalism Newspaper Production 2 and Sponsor Approval

Students will work as a team to create an online and/or print school newspaper, covering school and community events. Students will refine real-world skills including time management, budgeting and working collaboratively while creating publications using industry standard software. Students will lead the staff as editors, section editors or senior staff members. **As members of the newspaper staff, students in this course will be expected to: participate in an advertising campaign that includes selling advertisements in the community and to report on after-school activities, as assigned.**

INDEPENDENT STUDY OF JOURNALISM

KISD #: 0156, 0157, 0159 **PEIMS:** 03231000, 03231011,
03231022

Grades: 11-12

1 Credit

Prerequisite:

**Sponsor Approval and completion
of Advanced Journalism**

Independent Study/Journalism is for editors of the yearbook or newspaper. Students work collaboratively to plan deadlines, layout and content ideas for their designated publication.

Yearbook Production Pathway



JOURNALISM 1

KISD #: 0150

PEIMS: 03230100

Grades: 9-12

1 Credit

Prerequisite: Mastery of State Writing Assessment

Journalism 1 opens the doors to the field of professional journalism by introducing students to interviewing and the reporting style of writing seen online, on TV, and in magazines and newspapers. Students will also learn about trends in graphics, design, advertising and career opportunities. This class also provides the opportunity for students to advance to serve on the yearbook or newspaper staff.

PHOTOJOURNALISM

KISD #: 0158

PEIMS: 03230800

Grades: 9-11

0.5 Credit

Prerequisite: Sponsor Approval

Students will combine the art of photography with the story-telling function of journalism. Students will learn basic camera skills, and use composition techniques and settings to improve their photography. Students will learn to enhance their photos using industry standard software. **Students are required to provide their own non-automatic, DSLR camera.**

ADVANCED JOURNALISM: YEARBOOK 1

KISD #: 0191

PEIMS: 03230110

Grades: 9-12

1 Credit

Prerequisite: Journalism 1 or Photojournalism and/or Sponsor Approval

Students will work as a team to create a yearbook. Students will develop real-world skills including time management, budgeting and working collaboratively while creating publications using industry standard software. **As members of the yearbook staff, students in this course will be expected to: participate in an advertising campaign that includes selling advertisements in the community and to cover after-school activities, as assigned.**

ADVANCED JOURNALISM: YEARBOOK 2

KISD #: 0192

PEIMS: 03230120

Grades: 10-12

1 Credit

Prerequisite: Advanced Journalism: Yearbook 1 and Sponsor Approval

Students will work as a team to create a yearbook. Students will further develop real-world skills including time management, budgeting and working collaboratively while creating publications using industry standard software. Students are expected to increase involvement and responsibility on staff. **As members of the yearbook staff, students in this course will be expected to: participate in an advertising campaign that includes selling advertisements in the community and to cover after-school activities, as assigned.**

ADVANCED JOURNALISM: YEARBOOK 3

KISD #: 0193

PEIMS: 03230130

Grades: 11-12

1 Credit

Prerequisite: Advanced Journalism: Yearbook 2 and Sponsor Approval

Students will work as a team to create a yearbook. Students will refine real-world skills including time management, budgeting and working collaboratively while creating publications using industry standard software. Students will lead the staff as editors, section editors or senior staff members. **As members of the yearbook staff, students in this course will be expected to: participate in an advertising campaign that includes selling advertisements in the community and to cover after-school activities, as assigned.**

INDEPENDENT STUDY OF JOURNALISM

KISD #: 0156, 0157, 0159 **PEIMS:** 03231000, 03231011,
03231022

Grades: 11-12

1 Credit

Prerequisite:

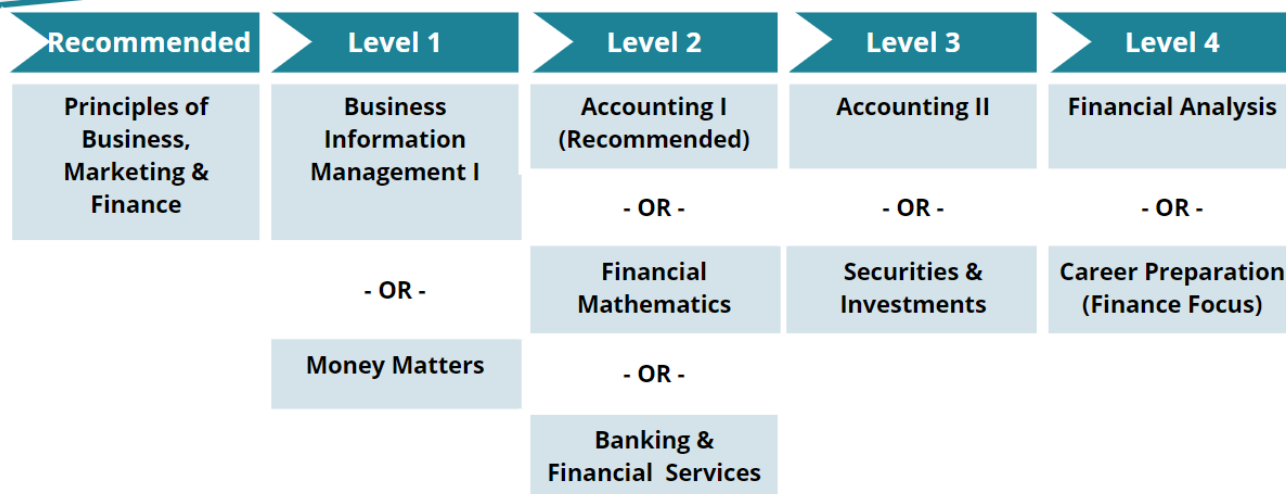
**Sponsor Approval and completion
of Advanced Journalism**

Independent Study/Journalism is for editors of the yearbook or newspaper. Students work collaboratively to plan deadlines, layout and content ideas for their designated publication.

Accounting & Financial Services Pathway



BUSINESS & INDUSTRY ENDORSEMENT



CERTIFICATION: Quickbooks Certified User

PRINCIPLES OF BUSINESS, MARKETING & FINANCE

KISD #: 916618 PEIMS: 13011200
 Grades: 8-9 1.0 Credit
 Prerequisite: None

Students gain knowledge and skills in economies, private enterprise, impact of global business, marketing and advertising, business and personal finance. A variety of engaging learning activities provide the foundation for future courses in the business, marketing, and finance clusters.

BUSINESS INFORMATION MANAGEMENT I

KISD #: 914418 PEIMS: 13011400
 Grades: 9-10 1.0 Credit
 Prerequisite: Touch System Data Entry or Principles of Information Technology (Grades 7-8)

Students will apply technical skills to address business applications such as creating word-processing documents, developing spreadsheets, formulating databases, and making an electronic presentation using Microsoft Office applications.

Required Fee/Materials: Yes

MONEY MATTERS

KISD #: 918318 PEIMS: 130116200
 Grades: 9-10 1.0 Credit
 Prerequisite: None

Special emphasis is placed on bank record management, use of credit, investing, insurance, and budgets. In addition, students are introduced to financial market and securities analysis. Current economic events indicate that it is never too early for students to gain an awareness of factors that will impact their short-term and long-term financial plans.

ACCOUNTING I

KISD #: 916218 PEIMS: 13016600
 Grades: 10-11 1.0 Credit
 Prerequisite: None

Accounting helps individuals and businesses manage their money. Accounting is one of the fastest growing and highly compensated areas of business. This course includes the complete accounting cycle, end-of-period statements, bank reconciliation, payrolls, and petty cash. Upon completion, students should be able to demonstrate an understanding of accounting principles and apply those skills to a business organization.

FINANCIAL MATHEMATICS

KISD #: 919018 **PEIMS:** 13018000
Grades: 10-11 **1.0 Credit/3rd Math Credit Option**
Prerequisite: Algebra I

Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors. Students will use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution.

BANKING AND FINANCIAL SERVICES

KISD #: 913218 **PEIMS:** 13016300
Grades: 10-11 **0.5 Credit**
Recommended Prerequisite: Principles of Business, Marketing and Finance

Do you wonder what goes on behind the scene in a bank? What do they do with all of that money? In this course you will learn about the operations, sales, and management of banking institutions. Students develop knowledge and skills in the economic, financial, technological, international, social and ethical aspects of banking to become competent consumers, employees and / or entrepreneurs.

ACCOUNTING II

KISD #: 916418 **PEIMS:** 13016700
Grades: 11-12 **1.0 Credit/3rd Math Credit Option**
Prerequisite: Accounting I

Students will engage in various managerial, financial, and operational accounting activities. Students will formulate, interpret, and communicate financial information for use in management decision making. Students will use equations, graphical representations, accounting tools, spreadsheet software, and accounting systems in real-world situations to maintain, monitor, control, and plan the use of financial resources.

Advanced Grade Points: Yes
Required Fee/Materials: Yes
Industry Certification: QuickBooks Certified User

SECURITIES AND INVESTMENTS

KISD #: 918418 **PEIMS:** 13016400
Grades: 11-12 **1.0 Credit**
Prerequisite: None

Students will understand laws and regulations in order to manage business operations and transactions in the securities industry to assist in making decisions common to the securities industry. Students will determine client needs and wants and respond through planned, personalized communication to influence purchase decisions and enhance future securities sales opportunities.

FINANCIAL ANALYSIS

KISD #: 918618 **PEIMS:** 13016800
Grades: 12 **1.0 Credit**
Prerequisite: Accounting II

Students apply technical skills to develop knowledge and skills in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students develop analytical skills by actively evaluating financial results of multiple businesses, interpreting results for stakeholders, and presenting strategic recommendations for performance improvement.

Advanced Grade Points: Yes

CAREER PREPARATION (Finance Focus)

KISD #: 967718 **PEIMS:** 12701300
Grades: 11-12 **2.0 Credits**

EXTENDED PRACTICUM IN CAREER PREP

KISD #: 967618 **PEIMS:** 12701305
Grades: 11-12 **3.0 Credit**
Prerequisite: At least 16 years of age and valid work documentation (such as a Social Security card) and Approval Process

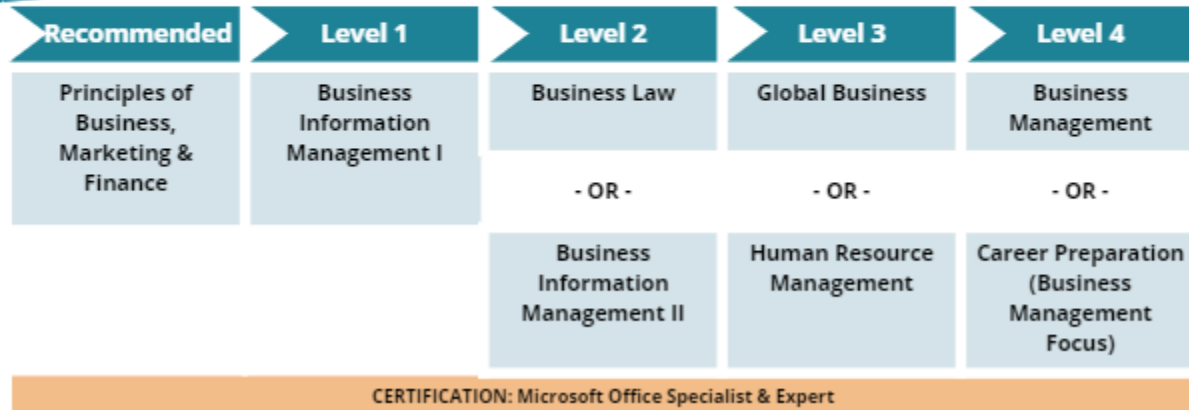
A work-based learning program that combines occupationally related classroom instruction and work-based experiences. Students are expected to be enrolled in the career preparation program the entire school year and must have reliable transportation to/from the training site each day. A student not employed at an approved training station prior to the ninth day of school shall have a schedule change removing him/her from the Career Preparation program. The student must be in a paid position and may not be employed by a relative. The student will receive an employer evaluation each grading period as one component of the nine week average.

Approval Process: Yes
Transportation Needed: Yes

Business Management Pathway



BUSINESS & INDUSTRY ENDORSEMENT



PRINCIPLES OF BUSINESS, MARKETING & FINANCE

KISD #: 916618 **PEIMS:** 13011200
Grades: 8-9 **1.0 Credit**
Prerequisite: None

Students gain knowledge and skills in economies, private enterprise, impact of global business, marketing and advertising, business and personal finance. A variety of engaging learning activities provide the foundation for future courses in the business, marketing, and finance clusters.

BUSINESS INFORMATION MANAGEMENT I

KISD #: 914418 **PEIMS:** 13011400
Grades: 9-10 **1.0 Credit**
Prerequisite: Touch System Data Entry or Principles of Information Technology (Grades 7-8)

Students will apply technical skills to address business applications such as creating word-processing documents, developing spreadsheets, formulating databases, and making an electronic presentation using Microsoft Office applications.

Required Fee/Materials: Yes

BUSINESS LAW

KISD #: 917318 **PEIMS:** 13011700
Grades: 10-12 **1.0 Credit**
Prerequisite: None

The course provides the student with foundational information about the U.S. legal system and dispute resolution, and their impact on business. The major content areas will include general principles of law, the relationship of business and the U.S. Constitution, state and federal legal systems, the relationship between law and ethics, contracts, sales, torts, agency law, intellectual property, and business law in the global context.

BUSINESS LAW DUAL CREDIT

KISD #: 9173DC18 **PEIMS:** 13011700
Grades: 10-12 **1.0 Credit**
Prerequisite: None

The course provides the student with foundational information about the U.S. legal system and dispute resolution, and their impact on business. The major content areas will include general principles of law, the relationship of business and the U.S. Constitution, state and federal legal systems, the relationship between law and ethics, contracts, sales, torts, agency law, intellectual property, and business law in the global context.

Required Fee/Materials: Yes

Advanced Grade Points: Yes

Dual Credit Correlation: BUSI 2301

BUSINESS INFORMATION MANAGEMENT II

KISD #: 915618 **PEIMS:** 13011500
Grades: 10-12 **1.0 Credit**
Prerequisite: Business Information Management I

Students will complete this course with an advanced level of proficiency in word processing, spreadsheets, presentation applications and database. Emphasis will be on Microsoft Word and Excel. Instruction will also provide a certification option in PowerPoint.

Required Fee/Materials: Yes

Advanced Grade Points: Yes

Industry Certification: Microsoft Office Specialist (Word, Excel); Microsoft Word Expert, Microsoft Excel Expert, Microsoft PowerPoint

BUSINESS INFORMATION MANAGEMENT II DUAL CREDIT

KISD #: 9156DC18 **PEIMS:** 13011500
Grades: 10-12 **1.0 Credit**
Prerequisite: Business Information Management I

Students will study computer terminology, hardware, and software related to the business environment. The focus of this advanced course is on business productivity software applications and professional behavior in computing, including word processing, spreadsheets, databases, presentation graphics, and business-oriented utilization of the Internet. Emphasis will be on Microsoft Word, Excel, Access and PowerPoint and computer based certification software.

Required Fee/Materials: Yes
Advanced Grade Points: Yes
Industry Certification: Microsoft Office Specialist (Word, Excel); Microsoft Word Expert, Microsoft Excel Expert, Microsoft PowerPoint
Dual Credit Correlation: BUSI 1305

GLOBAL BUSINESS

KISD #: 916818 **PEIMS:** 13011800
Grades: 11-12 **0.5 Credit**
Prerequisite: None

This course provides students with an understanding of various cultures, the global economy, and the international business environment. Students will explore cultures and societies, and their impact on international business activities. The content of the course provides students with an introduction to global business career opportunities.

HUMAN RESOURCE MANAGEMENT

KISD #: 918118 **PEIMS:** 13011900
Grades: 11-12 **0.5 Credit**
Prerequisite: None

Students will analyze the primary functions of human resources management, which include recruitment, selection, training, development, and compensation. Topics will incorporate social responsibility of business and industry to its employees. Students develop a foundation in the economical, financial, technological, international, social, and ethical aspects of human resources in order to become competent managers, employees, and entrepreneurs.

BUSINESS MANAGEMENT

KISD #: 912518 **PEIMS:** 13012100
Grades: 11-12 **1.0 Credit**
Prerequisite: None

Do you have what it takes to run a business? Learn the ins and outs of staffing issues. Who gets hired and who gets fired? Plan, organize, direct, and lead your business using marketing, financial, and ethical strategies and learn what it takes to make management decisions. Students will incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate management decisions.

CAREER PREPARATION (Business Management Focus)

KISD #: 967718 **PEIMS:** 12701300
Grades: 11-12 **2.0 Credits**

EXTENDED PRACTICUM IN CAREER PREP

KISD #: 967618 **PEIMS:** 12701305
Grades: 11-12 **3.0 Credit**
Prerequisite: At least 16 years of age and valid work documentation (such as a Social Security card) and Approval Process

A work-based learning program that combines occupationally related classroom instruction and work-based experiences. Students are expected to be enrolled in the career preparation program the entire school year and must have reliable transportation to/from the training site each day. A student not employed at an approved training station prior to the ninth day of school shall have a schedule change removing him/her from the Career Preparation program. The student must be in a paid position and may not be employed by a relative. The student will receive an employer evaluation each grading period as one component of the nine week average.

Approval Process: Yes
Transportation Needed: Yes

Marketing & Sales Pathway



BUSINESS & INDUSTRY ENDORSEMENT



NCIPLES OF BUSINESS, MARKETING & FINANCE

KISD #: 916618 **PEIMS:** 13011200
Grades: 8-9 **1.0 Credit**
Prerequisite: None

Students gain knowledge and skills in economies, private enterprise, impact of global business, marketing and advertising, business and personal finance. A variety of engaging learning activities provide the foundation for future courses in the business, marketing, and finance clusters.

SPORTS AND ENTERTAINMENT MARKETING

KISD #: 958818 **PEIMS:** 13034600
Grades: 9-10 **0.5**
Recommended Prerequisite: Principles of Business, Marketing & Finance

Students will gain knowledge of marketing concepts and theories that apply to sports and entertainment. This course will cover include basic marketing concepts, publicity, sponsorship, endorsements, licensing, branding, event marketing, promotions, and sports and entertainment marketing strategies.

FASHION MARKETING

KISD #: 959018 **PEIMS:** 13034300
Grades: 10-12 **0.5 Credit**
Recommended Prerequisite: Principles of Business, Marketing & Finance

Students will gain knowledge of the various business functions in the fashion industry, including the importance of fashion; knowledge of fashion history and how it relates to today's fashion, along with distinguishing among terms used in the industry. Students will gain a working knowledge of promotion, textiles, merchandising, pricing, selling, visual merchandising, and career opportunities in the fashion industry.

ENTREPRENEURSHIP

KISD #: 959418 **PEIMS:** 13034400
Grades: 11-12 **1.0 Credit**
Recommended Prerequisite: Principles of Business, Marketing & Finance

Students will learn the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

SOCIAL MEDIA MARKETING

KISD #: 959218 **PEIMS:** 13034650
Grades: 10-12 **0.5 Credit**
Recommended Prerequisite: Principles of Business, Marketing & Finance

Students will manage a successful social media presence for an organization, understand techniques for gaining customer and consumer buy-in to achieve marketing goals, and properly select social media platforms to engage consumers and monitor and measure the results of these efforts.

ADVERTISING

KISD #: 959518 **PEIMS:** 13034200
Grades: 10-12 **0.5 Credit**
Recommended Prerequisite: Principles of Business, Marketing & Finance

Students will gain knowledge of techniques used in current advertising, including print, broadcast, and digital media. The course explores the social, cultural, ethical, and legal issues of advertising, historical influences, strategies, media decision processes as well as integrated marketing communications, and careers in advertising and sales promotion.

SPORTS AND ENTERTAINMENT MARKETING II

KISD #: **PEIMS:** N1303422
Grades: 10-11 **0.5**
Prerequisite: Sports and Entertainment Marketing

Students will develop a thorough understanding of advanced marketing concepts and theories as they relate to the sports and entertainment industries. Students will investigate the components of branding, sponsorships and endorsements, as well as promotion plans needed for sports and entertainment events. The course also supports career development skills and explores career options. This course will not be offered until the 2021-2022 school year.

ADVANCED MARKETING

KISD #: **PEIMS:** 13034700
Grades: 12 **2.0**
Prerequisite: One credit of marketing courses – does NOT include Principles of Business, Marketing & Finance

In Advanced Marketing, students will gain knowledge and skills that help them become proficient in one or more of the marketing functional areas. Students will illustrate appropriate management and research skills to solve problems related to marketing. This course covers technology, communication, and customer-service skills.

CAREER PREPARATION (Marketing and Sales Focus)

KISD #: 967718 **PEIMS:** 12701300
Grades: 11-12 **2.0 Credits**

EXTENDED PRACTICUM IN CAREER PREP

KISD #: 967618 **PEIMS:** 12701305
Grades: 11-12 **3.0 Credit**
Prerequisite: At least 16 years of age and valid work documentation (such as a Social Security card) and Approval Process

A work-based learning program that combines occupationally related classroom instruction and work-based experiences. Students are expected to be enrolled in the career preparation program the entire school year and must have reliable transportation to/from the training site each day. A student not employed at an approved training station prior to the ninth day of school shall have a schedule change removing him/her from the Career Preparation program. The student must be in a paid position and may not be employed by a relative. The student will receive an employer evaluation each grading period as one component of the nine week average.

Approval Process: Yes
Transportation Needed: Yes

Culinary Arts Pathway



BUSINESS & INDUSTRY ENDORSEMENT



PRINCIPLES OF HUMAN SERVICES

KISD #: 933118 **PEIMS:** 13024200
Grades: 7-10 **1.0 Credit**
Prerequisite: None

Students will gain knowledge and skills related to personal human development. Instruction enables students to investigate careers in the human services career cluster, including early childhood development, family and community, mental health and personal care services. Content includes decision-making, positive relationships, child development, nutrition and food production, finance, and personal grooming as it relates to personal and professional settings.

Required Fee/Materials: Yes

PRINCIPLES OF HOSPITALITY SERVICES

KISD #: 935118 **PEIMS:** 1302200
Grades: 9-11 **1.0 Credit**
Prerequisite: None

Students will investigate careers in the hospitality cluster including, travel and tourism, recreation, amusement, attractions, resorts, restaurants and food beverage services. Students will also gain an understanding of the restaurant industry, including sanitation and safety, and food service practices.

CULINARY ARTS

KISD #: 935018 **PEIMS:** 13022600
Grades: 10-11 **2.0 Credits**
Prerequisite: None

Students will learn the fundamentals and principles of the art of cooking and the science of baking. Emphasis is placed on safety, management, production skills and techniques in a professional kitchen setting. Students can pursue a national sanitation certification, ServSafe Certification, or any other appropriate food industry certification. This course will be offered as a laboratory-based course. Students are encouraged to participate in extended learning experiences.

Required Fee/Materials: Yes
Industry Certification: ServSafe Food Handler
Transportation Needed: Yes
Note: Offered at Klein, Klein Forest and Klein Cain High Schools

ADVANCED CULINARY ARTS

KISD #: 936418 **PEIMS:** 13022650
Grades: 11-12 **2.0 Credits**
Prerequisite: Culinary Arts

Student will participate in a continuation of the course, Culinary Arts, to expand skills and learn management and leadership practices of the culinary industry. Students are taught employability skills, which include job-specific skills, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development.

Required Fee/Materials: Yes
Transportation Needed: Yes
Industry Certification: ServSafe Manager
Note: Offered at Klein High School, Klein Forest High School and Klein Cain High School

PRACTICUM IN CULINARY ARTS

KISD #: 935218 **PEIMS:** 13022700
Grades: 12 **2.0 Credits**
Prerequisite: Culinary Arts

Students will participate in a practicum learning experience that combines classroom instruction and actual business and industry career experiences. Students are taught employability skills, including job-specific skills applicable to their training plan, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development.

Required Fee/Materials: Yes
Advanced Grade Points: Yes
Transportation Needed: Yes
Note: Offered at Klein High School, Klein Forest High School and Klein Cain High School

Network Design Pathway



BUSINESS & INDUSTRY ENDORSEMENT

Recommended	Recommended Level 1	Required Level 2	Level 3	Level 4
Computer Programming		Internetworking Technologies I - II		Practicum in Networking (Available at KF & KO)
- OR -	- OR -	- OR -	- OR -	
Principles of Information Technology	Computer Maintenance	Computer Science Principles AP	Networking Lab (Available at KF & KO)	
- OR -				
Gateway to Coding				

CERTIFICATIONS: Microsoft Technology Associate (MTA), Microsoft Technology Associate (MTA) Networking Fundamentals, Microsoft Technology Associate (MTA) Security Fundamentals

GATEWAY TO CODING

KISD #: 9489J18 **PEIMS:** N1303758
Grades: 7 – 8 **0.5 Credit**
Prerequisite: None

Students will design and develop a physical computing device, interactive art installation, and plan and develop code for microcontrollers that bring their physical designs to life. Students will also computationally analyze and develop solutions to authentic problems through mobile app development. Students will customize their experience by choosing a problem that interests them from the areas of health, environment, emergency preparedness, education, community service, and school culture.

Required Fee/Materials: Yes

PRINCIPLES OF INFORMATION TECHNOLOGY

KISD #: 9332J18 **PEIMS:** 13027200
Grades: 8 **1.0 Credit/High School Credit**
Prerequisite: None

Students will use word processing, spreadsheet, presentation and desktop publishing software applications to enhance reading, writing, computing, communication and reasoning skills. Students will also have opportunities to develop keyboarding skills or enhance their keying accuracy and speed.

Required Fee/Materials: Yes

COMPUTER MAINTENANCE

KISD #: 964418 **PEIMS:** 13027300
Grades: 9-10 **1.0 Credit**
Prerequisite: None

Students learn the principles of computer maintenance, including computer hardware and broad level components related to the installation, diagnosis, service, and repair of computer systems. Students will have the opportunities to build personal computers and troubleshoot common maintenance problems.

Required Fee/Materials: Yes

Note: Not offered at Klein Forest HS

INTERNETWORKING I & II

***CONCURRENT ENROLLMENT REQUIRED IN:**

KISD #: 964718	PEIMS: N1302803
Grades: 10-12	1.0 Credit (2 periods Fall Semester)
Prerequisite:	None

KISD #: 965118	PEIMS: N1302804
Grades: 10-12	1.0 Credit (2 pds Spring Semester)

Students will design small to medium-sized local area networks in a laboratory setting as part of the Cisco Networking Academy Program. The course focuses on network fundamentals and theory, switching, basic network security, LAN and WAN design, structured cabling, and the configuration of routers, wireless equipment, and advanced routing protocols. Students must be able to work in an online learning management system requiring advanced technical vocabulary.

Required Fee/Materials:	Yes
Advanced Grade Points:	Yes
Transportation Needed:	Yes
Note:	Offered at Klein Forest HS & Klein Oak HS
Industry Certification:	Microsoft Technology Associate (MTA)

NETWORKING/NETWORKING LAB

KISD #: 965218	PEIMS: 13027410
Grades: 11-12	2.0
Prerequisite:	Successful completion of Internetworking II

Students will continue with the courses in the Cisco Networking Academy Program. Content focus is on network configuration.

Required Fee/Materials:	Yes
Advanced Grade Points:	Yes
Transportation Needed:	Yes
Note:	Offered at Klein Forest and Klein Oak high schools.
Industry Certification:	Cisco Certified Network Associate (CCNA) or Microsoft Technology Associate (MTA)

PRACTICUM IN NETWORKING

KISD #: 964618	PEIMS: 13027500
Grades: 12	2.0
Prerequisite:	Successful completion of Networking/Networking Lab.

Students will continue with the courses in the Cisco Networking Academy Program. Emphasis will be on baseline network security.

Required Fee/Materials:	Yes
Advanced Grade Points:	Yes
Transportation Needed:	Yes
Note:	Offered at Klein Forest and Klein Oak high schools.
Industry Certification:	Cisco Certified Network Associate Security (CCNA - Security) or Microsoft Technology Associate (MTA)

Video Game Programming & Design Pathway



BUSINESS & INDUSTRY ENDORSEMENT



- AND/OR -

Digital Design
Media Production

- AND/OR -

Gateway to Coding

COMPUTER PROGRAMMING

KISD #: 914818 PEIMS: 03580400
Grades: 8-9 1 Credit
Prerequisite: None

Computer programming is a part of every industry. Students will acquire knowledge of structured programming techniques and concepts appropriate to developing executable programs and creating appropriate documentation. Students will analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as related to computer programming.

Required Fee/Materials: Yes

DIGITAL DESIGN AND MEDIA PRODUCTION

KISD #: 4922J PEIMS: 03580400
Grades: 8 1.0 Credit

Recommended Prerequisite: Strong reading and comprehension skills and ability to work independently

The Digital Design and Media Production (DDMP) class meets in a computer lab where students will obtain hands-on experience working with a variety of media tools (graphic/image, audio and video) to design multimedia projects. Students will utilize various software applications including Adobe products such as Photoshop and Illustrator. This project based course focuses on real-world audiences as customers.

Required Fee/Materials: Yes

GATEWAY TO CODING

KISD #: 9489J18 PEIMS: N1303758
Grades: 7-8 0.5 Credit
Prerequisite: None

Students will design and develop a physical computing device, interactive art installation, and plan and develop code for microcontrollers that bring their physical designs to life. Students will also computationally analyze and develop solutions to authentic problems through mobile app development. Students will customize their experience by choosing a problem that interests them from the areas of health, environment, emergency preparedness, education, community service, and school culture.

Required Fee/Materials: Yes

VIDEO GAME DESIGN

KISD #: 915118 PEIMS: 13009970
Grades: 9-10 1.0 Credit
Prerequisite: None

Students will explore one of the largest industries in the global marketplace and the new emerging careers it provides in the field of technology. Students will learn gaming, computerized gaming, evolution of gaming, artistic aspects of perspective, design, animation, technical concepts of collision theory, and programming logic. Students will participate in a simulation of a real video game design team while developing technical proficiency in constructing an original game design.

VIDEO GAME PROGRAMMING

KISD #: PEIMS: N1300994
Grades: 10-11 **1.0 Credit**
Prerequisite: Video Game Design

Video Game Programming expands on the foundation created in Video Game Design through programming languages such as: C# programming, XNA game studio, Java, and Android App. In this course, students will investigate the inner workings of a fully functional role-playing game (RPG) by customizing playable characters, items, maps, and chests and eventually applying customizations by altering and enhancing the core game code.

ADVANCED VIDEO GAME PROGRAMMING

KISD #: PEIMS: N1300994
Grades: 10-11 **1.0 Credit**
Prerequisite: Video Game Design

Advanced Video Game Programming students will be introduced to mobile application design and programming using Java and Eclipse for Android devices. Time will be spent learning basic Java programming and working with Android Studio to develop real working apps. Using Unity as an introduction to 3D game development, students will have exposure to and an understanding of: object-oriented programming concepts; game development skill with programs such as Unity; 3D modeling with programs such as Blender; image manipulation with programs such as GIMP; concepts related to the design process; and the ability to communicate and collaborate on group-based projects.

PRACTICUM IN GRAPHIC DESIGN AND ILLUSTRATION

KISD #: PEIMS: 13009000
Grades: 12 **2.0 Credit**
Prerequisite: Video Game Design

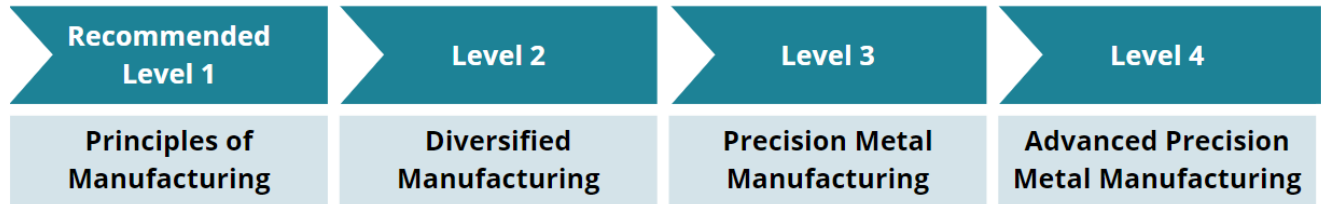
In addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop a technical understanding of the industry with a focus on skill proficiency.

Advanced Grade Points: Yes

Manufacturing Technology Pathway



BUSINESS & INDUSTRY ENDORSEMENT



PRINCIPLES OF MANUFACTURING

KISD #: 965818 **PEIMS:** 13032250
Grades: 9-10 **1.0 Credit**
Prerequisite: None

Students gain knowledge and skills in the application, design, production and assessment of products, services and systems. Student will explore the various fields in metalworking and will receive experience in the use of precision and non-precision tools as they learn the basic operations of manufacturing. Students will be involved in the problem solving process, safety with hand tools and power tools, familiarization of machining techniques

Required Fee/Materials: Yes
Note: Offered at Klein Forest High School

DIVERSIFIED MANUFACTURING

KISD #: 965618 **PEIMS:** 13002650
Grades: 10-11 **1.0 Credit**
Prerequisite: None

Students gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing.

Required Fee/Materials: Yes
Note: Offered at Klein Forest High School

PRECISION METAL MANUFACTURING

KISD #: 966218 **PEIMS:** 13032500
Grades: 10-11 **2.0 Credit**
Prerequisite: None

Precision Metal Manufacturing is the first part of a two-year program which prepares students to enter the workforce in the machine trades industry. Students will learn manual machining operations on the lathe, mill, and drill press. Instruction will include practices in work habits, career goals, blueprint reading, mathematics, measurement, and safety. Machine practices learned will include CNC, cutting, and heat treating.

Required Fee/Materials: Yes
Note: Offered at Klein Forest High School

ADVANCED PRECISION METAL MANUFACTURING

KISD #: 966618 **PEIMS:** 13032600
Grades: 11-12 **2.0 Credit**
Prerequisite: Precision Metal Manufacturing

Advanced Precision Metal Manufacturing is the second part of a two-year program which prepares students to enter the workforce in the machine trades industry. This course will provide students with advanced knowledge of computer numerical controlled (CNC) machining. In addition to learning MasterCam programming and operation, the students will learn Level 2 of milling and operating the lathe. Students will learn to write programs without the use of CAD, design projects and develop machine setup techniques.

Required Fee/Materials: Yes
Note: Offered at Klein Forest High School

PRACTICUM IN MANUFACTURING

KISD #: 966318 **PEIMS:** 13033000
Grades: 12 **1.0 Credit**
Prerequisite: Advanced Precision Metal Manufacturing

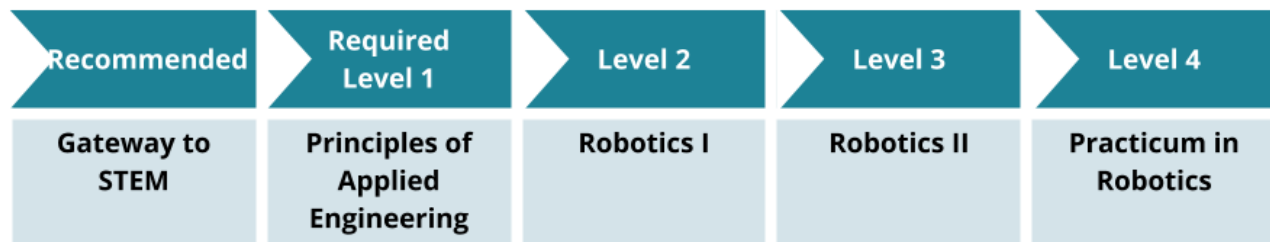
Students will learn manual machining operations on the lathe, mill, and drill press. Instruction will include practices in work habits, career goals, blueprint reading, mathematics, measurement, and safety. Machine practices learned will include CNC, cutting, and heat treating.

Required Fee/Materials: Yes
Note: Offered at Klein Forest High School

Robotics Pathway



BUSINESS & INDUSTRY ENDORSEMENT



GATEWAY TO STEM

*CONCURRENT ENROLLMENT REQUIRED IN:

Semester 1: Design, Modeling and Automation

KISD #: 9487J18

PEIMS: N1303756

Grades: 8

0.5 Credit/High School Credit

Semester 2: Applied Science and Technology

KISD #: 9488J18

PEIMS: N1303757

Grades: 8

0.5 Credit/High School Credit

Prerequisite:

None

Recommended Prerequisite: Strong Math and Science Skills

This course consists of three units of STEM related content from the Project Lead the Way (PLTW) curriculum. The units to be explored are Design and Modeling, Automation and Robotics and Magic of Electrons. Students work in teams to design orthotics and toys for children with disabilities. Using design software, students create a virtual image of their designs as well as capture research and ideas in an engineering notebook. Through hands-on projects, students explore electricity, the behavior and parts of atoms, and sensing devices. Students use a robotics platform to design, build, and program real-world objects such as traffic lights, toll booths, and robotic arms.

Required Fee/Materials: Yes

PRINCIPLES OF APPLIED ENGINEERING

KISD #: 947018

PEIMS: 13036200

Grades: 9-11

1.0 Credit

Recommended Prerequisite: Strong Math Skills

Students will develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects. Students will use Autodesk AutoCAD and other related software applications and a variety of computer hardware to complete assignments and projects.

Required Fee/Materials: Yes

ROBOTICS I

KISD #: 964118

PEIMS: 13037000

Grades: 10-12

1.0 Credit

Prerequisite:

AC/DC Electronics or Principles of Applied Engineering or Robotics and Program Design

Students will transfer academic skills to component designs in a project-based environment through implementation of the design process. Students will build robots or use simulation software to test their prototypes.

Required Fee/Materials: Yes

ROBOTICS II

KISD #: 964218

PEIMS: 13037050

Grades: 11-12

1.0 Credit

Prerequisite:

Robotics I

Students will explore artificial intelligence and programming in the robotic and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will construct complex robots or use simulation software to test their prototypes.

Required Fee/Materials: Yes

PRACTICUM IN ROBOTICS

KISD #: 966418

PEIMS: 13033000

Grades: 12

2.0 Credits

Prerequisite:

Robotics II

Students will continue to expand their knowledge of automation with complex programming, differentiated types of robotic components and structure design. Students will have opportunities to participate in competitions to modify prototype designs.

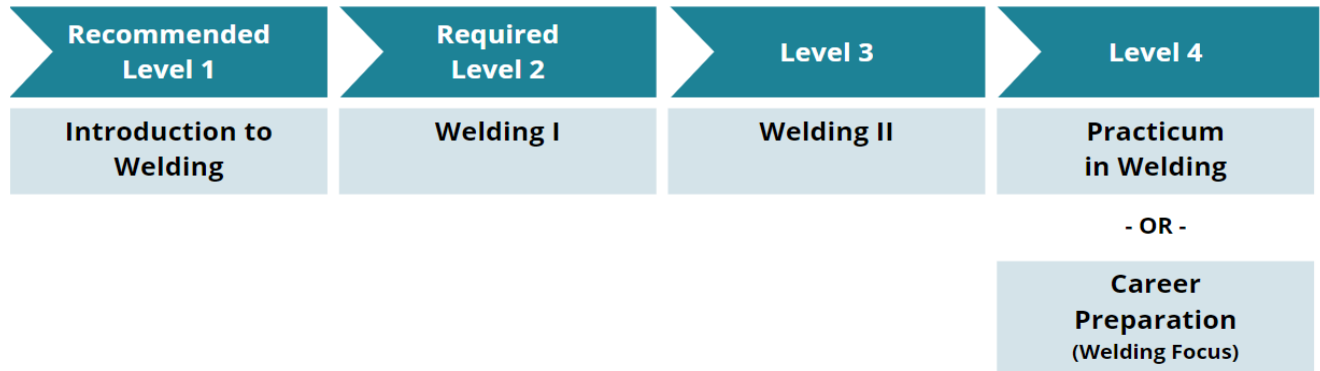
Required Fee/Materials: Yes

Advanced Grade Points: Yes

Welding Pathway



BUSINESS & INDUSTRY ENDORSEMENT



CERTIFICATIONS: American Welding Society D1.1 and D1.9

INTRODUCTION TO WELDING

KISD #: 966718 **PEIMS:** 13032250
Grades: 9-10 **1.0 Credit**
Prerequisite: None

Students will gain knowledge of welding technology with an emphasis on basic welding laboratory principles and operating procedures. Students will be introduced to the three basic welding processes: industrial safety and health practices, hand tool and power machine use, measurement, laboratory operating procedures, welding power sources, welding career potentials, and introduction to welding codes and standards.

Required Fee/Materials: Yes
Note: Offered at Klein Cain and Klein Oak High Schools

WELDING I

KISD #: 966818 **PEIMS:** 13032300
Grades: 10-12 **2.0 Credits**
Prerequisite: None

This sequential two-year program is designed to prepare students to be skilled workers and to understand, perform and supervise or inspect a wide variety of welding processes, including gas welding, brazing, flame cutting, plasma cutting, shielded metal arc welding and resistance welding. Introduction to gas metal arc welding, gas tungsten arc welding and flux core welding will also be explored. Students will develop a basic understanding of design for welding fabrication, an understanding of the cost and economics of various types welding. Students are introduced to the methods of nondestructive and destructive inspection of welds and welded products.

Required Fee/Materials: Yes
Transportation Needed: Yes
Note: Offered at Klein Cain and Klein Oak High Schools

WELDING II

KISD #: 967018 **PEIMS:** 13032400
Grades: 11-12 **2.0 Credits**
Prerequisite: Welding I

Welding II is the second part of a two-year program designed to prepare students to be skilled workers and to understand, perform and supervise or inspect a wide variety of welding processes, including gas welding, flame cutting, plasma cutting, arc gouging, shielded metal arc welding, gas metal arc welding, gas tungsten arc welding and flux core welding. Students will understand non-destructive and destructive inspection of welds and welded products and auxiliary equipment used in the process, such as jigs, fixtures, and tools and equipment related to welding. Students will develop math skills and problem solving skills used in the welding field.

Required Fee/Materials: Yes
Transportation Needed: Yes
Industry Certification: AWS D1.1 Welding
Note: Offered at Klein Cain and Klein Oak High Schools

PRACTICUM IN WELDING

KISD #: 966918 **PEIMS:** 13033000
Grades: 12 **2.0 Credits**
Prerequisite: Welding II

Students in this course will participate in a continuation of Welding II in a lab based environment. Advanced welding processes, design and weld testing will be the focus of this course.

Required Fee/Materials: Yes
Advanced Grade Points: Yes
Transportation Needed: Yes
Note: Offered at Klein Cain and Klein Oak High Schools

CAREER PREPARATION I (Welding Focus)**KISD #:** 967718**PEIMS:** 12701300**Grades:** 11-12**2.0 Credits****EXTENDED PRACTICUM IN CAREER PREP I****KISD #:** 967618**PEIMS:** 12701305**Grades:** 11-12**3.0 Credit****Prerequisite:****At least 16 years of age and valid work documentation (such as a Social Security card) and Approval Process**

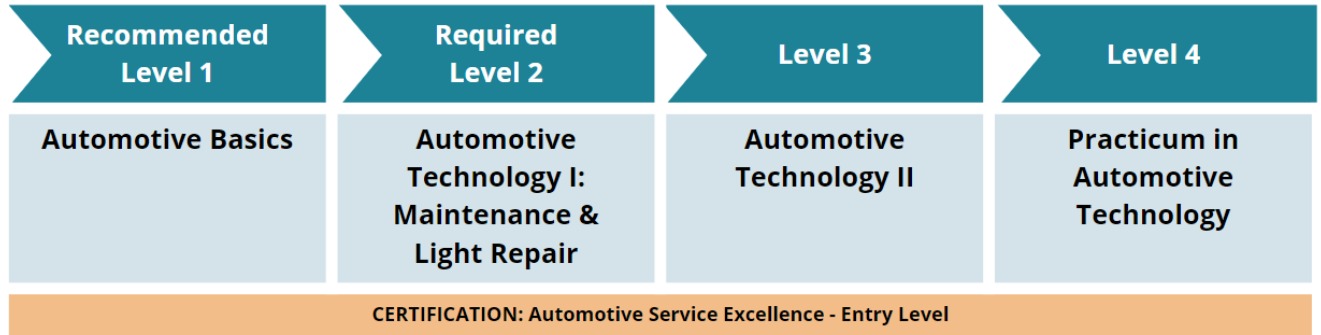
A work-based learning program that combines occupationally related classroom instruction and work-based experiences. Students are expected to be enrolled in the career preparation program the entire school year and must have reliable transportation to/from the training site each day. A student not employed at an approved training station prior to the ninth day of school shall have a schedule change removing him/her from the Career Preparation program. The student must be in a paid position and may not be employed by a relative. The student will receive an employer evaluation each grading period as one component of the nine week average.

Approval Process: Yes**Transportation Needed:** Yes

Automotive Technology Pathway



BUSINESS & INDUSTRY ENDORSEMENT



AUTOMOTIVE BASICS

KISD #: 961118 **PEIMS:** 13039550
Grades: 9-10 **1.0 Credit**
Prerequisite: None

Students will learn basic automotive systems, the theory and principles of the components that make up each system, and how to service these systems, including applicable safety and environmental rules and regulations. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

Required Fee/Materials: Yes

AUTOMOTIVE TECHNOLOGY I

KISD #: 961218 **PEIMS:** 13039600
Grades: 10-11 **2.0 Credits**
Prerequisite: None

Recommended Prerequisite: Automotive Basics

This sequential two-year program is designed to train students through classroom instruction, interactive computer application, and lab experiences. Students will be taught basic fundamentals and operation of all major automotive systems. Students will demonstrate knowledge of the concepts and skills related to the following automotive areas: (1) Brakes, (2) Steering and Suspension, (3) Electrical and Electronic Systems, and (4) Engine Performance. Special emphasis is placed on professional work ethics and safety.

Required Fee/Materials: Yes

AUTOMOTIVE TECHNOLOGY I DUAL CREDIT

KISD #: 9612DC18 **PEIMS:** 13039600
Grades: 10-11 **2.0 Credits**
Prerequisite: None

Recommended Prerequisite: Automotive Basics

This sequential two-year program is designed to train students through classroom instruction, interactive computer application, and lab experiences. Students will be taught basic fundamentals and operation of all major automotive systems. Students will demonstrate knowledge of the concepts and skills related to the following automotive areas: (1) Brakes, (2) Steering and Suspension, (3) Electrical and Electronic Systems, and (4) Engine Performance. Special emphasis is placed on professional work ethics and safety.

Required Fee/Materials: Yes

Dual Credit Correlation: AUMT 1405, AUMT 1407

AUTOMOTIVE TECHNOLOGY II

KISD #: 961418 **PEIMS:** 13039700
Grades: 11-12 **2.0 Credits**
Prerequisite: Automotive Technology I

This course is a continuation of Automotive Technology and is designed to train students through classroom instruction, interactive computer application, and lab experiences. Students will demonstrate knowledge of the concepts and skills related to the following automotive areas: (a) Brakes, (b) Steering and Suspension, (c) Electrical and Electronic Systems, and (d) Engine Performance. Special emphasis is placed on professional work ethics and safety.

Required Fee/Materials: Yes

Industry Certification: ASE Student Certifications

AUTOMOTIVE TECHNOLOGY II DUAL CREDIT

KISD #: 9614DC18

PEIMS: 13039700

Grades: 11-12

2.0 Credits

Prerequisite:

Automotive Technology I

This course is a continuation of Automotive Technology and is designed to train students through classroom instruction, interactive computer application, and lab experiences. Students will demonstrate knowledge of the concepts and skills related to the following automotive areas: (a) Brakes, (b) Steering and Suspension, (c) Electrical and Electronic Systems, and (d) Engine Performance. Special emphasis is placed on professional work ethics and safety.

Required Fee/Materials: Yes

Industry Certification: ASE Certification

Dual Credit Correlation: AUMT 1410, AUMT 1416

Pathway College Credential: Service Technician Level I Certificate from Lone Star College

PRACTICUM IN AUTOMOTIVE TECHNOLOGY

KISD #: 961918

PEIMS: 13040450

Grades: 12

2.0 Credits

Prerequisite:

Automotive Technology II

Students will participate in a course designed to provide job-specific skills through laboratory training and simulated work situations in areas compatible with identified career goals in Automotive Technology. Students will be challenged with the application of gained knowledge and skills from Automotive Technology I and II.

Required Fee/Materials: Yes

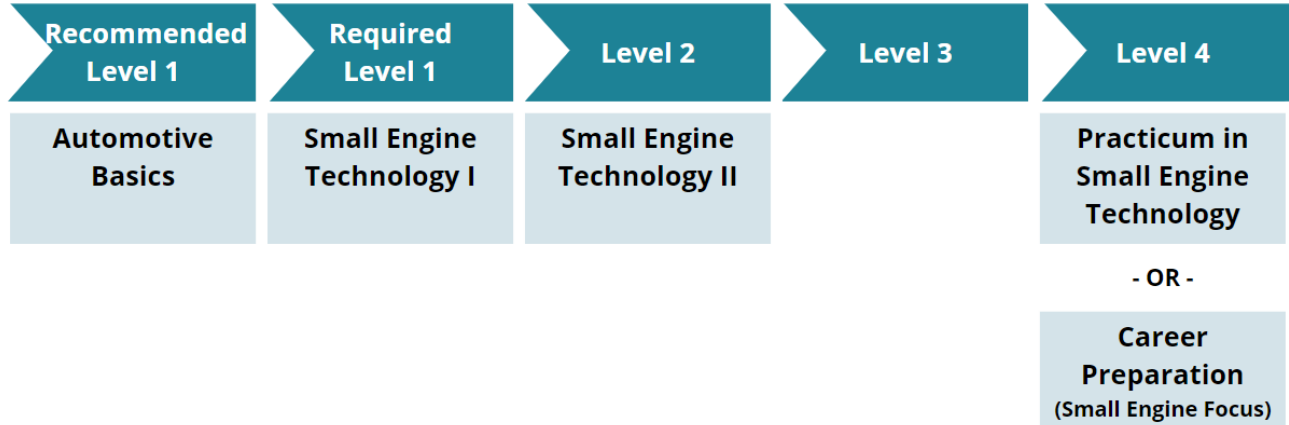
Advanced Grade Points: Yes

Industry Certification: ASE Certification

Small Engine Technology Pathway



BUSINESS & INDUSTRY ENDORSEMENT



CERTIFICATION: Briggs & Stratton Master Technician

AUTOMOTIVE BASICS

KISD #: 961118 **PEIMS:** 13039550
Grades: 9-10 **1.0 Credit**
Prerequisite: None

Students will learn basic automotive systems, the theory and principles of the components that make up each system, and how to service these systems, including applicable safety and environmental rules and regulations. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

Required Fee/Materials: Yes

SMALL ENGINE TECHNOLOGY I

KISD #: 967218 **PEIMS:** 13040000
Grades: 10-11 **1.0 Credit**
Prerequisite: None

This sequential two-year program is designed to provide training for entry-level employment in the air and liquid cooled engine technology industry. Skills developed include knowledge of the function, limited diagnosis and service of the systems and components of all types of lawn care equipment and irrigation engines. Instruction consists of repairing and servicing cooling systems, air cleaners, fuel systems, lubricating systems, and starter/ignition systems. In addition, students will receive instruction in safety, academic, leadership skills and career opportunities.

Required Fee/Materials: Yes
Note: Offered at Klein High and Klein Oak High Schools

SMALL ENGINE TECHNOLOGY II

KISD #: 967418 **PEIMS:** 13040100
Grades: 11-12 **2.0 Credits**
Prerequisite: Small Engine Technology I

This course is a continuation of Small Engine Technology and will include advanced knowledge of the function, diagnosis, and service of the systems and components of all types of lawn equipment, motorcycle, marine engines, and irrigation engines. Students will repair and service cooling systems, fuel systems, lubrication systems, electrical/ignition systems, and mechanical systems. In addition, the student will receive instruction in safety, academic, leadership skills and career opportunities.

Required Fee/Materials: Yes
Industry Certification: Briggs and Stratton Master Technician
Note: Offered at Klein High and Klein Oak High Schools

PRACTICUM IN SMALL ENGINE TECHNOLOGY

KISD #: 967118 **PEIMS:** 13040450
Grades: 12 **2.0 Credits**
Prerequisite: Small Engine Technology II

Students will participate in a course designed to provide job specific skills through laboratory training and simulated work situations in areas compatible with identified career goals in small engine technology.

Required Fee/Materials: Yes
Advanced Grade Points: Yes
Note: Offered at Klein High and Klein Oak High Schools

CAREER PREPARATION I (Small Engine Focus)**KISD #:** 967718**PEIMS:** 12701300**Grades:** 11-12**2.0 Credits****EXTENDED PRACTICUM IN CAREER PREP I****KISD #:** 967618**PEIMS:** 12701305**Grades:** 11-12**3.0 Credit****Prerequisite:****At least 16 years of age and valid work documentation (such as a Social Security card) and Approval Process**

A work-based learning program that combines occupationally related classroom instruction and work-based experiences. Students are expected to be enrolled in the career preparation program the entire school year and must have reliable transportation to/from the training site each day. A student not employed at an approved training station prior to the ninth day of school shall have a schedule change removing him/her from the Career Preparation program. The student must be in a paid position and may not be employed by a relative. The student will receive an employer evaluation each grading period as one component of the nine week average.

Approval Process: Yes**Transportation Needed:** Yes

Public Service Endorsement

Early Learning Pathway



PUBLIC SERVICE ENDORSEMENT



PRINCIPLES OF HUMAN SERVICES

KISD #: 933118 **PEIMS:** 13024200
Grades: 7-10 **1.0 Credit**
Prerequisite: None

Students will gain knowledge and skills related to personal human development. Instruction enables students to investigate careers in the human services career cluster, including early childhood development, family and community, mental health and personal care services. Content includes decision-making, positive relationships, child development, nutrition and food production, finance, and personal grooming as it relates to personal and professional settings.

Required Fee/Materials: Yes

PRINCIPLES OF EDUCATION & TRAINING

KISD #: 932918 **PEIMS:** 13014200
Grades: 9-10 **1.0 Credit**
Prerequisite: None

Students will gain knowledge of the various careers available within the Education and Training Career Cluster. Students will use self-knowledge as well as educational and career information to analyze various careers and develop a graduation plan that leads to a specific career choice in the student's interest area.

CHILD DEVELOPMENT

KISD #: 933518 **PEIMS:** 13024700
Grades: 10-11 **1.0 Credit**
Prerequisite: None

Students will gain knowledge and skills related to prenatal development, care, guidance, and protection of children. Instruction addresses the principles and procedures for promoting the physical, emotional, social, and intellectual development of young children, including those with special needs. Other topics include family management, characteristics of quality child care, and career options related to the care and education of children.

CHILD GUIDANCE

KISD #: 933618 **PEIMS:** 13024800
Grades: 11-12 **2.0 Credits**
Prerequisite: Child Development and Approval Process

Students will gain knowledge and skills related to child growth and guidance equipping students to develop positive relationships with children and effective caregiver skills. Students use these skills to promote the well-being and healthy development of children, strengthen a culturally diverse society, and pursue careers related to the care, guidance, and education of children. Instruction will be delivered through school based lab training.

Required Fee/Materials: Yes

Approval Process: Yes

PRACTICUM EARLY LEARNING

KISD #: **PEIMS:**
Grades: 12 **2.0 Credits**
Prerequisite: Child Guidance and Approval Process

Students will gain knowledge and skills related to the development of consumer services, early childhood development and services, counseling and mental health services, and family and community services careers. Instruction will be delivered through a school-based laboratory training.

Required Fee/Materials: Yes

Approval Process: Yes

Advanced Grade Points: Yes

Teaching & Training Pathway



PUBLIC SERVICE ENDORSEMENT



PRINCIPLES OF HUMAN SERVICES

KISD #: 933118 **PEIMS:** 13024200
Grades: 7-10 **1.0 Credit**
Prerequisite: None

Students will gain the knowledge and skills related to personal human development. The course will enable students to investigate careers in the human services career cluster, including early childhood development, family and community, mental health and personal care services. Content includes decision-making, positive relationships, child development, nutrition and food production, finance, and personal grooming as it relates to personal and professional settings.

Required Fee/Materials: Yes

PRINCIPLES OF EDUCATION & TRAINING

KISD #: 932918 **PEIMS:** 13014200
Grades: 9-10 **1.0 Credit**
Prerequisite: None

Students will gain knowledge of the various careers available within the Education and Training Career Cluster. Students will use self-knowledge as well as educational and career information to analyze various careers and develop a graduation plan that leads to a specific career choice in the student's interest area.

CHILD DEVELOPMENT

KISD #: 933518 **PEIMS:** 13024700
Grades: 10-11 **1.0 Credit**
Prerequisite: None

Students will gain knowledge and skills related to prenatal development, care, guidance, and protection of children. Instruction addresses the principles and procedures for promoting the physical, emotional, social, and intellectual development of young children, including those with special needs. Other topics include family management, characteristics of quality child care, and career options related to the care and education of children.

INSTRUCTIONAL PRACTICES IN EDUCATION & TRAINING

KISD #: 933318 **PEIMS:** 13014400
Grades: 11-12 **2.0 Credits**
Prerequisite: Child Development

Students will participate in a field-based internship that improves knowledge of child and adolescent development, as well as principles of effective teaching and training practices. Students are placed at either the elementary or intermediate school level with a field-site teacher. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel.

Required Fee/Materials: Yes
Transportation Needed: Yes
Approval Process: Yes

PRACTICUM IN EDUCATION AND TRAINING

KISD #: 933418 **PEIMS:** 13014500
Grades: 12 **2.0 Credits**
Prerequisite: Instructional Practices in Education and Training

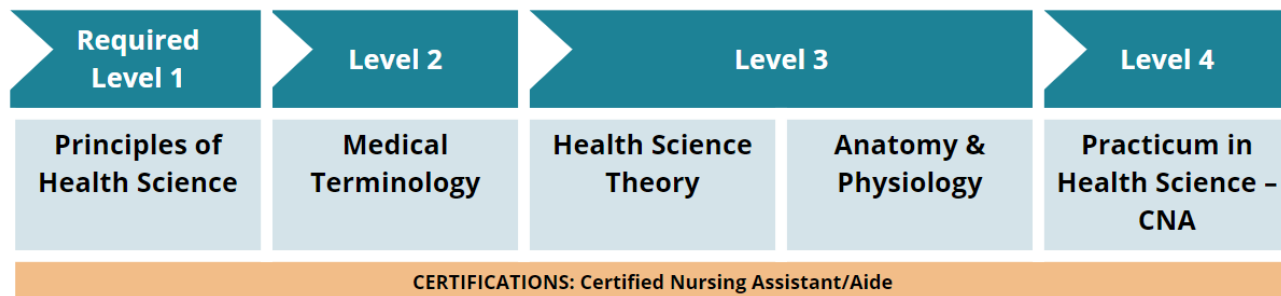
Students who wish to continue a second year of the field-based internship may pursue the practicum course. Students are placed at either the elementary or intermediate school level with a field-site teacher. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel.

Required Fee/Materials: Yes
Transportation Needed: Yes
Approval Process: Yes
Advanced Grade Points: Yes

Certified Nursing Assistant Pathway



PUBLIC SERVICE ENDORSEMENT



PRINCIPLES OF HEALTH SCIENCE

KISD #: 927018 **PEIMS:** 13020200
Grades: 9-10 **1.0 Credit**
Prerequisite: Biology I or Concurrent Enrollment

Are you interested in medical and associated health careers. This course provides an overview of the therapeutic, diagnostic, environmental, and informational systems of the healthcare industry. Topics include career requirements, medical history, trends in financing health care, ethical and legal responsibilities, human anatomy and physiology as related to the healthcare profession, client care, safety, first aid, and CPR. This course prepares students for the transition to clinical and/or work-based experiences available in the advanced health science courses.

Industry Certification: CPR

MEDICAL TERMINOLOGY

KISD #: 927818 **PEIMS:** 13020300
Grades: 10-12 **1.0 Credit**
Prerequisite: Principles of Health Science
Note: Principles of Health Science may be taken concurrently for students in grades 10-11

Students will develop a working knowledge of the language of medicine and acquire word-building skills by learning prefixes, suffixes, word roots, abbreviations, and acronyms. By relating terms to body systems, students identify proper use of words in a medical environment. Knowledge of medical terminology enhances the student's ability to successfully secure employment or pursue advanced education in health care.

HEALTH SCIENCE THEORY

KISD #: **PEIMS:**
Grades: 10-11 **1.0 Credit**
Prerequisite: Principles of Health Science and Medical Terminology
Recommended Prerequisite: Anatomy and Physiology, World Health Research

Students will develop knowledge and skills related to a wide variety of health careers opportunities, advanced medical terminology, anatomy and physiology, and pathophysiology as related to the health care profession. Instruction in this course will be classroom based. This course will be implemented in school year 2022-2023.

ANATOMY & PHYSIOLOGY

KISD #: 927118 **PEIMS:** 13020600
Grades: 11-12 **1.0 Credit/Science Credit Option**
Prerequisite: Biology I and Chemistry I
Recommended Prerequisite: Principles of Health Science and Medical Terminology

Students will conduct laboratory investigations/fieldwork, use scientific methods during investigations, and make informed decisions using critical thinking and problem solving. Topics will be presented through an integration of biology, chemistry, and physics. Students will study the structures and functions of the human body and body systems and will investigate the body's responses to forces, maintenance of homeostasis, electrical interactions, transport systems, and energy systems. Students will also analyze the relationship between anatomical structures and physiological functions of the human systems. This course is also listed in the Science Section of the Guidance Handbook.

Advanced Grade Points: Yes

ANATOMY & PHYSIOLOGY DUAL CREDIT

KISD #: 9271DC18

PEIMS: 13020600

Grades: 11-12

1.0 Credit/Science Credit Option

Prerequisite:

Biology I and Chemistry I

Recommended Prerequisite: Principles of Health Science and Medical Terminology

Students will conduct laboratory investigations/fieldwork, use scientific methods during investigations, and make informed decisions using critical thinking and problem solving to study the structure and function of the human body. Emphasis will be given to the study of cells and tissues and anatomical and physiological interrelationships of the integumentary, skeletal, muscular, and nervous systems. Designed primarily for students entering health careers. This course is also listed in the Science section of the Catalog.

Advanced Grade Points: Yes

Dual Credit Correlation: BIOL 2401

Required Fee/Materials: Yes

PRACTICUM IN HEALTH SCIENCE

CERTIFIED NURSING ASSISTANT (CNA)

KISD #: 927418

PEIMS: 13020500

Grades: 12

2.0 Credits

Prerequisite:

**Principles of Health Science and
Medical Terminology and
Anatomy and Physiology and
Certification in CPR and
Approval Process**

Note:

Concurrent enrollment in Anatomy & Physiology is permitted.

Students will learn to attend to patients' hygiene, comfort, nourishment, and social needs. Competencies will be demonstrated by the taking of vital signs, assisting patients with ADL's, maintaining patient hygiene and safety, and providing infection control. Upon completion of the course, students will be eligible to test for state Certified Nurse Assistant and Clinical Medical Assisting certifications. Students must be CPR certified and submit documentation of the following health screenings/status: Tuberculin skin test, proof of Rubella and Rubeola immunity, Varicella immunity, and Hepatitis B series immunization is required. Due to specific clinical/hospital and licensing requirements for certification, student must pass a criminal background check and/or verify personal health insurance coverage with insurer approved by the hospital/facility in order to participate in the course. Students will be notified at the beginning of the course if other facilities have additional requirements. A uniform, name tag, stethoscope, gait belt, fee for certification testing, and professional liability insurance is required.

Required Fee/Materials: Yes

Advanced Grade Points: Yes

Approval Process: Yes

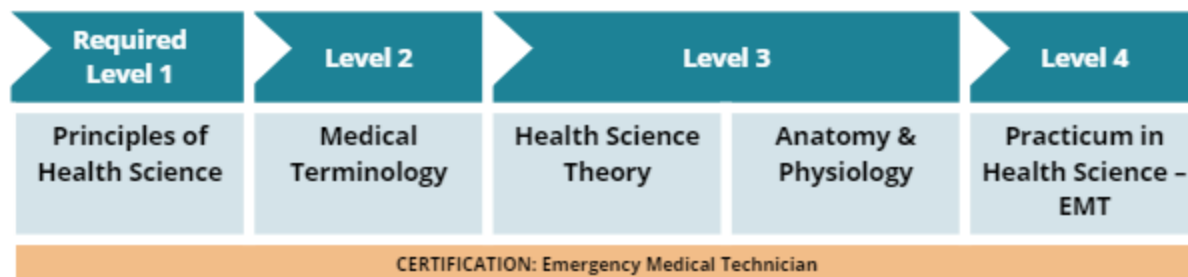
Transportation Needed: Yes

Industry Certification: Certified Nursing Assistant
Clinical Medical Assistant

Emergency Medical Technician Pathway



PUBLIC SERVICE ENDORSEMENT



PRINCIPLES OF HEALTH SCIENCE

KISD #: 927018 **PEIMS:** 13020200
Grades: 9-10 **1.0 Credit**
Prerequisite: Biology I or Concurrent Enrollment

Are you interested in medical and associated health careers. This course provides an overview of the therapeutic, diagnostic, environmental, and informational systems of the healthcare industry. Topics include career requirements, medical history, trends in financing health care, ethical and legal responsibilities, human anatomy and physiology as related to the healthcare profession, client care, safety, first aid, and CPR. This course prepares students for the transition to clinical and/or work-based experiences available in the advanced health science courses.

Industry Certification: CPR

MEDICAL TERMINOLOGY

KISD #: 927818 **PEIMS:** 13020300
Grades: 10-12 **1.0 Credit**
Prerequisite: Principles of Health Science
Note: Principles of Health Science may be taken concurrently for students in grades 10-11

Students will develop a working knowledge of the language of medicine and acquire word-building skills by learning prefixes, suffixes, word roots, abbreviations, and acronyms. By relating terms to body systems, students identify proper use of words in a medical environment. Knowledge of medical terminology enhances the student's ability to successfully secure employment or pursue advanced education in health care.

HEALTH SCIENCE THEORY

KISD #: **PEIMS:**
Grades: 10-11 **1.0 Credit**
Prerequisite: Principles of Health Science and Medical Terminology

Recommended Prerequisite: Anatomy and Physiology, World Health Research

Students will develop knowledge and skills related to a wide variety of health careers opportunities, advanced medical terminology, anatomy and physiology, and pathophysiology as related to the health care profession. Instruction in this course will be classroom based. This course will be implemented in school year 2022-2023.

ANATOMY & PHYSIOLOGY

KISD #: 927118 **PEIMS:** 13020600
Grades: 11-12 **1.0 Credit/Science Credit Option**
Prerequisite: Biology I and Chemistry I
Recommended Prerequisite: Principles of Health Science and Medical Terminology

Students will conduct laboratory investigations/fieldwork, use scientific methods during investigations, and make informed decisions using critical thinking and problem solving. Topics will be presented through an integration of biology, chemistry, and physics. Students will study the structures and functions of the human body and body systems and will investigate the body's responses to forces, maintenance of homeostasis, electrical interactions, transport systems, and energy systems. Students will also analyze the relationship between anatomical structures and physiological functions of the human systems.

Advanced Grade Points: Yes

ANATOMY & PHYSIOLOGY DUAL CREDIT

KISD #: 9271DC18

PEIMS: 13020600

Grades: 11-12

1.0 Credit/Science Credit Option

Prerequisite:

Biology I and Chemistry I

Recommended Prerequisite: Principles of Health Science and Medical Terminology

Students will conduct laboratory investigations/fieldwork, use scientific methods during investigations, and make informed decisions using critical thinking and problem solving to study the structure and function of the human body. Emphasis will be given to the study of cells and tissues and anatomical and physiological interrelationships of the integumentary, skeletal, muscular, and nervous systems. Designed primarily for students entering health careers.

Advanced Grade Points: Yes

Dual Credit Correlation: BIOL 2401

Required Fee/Materials: Yes

PRACTICUM IN HEALTH SCIENCE

EMERGENCY MEDICAL TECHNICIAN (EMT)

KISD #: 927618

PEIMS: 13020500

Grades: 12

2.0 Credits

Prerequisite:

Principles of Health Science and Medical Terminology and Anatomy and Physiology

Recommended Prerequisite: Pharmacology

Age Requirement: Student must be 18 years of age on or before May 1, 2021. Students who do not meet the age requirement may submit the interest form for consideration of acceptance if space is available.

Students will gain knowledge and skills related to patient assessment, spinal immobilization, trauma management, treatment of medical emergencies, and mechanical aids to breathing. Participation requires an additional twenty-four (24) hours of ambulance experience, twelve (12) hours of emergency room observation, four (4) hours in the communication center and eight (8) hours for extrication day event. The student must submit documentation for the following: (1) current TB skin test, (2) ten panel drug screening, (3) influenza vaccination, (4) physical examination and (5) documentation of current/updated immunizations. Student tuition fee will be due at the beginning of the school year. Student uniform, blood pressure cuff, stethoscope, trauma scissors, penlight, and safety glasses are required prior to contact with patients.

Additional requirements or changes in printed requirements are subject to change due to agreements with partnering EMT agencies.

Required Fee/Materials: Yes

Advanced Grade Points: Yes

Transportation Needed: Yes

Approval Process: Yes

Industry Certification: Emergency Medical Technician

Health Care Pathway



PUBLIC SERVICE ENDORSEMENT

Required Level 1	Level 2	Level 3	Level 4
Principles of Health Science	Medical Terminology	Anatomy & Physiology (Recommended)	Health Science Theory/Clinical

- OR -

World Health Research

PRINCIPLES OF HEALTH SCIENCE

KISD #: 927018 **PEIMS:** 13020200
Grades: 9-10 **1.0 Credit**
Prerequisite: Biology I or Concurrent Enrollment

Are you interested in medical and associated health careers. This course provides an overview of the therapeutic, diagnostic, environmental, and informational systems of the healthcare industry. Topics include career requirements, medical history, trends in financing health care, ethical and legal responsibilities, human anatomy and physiology as related to the healthcare profession, client care, safety, first aid, and CPR. This course prepares students for the transition to clinical and/or work-based experiences available in the advanced health science courses.

Industry Certification: CPR

MEDICAL TERMINOLOGY

KISD #: 927818 **PEIMS:** 13020300
Grades: 10-12 **1.0 Credit**
Prerequisite: Principles of Health Science
Note: Principles of Health Science may be taken concurrently for students in grades 10-11

Students will develop a working knowledge of the language of medicine and acquire word-building skills by learning prefixes, suffixes, word roots, abbreviations, and acronyms. By relating terms to body systems, students identify proper use of words in a medical environment. Knowledge of medical terminology enhances the student's ability to successfully secure employment or pursue advanced education in health care.

ANATOMY & PHYSIOLOGY

KISD #: 927118 **PEIMS:** 13020600
Grades: 11-12 **1.0 Credit/Science Credit Option**
Prerequisite: Biology I and Chemistry I
Recommended Prerequisite: Principles of Health Science and Medical Terminology

Students will conduct laboratory investigations/fieldwork, use scientific methods during investigations, and make informed decisions using critical thinking and problem solving. Topics will be presented through an integration of biology, chemistry, and physics. Students will study the structures and functions of the human body and body systems and will investigate the body's responses to forces, maintenance of homeostasis, electrical interactions, transport systems, and energy systems. Students will also analyze the relationship between anatomical structures and physiological functions of the human systems. This course is also listed in the Science Section of the Guidance Handbook.

Advanced Grade Points: Yes

ANATOMY & PHYSIOLOGY DUAL CREDIT

KISD #: 9271DC18 **PEIMS:** 13020600
Grades: 11-12 **1.0 Credit/Science Credit Option**
Prerequisite: Biology I and Chemistry I
Recommended Prerequisite: Principles of Health Science and Medical Terminology

Students will conduct laboratory investigations/fieldwork, use scientific methods during investigations, and make informed decisions using critical thinking and problem solving to study the structure and function of the human body. Emphasis will be given to the study of cells and tissues and anatomical and physiological interrelationships of the integumentary, skeletal, muscular, and nervous systems. Designed primarily for students entering health careers. This course is also listed in the Science section of the Catalog.

Advanced Grade Points: Yes
Dual Credit Correlation: BIOL 2401
Required Fee/Materials: Yes

WORLD HEALTH RESEARCH

KISD #: 928018

PEIMS: 13020900

Grades: 11-12

1.0 Credit

Prerequisite:

Biology I and Chemistry I

Students will examine major world health problems and emerging technologies as solutions to these medical concerns. The course is designed to improve understanding of the cultural, infrastructural, political, educational, and technological constraints and inspire ideas for appropriate technological solutions to global medical care issues.

HEALTH SCIENCE THEORY and HEALTH SCIENCE CLINICAL

KISD #: 926918

PEIMS: 13020410

Grades: 11-12

2.0 Credits

Prerequisite:

Principles of Health Science and Medical Terminology

Recommended Prerequisite: Anatomy and Physiology, World Health Research

Students will develop knowledge and skills related to a wide variety of health careers. Students will observe and assist professional health care personnel in clinical/hospital environments. Students must submit documentation of the following health screenings/status: Tuberculin skin test, proof of Rubella and Rubeola immunity, Varicella immunity, TDAP and Hepatitis B series immunization is required. Due to specific clinical/hospital requirements, student may be required to pass a criminal background check, drug screening, and/or verify personal health insurance coverage with insurer approved by the hospital/facility in order to participate in the course. Some of the hospital agreements may require students to provide documentation of citizenship status and/or a social security number. Students will be notified at the beginning of the course if other facilities have additional requirements. A uniform, name tag, stethoscope and professional liability insurance is required.

Required Fee/Materials: Yes

Advanced Grade Points: Yes

Transportation Needed: Yes

Approval Process: Yes

Medical Sciences Pathway



PUBLIC SERVICE ENDORSEMENT

Required Level 1	Level 2	Level 3	Level 4
Principles of Health Science	Medical Terminology	Anatomy & Physiology	Pathophysiology

- OR -

Medical Microbiology

PRINCIPLES OF HEALTH SCIENCE

KISD #: 927018 **PEIMS:** 13020200
Grades: 9-10 **1.0 Credit**
Prerequisite: Biology I or Concurrent Enrollment

Are you interested in medical and associated health careers. This course provides an overview of the therapeutic, diagnostic, environmental, and informational systems of the healthcare industry. Topics include career requirements, medical history, trends in financing health care, ethical and legal responsibilities, human anatomy and physiology as related to the healthcare profession, client care, safety, first aid, and CPR. This course prepares students for the transition to clinical and/or work-based experiences available in the advanced health science courses.

Industry Certification: CPR

MEDICAL TERMINOLOGY

KISD #: 927818 **PEIMS:** 13020300
Grades: 10-12 **1.0 Credit**
Prerequisite: Principles of Health Science
Note: Principles of Health Science may be taken concurrently for students in grades 10-11

Students will develop a working knowledge of the language of medicine and acquire word-building skills by learning prefixes, suffixes, word roots, abbreviations, and acronyms. By relating terms to body systems, students identify proper use of words in a medical environment. Knowledge of medical terminology enhances the student's ability to successfully secure employment or pursue advanced education in health care.

ANATOMY & PHYSIOLOGY

KISD #: 927118 **PEIMS:** 13020600
Grades: 11-12 **1.0 Credit/Science Credit Option**
Prerequisite: Biology I and Chemistry I
Recommended Prerequisite: Principles of Health Science and Medical Terminology

Students will conduct laboratory investigations/fieldwork, use scientific methods during investigations, and make informed decisions using critical thinking and problem solving. Topics will be presented through an integration of biology, chemistry, and physics. Students will study the structures and functions of the human body and body systems and will investigate the body's responses to forces, maintenance of homeostasis, electrical interactions, transport systems, and energy systems. Students will also analyze the relationship between anatomical structures and physiological functions of the human systems.

Advanced Grade Points: Yes

ANATOMY & PHYSIOLOGY DUAL CREDIT

KISD #: 9271DC18 **PEIMS:** 13020600
Grades: 11-12 **1.0 Credit/Science Credit Option**
Prerequisite: Biology I and Chemistry I
Recommended Prerequisite: Principles of Health Science and Medical Terminology

Students will conduct laboratory investigations/fieldwork, use scientific methods during investigations, and make informed decisions using critical thinking and problem solving to study the structure and function of the human body. Emphasis will be given to the study of cells and tissues and anatomical and physiological interrelationships of the integumentary, skeletal, muscular, and nervous systems. Designed primarily for students entering health careers.

Advanced Grade Points: Yes

Dual Credit Correlation: BIOL 2401

Required Fee/Materials: Yes

MEDICAL MICROBIOLOGY

KISD #: 928118

PEIMS: 13020700

Grades: 11-12

1.0 Credit/4th Science Credit Option

Prerequisite:

Biology I and Chemistry I

Recommended Prerequisite: A course from the Health Science cluster

Students will conduct laboratory investigations/fieldwork, use scientific methods during investigations, and make informed decisions using critical thinking and problem solving. Emphasis will be placed on the exploration of the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug resistant organisms, and emerging diseases.

Advanced Grade Points: Yes

PATHOPHYSIOLOGY

KISD #: 928218

PEIMS: 13020800

Grades: 11-12

1.0 Credit/4th Science Credit Option

Prerequisite:

Anatomy and Physiology

Recommended Prerequisite: A course from the Health Science cluster

Students will conduct laboratory and field investigations, use scientific methods during investigations, make informed decisions using critical thinking and scientific problem-solving and demonstrate professional standards as related to business and industry. Students in Pathophysiology study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology.

Advanced Grade Points: Yes

Pharmacy Pathway



PUBLIC SERVICE ENDORSEMENT

Required Level 1	Level 2	Level 3		Level 4
Principles of Health Science	Medical Terminology	Health Science Theory	Pharmacology	Practicum in Health Science – Certified Pharmacy Technician
CERTIFICATION: Certified Pharmacy Technician				

PRINCIPLES OF HEALTH SCIENCE

KISD #: 927018 **PEIMS:** 13020200
Grades: 9-10 **1.0 Credit**
Prerequisite: Biology I or Concurrent Enrollment

Are you interested in medical and associated health careers. This course provides an overview of the therapeutic, diagnostic, environmental, and informational systems of the healthcare industry. Topics include career requirements, medical history, trends in financing health care, ethical and legal responsibilities, human anatomy and physiology as related to the healthcare profession, client care, safety, first aid, and CPR. This course prepares students for the transition to clinical and/or work-based experiences available in the advanced health science courses.

Industry Certification: CPR

MEDICAL TERMINOLOGY

KISD #: 927818 **PEIMS:** 13020300
Grades: 10-12 **1.0 Credit**
Prerequisite: Principles of Health Science
Note: Principles of Health Science may be taken concurrently for students in grades 10-11

Students will develop a working knowledge of the language of medicine and acquire word-building skills by learning prefixes, suffixes, word roots, abbreviations, and acronyms. By relating terms to body systems, students identify proper use of words in a medical environment. Knowledge of medical terminology enhances the student's ability to successfully secure employment or pursue advanced education in health care.

HEALTH SCIENCE THEORY

KISD #: **PEIMS:**
Grades: 10-11 **1.0 Credit**
Prerequisite: Principles of Health Science and Medical Terminology
Recommended Prerequisite: Anatomy and Physiology, World Health Research

Students will develop knowledge and skills related to a wide variety of health careers opportunities, advanced medical terminology, anatomy and physiology, and pathophysiology as related to the health care profession. Instruction in this course will be classroom based. This course will be implemented in school year 2022-2023.

PHARMACOLOGY

KISD #: 926718 **PEIMS:** 13020950
Grades: 11-12 **1.0 Credit**
Prerequisite: Principles of Health Science
Recommended Prerequisite: Medical Terminology
Note: Principles of Health Science may be taken concurrently for students in grade 11

Students will study how natural and synthetic chemical agents such as drugs affect biological systems. Knowledge of the properties of therapeutic agents is vital in providing quality health care. It is an ever-changing, growing body of information that continually demands greater amounts of time and education from health care workers.

PRACTICUM IN HEALTH SCIENCE
CERTIFIED PHARMACY TECHNICIAN

KISD #: 927718 **PEIMS:** 13020500
Grades: 12 **2.0 Credits**
Prerequisite: **Principles of Health Science and**
 Pharmacology

Students will gain knowledge and skills for certification as a Certified Pharmacy Technician. Course is comprised of classroom instruction, lab applications, and independent study. Students will learn federal and state law pertaining to the pharmacy industry, drug classifications, medical terminology, ethical and legal issues, safety, aseptic technique, calculations, career opportunities, and pharmacy operations. Upon successful completion of the course, students will be eligible to test for the national Certified Pharmacy Technician certification. The student must provide proof of a high school diploma to receive certification.

Required Fee/Materials: Yes
Advanced Grade Points: Yes
Industry Certification: Certified Pharmacy Technician
Approval Process: Yes

Cosmetology Pathway



PUBLIC SERVICE ENDORSEMENT

Level 3

Cosmetology I / Lab

Level 4

Cosmetology II / Lab

- AND -

Cosmetology Careers

CERTIFICATION: Texas Cosmetology Operator

COSMETOLOGY I and LAB

KISD #: 962218 **PEIMS:** 13025210
Grades: 11 **3.0 Credits**
Prerequisite: **Approval Process**

Students will participate in a two-year program designed to teach the profession of beauty culture. One class period is devoted to classroom work for the study of cosmetology theory. Two class periods each day are devoted to practice in the laboratory to increase each student's manipulative skills. After two years the students should have fulfilled the 1500-hour requirement to take the Texas Department of Licensing and Regulation (TDLR) examination to become a licensed hairstylist. Occupational opportunities are hairstylist, platform artist, wig stylist, manicurist, makeup artist, manager of beauty a supply firm or beauty salon, owner of beauty salon, and color technician.

Required Fee/Materials: Yes
Approval Process: Yes

COSMETOLOGY II/LAB and COSMETOLOGY CAREERS

*CONCURRENT ENROLLMENT REQUIRED IN:

KISD #: 962418 **PEIMS:** 13025310
Grades: 12 **2.0 Credits**
KISD #: 965418 **PEIMS:** N1302540
Grades: 12 **2.0 Credits**
Prerequisite: **Successful completion of Cosmetology I and a minimum of 450 hours**

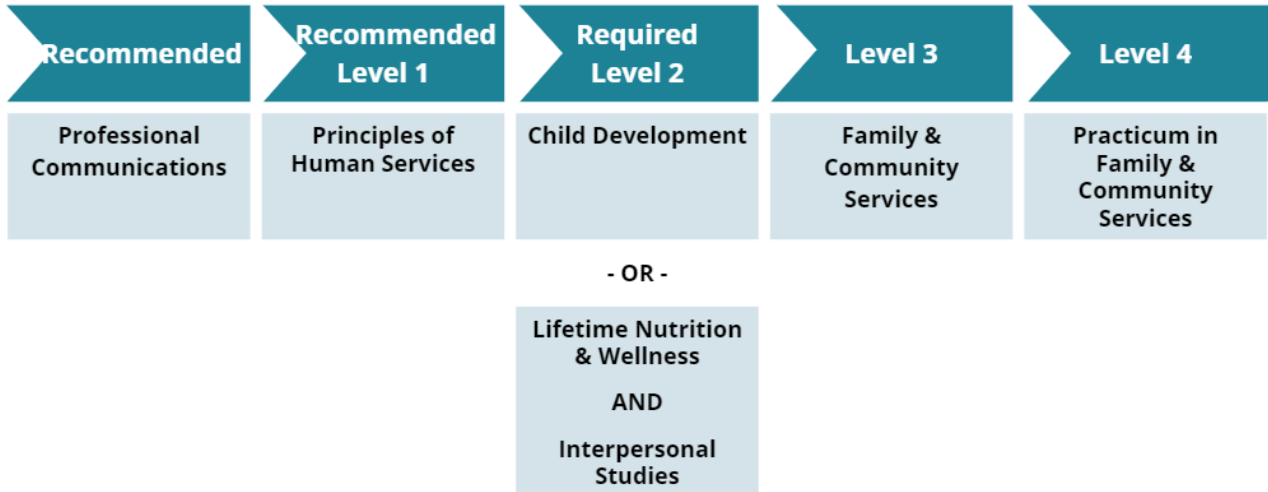
Students who have completed Cosmetology I and the required 450 hours will participate in the second year of the Cosmetology program. One class period is devoted to classroom work for the study of cosmetology theory. Two class periods each day are devoted to practice in the laboratory to increase each student's manipulative skills. Cosmetology II students are required to enroll in an 8th period. After two years the students should have fulfilled the 1500-hour requirement to take the Texas Department of Licensing and Regulation (TDLR) examination to become a licensed hairstylist. Once the required hours are met, TDLR requires a written exam fee. The written exam must be passed before applying for the practical exam. Students eligible for the exam are responsible for all exam fees.

Required Fee/Materials: Yes
Approval Process: Yes
Note: Students are required to enroll in an 8th period class
Industry Certification: Texas Cosmetology Operator

Family & Community Services Pathway



PUBLIC SERVICE ENDORSEMENT



PROFESSIONAL COMMUNICATIONS

KISD #: 970018 **PEIMS:** 13009900
Grades: 7-10 **0.5 Credit**
Prerequisite: None

This is an activity based career development course in which students will develop an understanding of professional communications through exploration of the career clusters. Students will explore a variety of career options and activities including formal and informal presentations, resume writing, and job interviewing. Students will exhibit public relations skills, leadership characteristics, knowledge of the global economy, and information technology applications.

PRINCIPLES OF HUMAN SERVICES

KISD #: 933118 **PEIMS:** 13024200
Grades: 7-10 **1.0 Credit**
Prerequisite: None

Students will gain the knowledge and skills related to personal human development. The course will enable students to investigate careers in the human services career cluster, including early childhood development, family and community, mental health and personal care services. Content includes decision-making, positive relationships, child development, nutrition and food production, finance, and personal grooming as it relates to personal and professional settings.

Required Fee/Materials: Yes

CHILD DEVELOPMENT

KISD #: 933518 **PEIMS:** 13024700
Grades: 10-12 **1.0 Credit**
Prerequisite: None

Students will gain knowledge and skills related to prenatal development, care, guidance, and protection of children. Instruction addresses the principles and procedures for promoting the physical, emotional, social, and intellectual development of young children, including those with special needs. Other topics include family management, characteristics of quality child care, and career options related to the care and education of children.

LIFETIME NUTRITION & WELLNESS

KISD #: 934818 **PEIMS:** 13024500
Grades: 10-12 **0.5 Credit**
Prerequisite: None

Students will gain knowledge of the roles of nutrients in the body and develop an understanding of lifetime wellness and nutrition principles. Students are encouraged to apply these principles in making educated choices that promote lifelong wellness. Students will demonstrate knowledge of nutrition and effective work habits such as cooperation, responsibility, time management and problem solving in the foods laboratory and classroom.

Required Fee/Materials: Yes

INTERPERSONAL STUDIES

KISD #: 933018 **PEIMS:** 13024400

Grades: 10-12 **0.5 Credit**

Prerequisite: **None**

Students will gain knowledge of how relationships between individuals and among family members affect the quality of life. The areas of study include: personal development, decision making, components of a healthy relationship, communication skills and conflict resolution, mate selection, the role of family members, responsible parenting, and crisis management. Interpersonal Studies includes the study of careers in counseling and mental health services.

FAMILY AND COMMUNITY SERVICES

KISD #: 932618 **PEIMS:** 13024900

Grades: 11-12 **1.0 Credit**

Prerequisite: **Child Development or Lifetime Nutrition & Wellness and Interpersonal Studies**

Family and Community Services is a laboratory-based course designed to involve students in realistic and meaningful community-based activities through direct service or service-learning experiences. Students are provided opportunities to interact with and provide services to individuals, families, and the community through community or volunteer services. Emphasis is placed on developing and enhancing organizational and leadership skills and characteristics.

PRACTICUM IN FAMILY AND COMMUNITY SERVICES

KISD #: **PEIMS:**

Grades: 12 **2.0 Credits**

Prerequisite: **Family and Community Services**

Practicum in Family and Community Services provides background knowledge and occupation-specific training that focuses on the development of consumer services, early childhood development and services, counseling and mental health services, and family and community-services careers.

Advanced Grade Points: Yes

Forensic Science Pathway



PUBLIC SERVICE ENDORSEMENT



The Forensic Science Pathway is related to Law Enforcement Pathway.

PRINCIPLES OF LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITIES

KISD #: 963218 **PEIMS:** 13029200
Grades: 9 **1.0 Credit**
Prerequisite: None

Students will gain knowledge of professions in law enforcement, protective services, corrections, firefighting, and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services.

LAW ENFORCEMENT I

KISD #: 963018 **PEIMS:** 13029300
Grades: 9-11 **1.0 Credit**
Prerequisite: None

Students will develop an introductory knowledge of the history, organization, and functions of local, state, and federal law enforcement. Students will understand the role of constitutional law at local, state, and federal levels; the U.S. legal system; criminal law; and law enforcement terminology and the classification and elements of crime.

CRIMINAL INVESTIGATION

KISD #: 963618 **PEIMS:** 13029550
Grades: 11-12 **1.0 Credit**
Prerequisite: Law Enforcement I

Students will learn terminology and investigative procedures related to criminal investigation, crime scene processing, evidence collection, fingerprinting, and courtroom presentation.

FORENSIC PSYCHOLOGY

KISD #: 965318 **PEIMS:** N1303012
Grades: 11-12 **1.0 Credit**
Prerequisite: Criminal Investigations

The course involves understanding criminal law in the relevant jurisdictions in order to be able to interact within the criminal justice system. Students will understand and apply basic skills developed in psychology and criminal scenarios resulting in a structured and scientific approach to investigative analysis; thereby, enabling police and law enforcement officials to predict criminal activity via scientific analysis rather than intuition. Students will learn basic structured psychological investigative techniques in question building, interviewing, criminal behavior characteristics, truth detection methodology, research methods, statistical analysis and probability forecasting.

FORENSIC SCIENCE

KISD #: 963518 **PEIMS:** 13029500
Grades: 11-12 **1.0 Credit/4th Science Credit Option**
Prerequisite: Law Enforcement I and Biology I and Chemistry I

Recommended Prerequisite: Criminal Investigations and Forensic Psychology

Students will apply science to connect a violation of law to a specific criminal, criminal act, or behavior and victim. Students will learn terminology and procedures related to the search and examination of physical evidence in criminal cases as they are performed in a typical crime laboratory. Using scientific methods, students will collect and analyze evidence such as fingerprints, bodily fluids, hairs, fibers, paint, glass, and cartridge cases. Students will also learn the history and the legal aspects as they relate to each discipline of forensic science.

Advanced Grade Points: Yes

Law Enforcement Pathway



PUBLIC SERVICE ENDORSEMENT

Recommended	Required Level 1	Level 2	Level 3	Level 4
Principles of Law, Public Safety, Corrections, Security	Law Enforcement I	Federal Law & Protective Services	Law Enforcement II	Practicum in Law Enforcement

- OR -

Correctional Services

The Law Enforcement Pathway is related to the Forensic Science Pathway.

PRINCIPLES OF LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITIES

KISD #: 963218 PEIMS: 13029200
 Grades: 8-9 1.0 Credit
 Prerequisite: None

Students will gain knowledge of professions in law enforcement, protective services, corrections, firefighting, and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services.

LAW ENFORCEMENT I

KISD #: 963018 PEIMS: 13029300
 Grades: 9-11 1.0 Credit
 Prerequisite: None

Students will develop an introductory knowledge of the history, organization, and functions of local, state, and federal law enforcement. Students will understand the role of constitutional law at local, state, and federal levels; the U.S. legal system; criminal law; and law enforcement terminology and the classification and elements of crime.

FEDERAL LAW & PROTECTIVE SERVICES

KISD #: 963718 PEIMS: 13029800
 Grades: 10-11 1.0 Credit
 Prerequisite: Law Enforcement I

Students will gain knowledge of security elements and types of organizations with a focus on security measures used to protect lives, property, and proprietary information, to ensure computer security, to provide information assurance, and to prevent cybercrime.

LAW ENFORCEMENT II

KISD #: 963118 PEIMS: 13029400
 Grades: 11-12 1.0 Credit
 Prerequisite: Law Enforcement I

Students will gain knowledge and skills necessary to prepare for a career in law enforcement. Students will understand ethical and legal responsibilities, patrol procedures, first responder roles, telecommunications, emergency equipment operations, and courtroom testimony.

CORRECTIONAL SERVICES

KISD #: 963318 PEIMS: 13029700
 Grades: 11-12 1.0 Credit
 Prerequisite: Law Enforcement I

Students will gain knowledge and skills necessary to prepare for a career as a municipal, county, state, or federal correctional officer. Students will learn the role and responsibilities of a county or municipal correctional officer; discuss relevant rules, regulations, and laws of municipal, county, state, or federal facilities; and discuss defensive tactics, restraint techniques, and first aid procedures as used in the municipal, county, state, or federal correctional setting. Students will analyze rehabilitation and alternatives to institutionalization for inmates.

Required Fee/Materials: Yes
 Dual Credit Correlation: CRIJ 1301 and CRIJ 2313

CORRECTIONAL SERVICES DUAL CREDIT**KISD #: 963318****PEIMS: 13029700****Grades: 11-12****1.0 Credit****Prerequisite:****Law Enforcement I**

Students will gain knowledge and skills necessary to prepare for a career as a municipal, county, state, or federal correctional officer. Students will learn the role and responsibilities of a county or municipal correctional officer; discuss relevant rules, regulations, and laws of municipal, county, state, or federal facilities; and discuss defensive tactics, restraint techniques, and first aid procedures as used in the municipal, county, state, or federal correctional setting. Students will analyze rehabilitation and alternatives to institutionalization for inmates.

Required Fee/Materials: Yes**PRACTICUM IN LAW ENFORCEMENT****KISD #: 962918****PEIMS: 13030100****Grades: 12****2.0 Credits****Prerequisite:****Law Enforcement I and 1 Upper
Level Criminal Justice Course and
Approval Process**

This course is taught in conjunction with the support of the Klein ISD Police Department at the district police facility. Students in this course will have opportunities to participate in simulated situations such as tactical force training, building search, felony and basic traffic stops, fingerprinting, evidence handling and basic patrol procedures. The Practicum in Law class assists the Klein Police Department with events such as football games and large meetings for crowd control. Field experiences provided to this group of students have included Harris County Criminal Courts, Texas DPS Headquarters, TDCJ prison system, Homeland security and Houston Police Division. Students will be required to pass a criminal background check, complete confidentiality waiver forms and provide tactical boots to be worn with the issued uniform.

Required Fee/Materials: Yes**Advanced Grade Points:** Yes**Approval Process:** Yes**Transportation Needed:** Yes

Legal Studies Pathway



PUBLIC SERVICE ENDORSEMENT

Required Level 1	Required Level 2	Level 3		Level 4
Principles of Law, Public Safety, Corrections, Security	Court Systems & Practices	Advanced Court Systems	Business Law	Practicum in Legal Studies

PRINCIPLES OF LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITIES

KISD #: 963218 **PEIMS:** 13029200
Grades: 8-9 **1.0 Credit**
Prerequisite: None

Students will gain knowledge of professions in law enforcement, protective services, corrections, firefighting, and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services.

COURT SYSTEMS AND PRACTICES

KISD #: 963418 **PEIMS:** 13029600
Grades: 11-12 **1.0 Credit**
Prerequisite: Principles of Law, Public Safety, Corrections, Security or Law Enforcement I

Students will develop an introductory knowledge of the federal and state court systems. The course identifies the roles of judicial officers and the trial processes from pretrial to sentencing and examines the types and rules of evidence. Emphasis is placed on constitutional laws for criminal procedures such as search and seizure, stop and frisk, and interrogation.

COURT SYSTEMS AND PRACTICES DUAL CREDIT

KISD #: 9634DC18 **PEIMS:** 13029600
Grades: 11-12 **1.0 Credit**
Prerequisite: Principles of Law, Public Safety, Corrections, Security or Law Enforcement I

Students will develop an introductory knowledge of the federal and state court systems. The course identifies the roles of judicial officers and the trial processes from pretrial to sentencing and examines the types and rules of evidence. Emphasis is placed on constitutional laws for criminal procedures such as search and seizure, stop and frisk, and interrogation.

Required Fee/Materials: Yes
Dual Credit Correlation: CRIJ 1301 and CRIJ 1306

BUSINESS LAW

KISD #: 917318 **PEIMS:** 13011700
Grades: 10-12 **1.0 Credit**
Prerequisite: None

Students will analyze various aspects of the U.S. legal system, including ethics, the judicial system, contracts, personal property, sales, negotiable instruments, agency and employment, business organization, risk management, and real property.

BUSINESS LAW DUAL CREDIT

KISD #: 9173DC18 **PEIMS:** 13011700
Grades: 10-12 **1.0 Credit**
Prerequisite: None

The course provides the student with foundational information about the U.S. legal system and dispute resolution, and their impact on business. The major content areas will include general principles of law, the relationship of business and the U.S. Constitution, state and federal legal systems, the relationship between law and ethics, contracts, sales, torts, agency law, intellectual property, and business law in the global context.

Required Fee/Materials: Yes
Advanced Grade Points: Yes
Dual Credit Correlation: BUSI 2301

ADVANCED COURT SYSTEMS

KISD #: **PEIMS:**
Grades: 10-11 **1.0 Credit**
Prerequisite: Court Systems and Practices

The course provides an indepth study of the U.S. and state court systems. Students will research landmark court cases and participate in mock trials. This course will be implemented in school year 2022-2023.

PRACTICUM IN LEGAL STUDIES

KISD #:

PEIMS:

Grades: 12

2.0 Credits

Prerequisite:

**Advanced Court Systems or
Business Law and Court Systems**

The practicum course is designed to give students supervised practical application of previously studied knowledge and skills in law, public safety, corrections, and security.

Required Fee/Materials: Yes

Advanced Grade Points: Yes

Approval Process: Yes

Transportation Needed: Yes

JROTC



PUBLIC SERVICE ENDORSEMENT



Air Force JROTC

The mission of Air Force Junior ROTC (AFJROTC) is to "develop citizens of character dedicated to serving their nation and community". The goal of the program is to instill in high school cadets the values of citizenship, service to the United States, personal responsibility, and a sense of accomplishment. The program educates and trains high school cadets in citizenship, promotes community service, instills responsibility, character, and self-discipline. AFJROTC is a four-year program for high school students. It is a balance of study that is 40% Aerospace Science, 40% Leadership Education, and 20% Wellness Education.

AFJROTC 1

KISD #: 1901

Grades: 9-12

1.0 Credit

Prerequisite:

None

Aerospace Science 100: Milestones in Aviation History

This is an aviation course focusing on the development of flight throughout the centuries.

Leadership Education 100: Traditions, Wellness and Foundations of Citizenship

This course introduces cadets to the AFJROTC program providing a basis for progression through the rest of the AFJROTC program while instilling elements of good citizenship.

Leadership Education 500: Drill and Ceremonies

This course provides an in-depth introduction to drill and ceremonies.

Wellness Education

This is an official and integral part of AFJROTC. It consists of two exercise programs focused upon individual base line improvements with the goal of achieving a national standard as calculated by age and gender.

Required Fee/Materials: Yes

Approval Process: Yes

Army JROTC

The mission of Army Junior Reserve Officer Training Corps (AJROTC) is "To Motivate Young People to be Better Citizens". AJROTC prepares students for leadership roles while making them aware of their rights, responsibilities and privileges as Americans. To accomplish this mission, the program of instruction provides education in citizenship, leadership, life success, geography and wellness to help students succeed in high school and after graduation. The program promotes graduation from high school and provides instructional opportunities which benefit the student, community and nation. The program produces successful students and productive adults, while offering a constructive and disciplined learning environment. AJROTC is an elective course offering leadership education and physical training to high school students through four academic years, 9th through 12th grade.

Wearing the military uniform once a week is a requirement to participate in AJROTC. While in uniform, Cadets must meet the minimum appearance standards listed in the appropriate regulation, including haircut standards.

AJROTC I

KISD #: 1901

Grades: 9-12

1.0 Credit

Prerequisite:

None

Campus:

Klein Cain HS

Study leadership theory and application, foundation for success, communication/study skills, citizenship, military customs and courtesies, physical training, drill, map reading, and the history and objective of JROTC. Can be used to satisfy PE requirement.

Required Fee/Materials: Yes

Approval Process: Yes

AFJROTC 2

KISD #: 1902

Grades: 10-12

1.0 Credit

Prerequisite:

AFJROTC 1

AFJROTC 3

KISD #: 1903

Grades: 11-12

1.0 Credit

Prerequisite:

AFJROTC 2

Aerospace Science 200: The Science of Flight: A Gateway to New Horizons

This is a science course designed to acquaint the student with the aerospace environment, the human requirements of flight, principles of aircraft flight, and principles of navigation.

Aerospace Science 220: Cultural Studies: An Introduction to Global Awareness

Introduces students to the world's cultures through the study of world affairs, regional studies and cultural awareness.

Aerospace Science 300: Exploring Space: The High Frontier

Includes the latest information available in space science and space exploration. The course covers the human aspect of spaceflight, focusing on the human experience in space.

Leadership Education 200: Communication, Awareness, and Leadership

The course stresses communication skills, and cadet corps activities.

Leadership Education 300: Life Skills and Career Opportunities

The course prepares students for the diverse, high-tech, globally-oriented workplace.

Leadership Education 500: Drill and Ceremonies. Note explanation in Course 1901.

Wellness Education: Note explanation in Course 1901.

Legal system; criminal law; and law enforcement terminology and the classification and elements of crime.

Required Fee/Materials: Yes

Approval Process: Yes

AFJROTC 4

KISD #: 1904

Grades: 12

1.0 Credit

Prerequisite:

AFJROTC 3

Aerospace Science 400: Management of the Cadet Corps

Cadets manage the entire corps during their 4th year in JROTC. This hands-on experience affords the cadets the opportunity to put the theories of previous leadership courses into practice.

Aerospace Science 410: Survival: Survive--Return

Instruction provides training in skills, knowledge, and attitudes necessary to successfully perform fundamental tasks needed for survival.

Leadership Education 400: Principles of Management

Provides exposure to the fundamentals of management.

Leadership Education 500: Drill and Ceremonies. Note explanation in Course 1901.

Wellness Education: Note explanation in Course 1901.

Optional - Aerospace Science 500: Aviation Honors Ground School Program

Material covered is an advanced, more in-depth study of previous aerospace topics. The course is the foundation for students interested in earning a private pilot's license.

Required Fee/Materials: Yes

Approval Process: Yes

AJROTC II

KISD #: 1902

Grades: 10-12

1.0 Credit

Prerequisite:

AJROTC I

Campus:

Klein Cain HS

Study of wellness, fitness and first aid, drug awareness, ethical values and principles of good citizenship in American history and Government. Demonstrate knowledge of drill, map reading and physical training, with emphasis on methods of instruction.

Required Fee/Materials: Yes

Approval Process: Yes

AJROTC III

KISD #: 1903

Grades: 11-12

1.0 Credit

Prerequisite:

AJROTC II

Campus:

Klein Cain HS

Study of leadership strategies, foundation of success, managing conflict, career planning, financial planning, citizenship in American history and government with continued practical work in leadership, drill, technology awareness, and methods of instruction, map reading and physical training.

Required Fee/Materials: Yes

Approval Process: Yes

AJROTC IV

KISD #: 1904

Grades: 12

1.0 Credit

Prerequisite:

AJROTC III

Campus:

Klein Cain HS

Demonstrate leadership potential as a role model, coach, counselor, management skill and assistant instructor. Study service to the Nation and financial planning, with continue practical work in drill, technology awareness, physical training and command and staff principles.

Required Fee/Materials: Yes

Approval Process: Yes

Other CTE Course Options

TOUCH SYSTEM DATA ENTRY

KISD #: 914018 PEIMS: 13011300
 Grades: 7-10 0.5 Credit
 Prerequisite: None

Students will apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the production of business documents.

Required Fee/Materials: Yes

CAREER PREPARATION I

KISD #: 967718 PEIMS: 12701300
 Grades: 11-12 2.0 Credits

EXTENDED PRACTICUM IN CAREER PREP I

KISD #: 967618 PEIMS: 12701305
 Grades: 11-12 3.0 Credit
 Prerequisite: At least 16 years of age and valid work documentation (such as a Social Security card) and Approval Process

A work-based learning program that combines occupationally related classroom instruction and work-based experiences. Students are expected to be enrolled in the career preparation program the entire school year and must have reliable transportation to/from the training site each day. A student not employed at an approved training station prior to the ninth day of school shall have a schedule change removing him/her from the Career Preparation program. The student will receive an employer evaluation each grading period as one component of the nine week average.

Approval Process: Yes

Transportation Needed: Yes

CAREER PREPARATION II

KISD #: 967918 PEIMS: 12701400
 Grades: 12 2.0 Credits

EXTENDED PRACTICUM IN CAREER PREP II

KISD #: 967818 PEIMS: 12701405
 Grades: 12 3.0 Credit
 Prerequisite: Career Preparation I and at least 16 years of age and valid work documentation (such as a Social Security card) and Approval Process

A work-based learning program that combines occupationally related classroom instruction and work-based experiences. Students are expected to be enrolled in the career preparation program the entire school year and must have reliable transportation to/from the training site each day. A student not employed at an approved training station prior to the ninth day of school shall have a schedule change removing him/her from the Career Preparation program. The student will receive an employer evaluation each grading period as one component of the nine week average.

Approval Process: Yes

Transportation Needed: Yes

Career & Technical Education Course Index

School Year 2020-2021

Career & Technical Education, Journalism & JROTC

KEY:

Core - This course receives core credit. See counselor for detailed information.

FA = Fine Arts **SC** = Science **MC** = Math **LOTE** = Languages Other Than English

PR - Prerequisite required.

App - Approval process required. The approval process varies by course. The process may include a student interest survey and/or instructor/counselor recommendation.

CTE Course Title	Course	Cr	9th	10th	11th	12th	Core	PR	App
AC/DC Electronics	963818	1		✓	✓	✓			
AC/DC Electronics Dual Credit -Klein Forest	9640DC18	1		✓					App
Accounting I	916218	1		✓	✓	✓			
Accounting I Dual Credit-Klein Forest	9162DC18	1		✓	✓	✓		PR	App
Accounting II	916418	1			✓	✓	MC	PR	
Advanced Animal Science	907018	1			✓	✓	SC	PR	
Advanced Culinary Arts	936418	2			✓	✓		PR	
Advanced Floral Design	905718	1			✓	✓			
Advanced Journalism: Newspaper Production 1	194	1	✓	✓	✓	✓		PR	App
Advanced Journalism: Newspaper Production 2	195	1		✓	✓	✓		PR	App
Advanced Journalism: Newspaper Production 3	196	1			✓	✓		PR	App
Advanced Journalism: Yearbook Production 1	191	1	✓	✓	✓	✓		PR	App
Advanced Journalism: Yearbook Production 2	192	1		✓	✓	✓		PR	App
Advanced Journalism: Yearbook Production 3	193	1			✓	✓		PR	App
Advanced Journalism: Broadcast Production 1	176	1	✓	✓	✓	✓		PR	App
Advanced Journalism: Broadcast Production 2	177	1		✓	✓	✓		PR	App
Advanced Journalism: Broadcast Production 3	178	1			✓	✓		PR	App
Advanced Marketing	960018	2				✓		PR	
Advanced Plant and Soil Science	907118	1			✓	✓	SC	PR	
Advertising	959518	0.5		✓	✓	✓			
Agricultural Mechanics and Metal Technologies	906118	1		✓	✓				
Agricultural Structures Design and Fabrication Lab	907918	2			✓	✓		PR	
Anatomy and Physiology	927118	1			✓	✓	SC	PR	
Anatomy and Physiology Dual Credit	9271DC18	1			✓	✓	SC	PR	
Animation I	947618	1		✓	✓	✓		PR	
Animation II and Lab	947718	2			✓	✓		PR	
Architectural Design I	947218	1		✓	✓	✓		PR	

CTE Course Title	Course	Cr	9th	10th	11th	12th	Core	PR	App
Architectural Design II	947318	2			✓	✓		PR	
Automotive Basics	961118	1	✓	✓					
Automotive Technology I	961218	2		✓	✓				App
Automotive Technology I Dual Credit	9613DC18	2		✓	✓				App
Automotive Technology II	961418	2			✓	✓		PR	App
Automotive Technology II Dual Credit	9615DC18	2			✓	✓		PR	App
Banking and Financial Services	913218	0.5		✓	✓				
Business Information Management I	914418	1	✓	✓	✓	✓		PR	
Business Information Management II	915618	1		✓	✓	✓		PR	
Business Information Management II Dual Credit	9156DC18	1		✓	✓	✓		PR	
Business Law	917318	1		✓	✓	✓			
Business Law Dual Credit	9173DC18	1		✓	✓	✓			
Business Management	912518	1			✓	✓			
Business Management Dual Credit-Klein Forest	9125DC18	1			✓	✓			App
Career Preparation I	967718	2			✓	✓		PR	App
Career Preparation I Extended Practicum	967618	3			✓	✓		PR	App
Career Preparation II	967918	2				✓		PR	App
Career Preparation II Extended Practicum	967818	3			✓	✓		PR	App
Child Development	933518	1		✓	✓	✓			
Child Development - Parenting	933918	1		✓	✓	✓			
Child Guidance	933618	2			✓	✓		PR	App
Computer Aided Drafting for GIS/Land Surveying - Klein Collins	9464DC18	1		✓				PR	App
Computer Maintenance	964418	1	✓	✓					
Computer Programming I	914818	1	✓						
Computer Science 1	4900	1	✓	✓	✓			PR	
Computer Science 1 Pre-AP	4900Q	1	✓	✓	✓			PR	
Computer Science AP	4901	2		✓	✓	✓	MC/L OTE	PR	
Computer Science Principles AP	4902	1	✓	✓				PR	
Computer Science 2	4903	1		✓	✓	✓	LOTE	PR	
Computer Science 3	4906	1			✓	✓			
Computer Science – IB SL	3426	1			✓	✓		PR	App
Computer Science – IB HL	3428	2			✓	✓	MC/L OTE	PR	App
Construction Technology I	961818	2		✓	✓			PR	
Construction Technology II	962018	2			✓	✓		PR	
Correctional Services	963318	1			✓	✓		PR	
Correctional Services Dual Credit	9633DC18	1			✓	✓		PR	
Cosmetology I and Lab	962618	3			✓				App

CTE Course Title	Course	Cr	9th	10th	11th	12th	Core	PR	App
Cosmetology II and Lab	962418	2				✓		PR	
Cosmetology Careers	965418	1				✓		PR	
Court Systems and Practices	963418	1			✓	✓		PR	
Court Systems and Practices Dual Credit	9634DC18	1			✓	✓		PR	
Criminal Investigation	963618	1			✓	✓		PR	
Culinary Arts	935018	2		✓	✓	✓			
Diversified Manufacturing	965618	1		✓					
Electrical Technology I Dual Credit - Klein Forest	9605DC18	1			✓			PR	App
Electrical Technology II Dual Credit - Klein Forest	9606DC18	2				✓		PR	App
Engineer Your World I	949018	1			✓	✓		PR	
Engineering Design and Presentation I	947418	1		✓	✓	✓		PR	
Engineering Design and Presentation II	936818	2			✓	✓		PR	
Entrepreneurship	959418	1		✓	✓	✓			
Equine Science	907218	0.5		✓	✓	✓			
Family and Community Services	932618	1			✓	✓			
Fashion Design I	935618	1		✓	✓	✓			
Fashion Design II and Lab	935918	2			✓	✓		PR	
Fashion Marketing	959018	0.5		✓	✓	✓			
Federal Law Enforcement & Protective Services	963718	1			✓	✓		PR	
Financial Analysis	918618	1				✓		PR	
Financial Mathematics	919018	1		✓	✓	✓	MC	PR	
Floral Design	905318	1		✓	✓	✓	FA		
Food Technology and Safety	906718	1		✓	✓	✓			
Forensic Psychology	965318	1			✓	✓		PR	
Forensic Science	963518	1			✓	✓	SC	PR	
Forestry and Woodland Ecosystems	905818	1		✓	✓	✓			
Foundations of Cybersecurity	946218	1	✓	✓					
Geographical Information Systems Dual Credit - Klein Collins	9466DC18	1			✓			PR	App
Global Business	916818	0.5			✓	✓			
Health Science Theory/Clinical for Advanced Nursing Dual Credit - Klein High	9268DC18	1			✓			PR	App
Health Science Theory/Health Science Clinical	926918	2			✓	✓		PR	App
Horticulture Science	905018	1		✓	✓	✓			
Hospitality Services	936518	2			✓	✓			
Hotel Management	936618	1		✓	✓	✓			
Human Resources Management	918118	0.5			✓	✓			
HVAC and Refrigerator Technology I	962118	1		✓	✓				
HVAC and Refrigerator Technology II	962318	2			✓	✓			

CTE Course Title	Course	Cr	9th	10th	11th	12th	Core	PR	App
Independent Study of Journalism	0156 0157 0159	1			✓	✓		PR	App
Instructional Practices in Education and Training	933318	2			✓	✓		PR	App
Interior Design I	936018	1		✓	✓	✓			
Interior Design II	936118	2			✓	✓		PR	
Internetworking I	964718	1		✓	✓	✓			
Internetworking II	965118	1		✓	✓	✓		PR	
Interpersonal Studies	933018	0.5		✓	✓	✓			
Introduction to Welding	966718	1	✓	✓					
Journalism 1	150	1	✓	✓	✓	✓		PR	
Land Surveying Dual Credit-Klein Collins	9467DC18	1		✓				PR	App
Law Enforcement I	963018	1	✓	✓	✓	✓			
Law Enforcement II	963118	1			✓	✓		PR	
Lifetime Nutrition and Wellness	934818	0.5		✓	✓	✓			
Livestock Production	906918	1		✓	✓	✓			
Marketing – Project Based Research	947118	1				✓			
Medical Microbiology	928118	1			✓	✓	SC	PR	
Medical Terminology	927818	1		✓	✓	✓			
Medical Terminology for Advanced Nursing-Klein High	900018	1	✓						App
Money Matters	918318	1	✓	✓	✓				
Networking and Lab	965218	2			✓	✓		PR	
Pathophysiology	928218	1			✓	✓	SC	PR	
Pharmacology	926718	1			✓	✓			
Photojournalism	158	1	✓	✓	✓	✓			
Practicum in Animation	949218	2				✓		PR	
Practicum in Applied Agriculture Engineering	908618	2				✓		PR	
Practicum in Architectural Design	947518	2				✓		PR	
Practicum in Automotive Technology	961918	2				✓		PR	
Practicum in Child Guidance	933818	2				✓		PR	App
Practicum in Computer Science	946018	2				✓		PR	
Practicum in Construction Technology	961718	2				✓		PR	
Practicum in Culinary Arts	935218	2				✓		PR	
Practicum in Education and Training	933418	2				✓		PR	App
Practicum in Engineering Design	936918	2				✓		PR	
Practicum in Fashion Design	936318	2				✓		PR	
Practicum in Floral Design	905218	2				✓		PR	
Practicum in Law Enforcement	962918	2				✓		PR	App

CTE Course Title	Course	Cr	9th	10th	11th	12th	Core	PR	App
Practicum in Health Science – Certified Nursing Assistant (CNA)	927418	2				✓		PR	App
Practicum in Health Science - EMT	927618	2				✓		PR	App
Practicum in Health Science - Pharmacy Technician	927718	2				✓		PR	App
Practicum in Health Science - Advanced Nursing DC-Klein High	9266DC18	3				✓		PR	App
Practicum in Hospitality and Tourism	936718	2				✓		PR	App
Practicum in HVAC & Refrigeration	962518	2				✓		PR	
Practicum in Interior Design	936218	2				✓		PR	
Practicum in Manufacturing	966318	2				✓		PR	
Practicum in Networking	964618	2				✓		PR	
Practicum in Robotics	966418	2				✓		PR	
Practicum in Small Engine Technology	967118	2				✓		PR	
Practicum in Veterinary Medical Assisting	907618	2				✓		PR	App
Practicum in Welding	966918	2				✓		PR	App
Precision Metal Manufacturing	966218	2			✓				
Precision Metal Manufacturing II	966618	2			✓	✓		PR	
Principles of Agriculture, Food, and Natural Resources	904018	1	✓	✓					
Principles of Applied Engineering	947018	1	✓	✓	✓				
Principles of Architecture	948118	1	✓	✓	✓				
Principles of Animation	949318	1	✓	✓	✓				
Principles of Business, Marketing, and Finance	916618	1	✓	✓	✓				
Principles of Construction	961618	1	✓	✓	✓				
Principles of Education and Training	932918	1	✓	✓					
Principles of Health Science	927018	1	✓	✓	✓			PR	
Principles of Health Science for Advanced Nursing Dual Credit-Klein High	9265DC18	1		✓				PR	App
Principles of Hospitality Services	935118	1	✓	✓	✓				
Principles of Human Services	933118	1	✓	✓					
Principles of Law, Public Safety, Corrections, Security	963218	1	✓						
Principles of Manufacturing	965818	1	✓	✓					
Professional Communications	970018	0.5	✓	✓					
Project Based Research	947118	1				✓		PR	App
Range Ecology and Management	904718	1			✓	✓			
Robotics I	964118	1		✓	✓			PR	
Robotics II	964218	1			✓	✓		PR	
ROTC 1	1901	1	✓	✓	✓	✓			App
ROTC 2	1902	1	✓	✓	✓	✓			App
ROTC 3	1903	1	✓	✓	✓	✓			App
ROTC 4	1904	1	✓	✓	✓	✓			App

CTE Course Title	Course	Cr	9th	10th	11th	12th	Core	PR	App
Securities and Investments	918418	1			✓	✓			
Small Animal Management	907718	0.5		✓	✓	✓			
Small Engine Technology I	967218	1		✓	✓				
Small Engine Technology II	967418	2			✓	✓		PR	
Social Media Marketing	959218	0.5		✓	✓	✓			
Sports and Entertainment Marketing	958818	0.5		✓	✓	✓			
Touch System Data Entry	914018	0.5	✓	✓					
Veterinary Medical Applications	907418	1			✓	✓		PR	
Video Game Design	915118	1	✓	✓					
Welding I	966818	2		✓	✓	✓			
Welding II	967018	2			✓	✓		PR	
Wildlife, Fisheries and Ecology Management	904618	1		✓	✓	✓			
World Health Research	928018	1			✓	✓		PR	
CTED Business Information Management I	563818	1	✓	✓	✓	✓		PR	App
CTED Floral Design	566818	1	✓	✓	✓	✓	FA		App
CTED Greenhouse Operations and Production	563518	1	✓	✓	✓	✓			App
CTED Horticulture Science	563318	1	✓	✓	✓	✓			App
CTED Lifetime Nutrition and Wellness	562118	1	✓	✓	✓	✓			App
CTED Money Matters	564018	1	✓	✓	✓	✓			App
CTED Automotive Basics	566218	1	✓	✓	✓	✓			App
CTED Principles of Human Services	564518	1	✓	✓					App
CTED Professional Communications	566718	0.5	✓	✓					App
CTED Small Engine Technology I	562418	2	✓	✓	✓	✓			App
CTED Small Engine Technology I	562618	1	✓	✓	✓	✓			App
CTED Small Engine Technology II	563018	1	✓	✓	✓	✓		PR	App
CTED Small Engine Technology II	562818	2	✓	✓	✓	✓		PR	App
CTED Touch System Data Entry	563618	0.5	✓	✓	✓	✓			App
CTED Welding	566418	2	✓	✓	✓	✓			App

Career & Technical Education Course Fees

CTE Course	Course #	Fee	Purpose
AC/DC Electronics	963818	\$15.00	project materials
Advanced Culinary	936418	\$50.00	groceries
Advanced Floral Design	905718	\$100.00	floral design project materials
Animation I	947618	\$15.00	project materials
Animation II	947718	\$15.00	project materials
Automotive Technology I	961218	\$50.00	safety glasses, dust masks, ear plugs, clothing and consumable supplies
Automotive Technology I - Dual Credit	9613DC18	\$50.00	safety glasses, dust masks, ear plugs, clothing and consumable supplies
Automotive Technology II	961418	\$50.00	safety glasses, dust masks, ear plugs, clothing and consumable supplies
Automotive Technology II - Dual Credit	9615DC18	\$50.00	safety glasses, dust masks, ear plugs, clothing and consumable supplies
Automotive Technology Practicum	961918	\$50.00	safety glasses, dust masks, ear plugs, clothing and consumable supplies
Business Information Management I	914418	\$10.00	consumable supplies
Business Information Management II	915618	\$10.00	consumable supplies
Business Information Management II-Dual Credit	9156DC18	\$10.00	consumable supplies
Child Guidance	933618	\$25.00	t-shirt for teaching
Computer Maintenance	964418	\$15.00	SD card
Computer Programming	914818	\$6.00	consumable supplies
Cosmetology I	962618	\$305.00	Deposit for Junior Kit comprised of tools and equipment to get started in the cosmetology industry (manikin, supplies, lab coat, uniform shirt.).
Cosmetology I	962618	\$305.00	Remaining balance for Junior Kit.
Cosmetology II	962418	\$305.00	Remaining balance for Senior Kit.

CTE Course	Course #	Fee	Purpose
Cosmetology II Lab	962418	\$305.00	Deposit for Senior Kit comprised of tools and equipment to get started in the cosmetology industry (manikin, supplies, lab coat, uniform shirt.).
CTED Business Information Management I	563618	\$10.00	consumable supplies
CTED Touch System Data Entry	563818	\$6.00	consumable supplies
Culinary Arts	935018	\$75.00	hat, coat, pants, apron, shoes, food
Electrical Technology I- Dual Credit	9605DC18	\$10.00	safety glasses, dust masks, ear plugs
Engineer Your World	949018	\$35.00	supplies, safety glasses, dust masks, ear plugs
Engineering Design I	947418	\$25.00	safety glasses, dust masks, ear plugs and consumable supplies
Engineering Design II	936818	\$25.00	safety glasses, dust masks, ear plugs and consumable supplies
Fashion Design I	935618	\$26.00	Fashion project supplies
Fashion Design II	935918	\$26.00	Fashion project supplies
Floral Design	905318	\$100.00	floral design project materials
Food Technology & Safety	906718	\$100.00	groceries
Health Science Theory/Clinical	926918	\$14.00	malpractice insurance
Health Science Theory/ Clinical - Dual Credit	9268DC18	\$14.00	malpractice insurance
Instructional Practices in Education and Training	933318	\$50.00	class shirts for teaching
Interior Design I	936018	\$30.00	consumable supplies
Interior Design II	936118	\$50.00	consumable supplies
Lifetime Nutrition and Wellness	934818	\$30.00	consumable supplies and groceries
Practicum in Animation	949218	\$15.00	project materials

CTE Course	Course #	Fee	Purpose
Practicum in Culinary Arts	935218	\$50.00	Groceries
Practicum in Education and Training	933418	\$25.00	consumable supplies
Practicum in Engineering	936918	\$25.00	safety glasses, dust masks, ear plugs and consumable supplies
Practicum in Health Science - EMT	927618	\$251.00	fees to be paid to EMS provider
Practicum in Health Science - Pharm Tech	927718	\$30.00	fee is for the PTCE practice test.
Practicum in Law Enforcement	962918	\$75.00	uniform t-shirt; supplies for projects & field experiences
Practicum in Robotics	966418	\$20.00	consumable supplies
Practicum in Welding	966918	\$25.00	safety glasses, dust masks, ear plugs and consumable supplies
Practicum of Floral Design	905218	\$150.00	floral design project materials
Principles of Animation	949318	\$15.00	project materials
Principles of Applied Engineering	947018	\$15.00	consumable supplies
Principles of Hospitality & Tourism	935118	\$30.00	consumable supplies and groceries
Principles of Human Services	933118	\$30.00	consumable supplies and groceries
Robotics I	964118	\$20.00	consumable supplies
Robotics II	964218	\$20.00	consumable supplies
Touch System Data Entry	914018	\$6.00	consumable supplies
Welding I	966818	\$25.00	safety glasses, dust masks, ear plugs and consumable supplies
Welding II	967018	\$25.00	safety glasses, dust masks, ear plugs and consumable supplies

CTE Courses for Students with Disabilities

CTED FLORAL DESIGN

KISD #: 566818 **PEIMS:** 13001800
Grades: 9-12 **1.0 Credit/Fine Arts Credit Option**
Prerequisite: Recommendation of ARD Committee

Students will develop entry-level employment skills to work in the floral industry. The course focuses on floral design in relation to arrangement of flowers, foliage, and related plant materials for interior locations. Students will be responsible for purchasing materials or assessed a fee associated with this course.

Required Fee/Materials: Yes

CTED GREENHOUSE OPERATIONS & PRODUCTION

KISD #: 563518 **PEIMS:** 13002050
Grades: 9-12 **1.0 Credit**
Prerequisite: Recommendation of ARD Committee

Students will develop entry-level employment skills to work in a greenhouse. The course focuses on all aspects of a greenhouse including; managing, repairing, operating and general use of a greenhouse in production.

CTED HORTICULTURE SCIENCE

KISD #: 563318 **PEIMS:** 13002000
Grades: 9-12 **1.0 Credit**
Prerequisite: Recommendation of ARD Committee

Students will develop entry-level employment skills to work in the horticulture industry. The course emphasizes greenhouse and nursery crop production; landscaping; and fruit, nut, and vegetable crop production.

CTED PROFESSIONAL COMMUNICATIONS

KISD #: 566718 **PEIMS:** 13009900
Grades: 9-12 **0.5 Credit**
Prerequisite: Recommendation of ARD Committee

Students will participate in a career development course to develop an understanding of professional communications through exploration of the career clusters. Students will explore a variety of career options and activities including formal and informal presentations, resume writing, and job interviewing. Students will exhibit public relations skills, leadership characteristics, knowledge of the global economy, and information technology applications.

CTED MONEY MATTERS

KISD #: 564018 **PEIMS:** 13016200
Grades: 9-11 **1.0 Credit**
Prerequisite: Recommendation of ARD Committee

Students will investigate money management from a personal financial perspective. Students will examine various methods of achieving short-term and long-term financial goals through various methods such as investing, tax planning, asset allocating, risk management, retirement planning, and estate planning.

CTED BUSINESS INFORMATION MANAGEMENT I

KISD #: 563818 **PEIMS:** 1311400
Grades: 9-12 **1.0 Credit**
Prerequisite: Recommendation of ARD Committee and either Touch System Data Entry or CTED Touch System Data Entry

Students apply technical skills to address business applications such as creating word-processing documents, developing spreadsheets, formulating databases, and making an electronic presentation using Microsoft Office applications.

Required Fee/Materials: Yes

CTED TOUCH SYSTEM DATA ENTRY

KISD #: 563618 **PEIMS:** 13011300
Grades: 9-12 **0.5 Credit**
Prerequisite: Recommendation of ARD Committee

Students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students will need to apply touch system data entry for production of business documents.

Required Fee/Materials: Yes

CTED PRINCIPLES OF HUMAN SERVICES

KISD #: 564518 **PEIMS:** 13024200
Grades: 9-12 **1.0 Credit**
Prerequisite: None

Students will gain knowledge and skills related to personal human development. Instruction enables students to investigate careers in the human services career cluster, including early childhood development, family and community, mental health and personal care services. Content includes decision-making, positive relationships, child development, nutrition and food production, finance, and personal grooming as it relates to personal and professional settings.

Required Fee/Materials: Yes

CTED LIFETIME NUTRITION & WELLNESS

KISD #: 562118 **PEIMS:** 13024500
Grades: 9-12 **1.0 Credit**
Prerequisite: None

Students will gain knowledge of the roles of nutrients in the body and develop an understanding of lifetime wellness and nutrition principles. Students are encouraged to apply these principles in making educated choices that promote lifelong wellness. Students will demonstrate knowledge of nutrition and effective work habits such as cooperation, responsibility, time management and problem solving in the foods laboratory and classroom.

CTED WELDING

KISD #: 566418

PEIMS: 13032300

Grades: 9-12

2.0 Credits

Prerequisite:

Approval of ARD Committee

This sequential two-year program is designed to prepare students to be skilled workers and to understand, perform and supervise or inspect a wide variety of welding processes, including gas welding, brazing, flame cutting, plasma cutting, shielded metal arc welding and resistance welding. Introduction to gas metal arc welding, gas tungsten arc welding and flux core welding will also be explored. Students will develop a basic understanding of design for welding fabrication, an understanding of the cost and economics of various types welding. Students are introduced to the methods of nondestructive and destructive inspection of welds and welded products. Students must successfully complete a written safety exam.

Required Fee/Materials: Yes

Note: Offered at Klein High School only

CTED AUTOMOTIVE BASICS

KISD #: 566218

PEIMS: 13039550

Grades: 9-10

1.0 Credit

Prerequisite:

None

Students will learn basic automotive systems, the theory and principles of the components that make up each system, and how to service these systems, including applicable safety and environmental rules and regulations. The focus of this course is to teach safety, tool identification, proper tool use, and employability. Students must successfully complete a written safety exam.

Required Fee/Materials: Yes

CTED SMALL ENGINE TECHNOLOGY I

*Credit Options vary by campus

KISD #: 562418

PEIMS: 13040000

Grades: 9-12

2.0 Credits

Prerequisite:

Approval of ARD Committee

KISD #: 562618

Grades: 9-12

1.0 Credit

Prerequisite:

Approval of ARD Committee

This sequential two-year program is designed to provide training for entry-level employment in the air and liquid cooled engine technology industry. Skills developed include knowledge of the function, limited diagnosis and service of the systems and components of all types of lawn care equipment and irrigation engines. Students will receive instruction in safety, academic, leadership skills and career opportunities. Students must successfully complete a written safety exam.

Required Fee/Materials: Yes

Note: Offered at Klein High and Klein Oak High Schools

Required Fee/Materials: Yes

Arts & Humanities Endorsement

VISUAL ART

ART 1

KISD #: 3100

Grades: 9-12

1 Credit

Prerequisite:

None

Art 1 is a foundation course for the novice or for students with some experience. Students will have the opportunity to develop their own artistic style by creating original artworks in drawing, painting, printmaking, sculpture, and mixed media with an emphasis on studio production. Each student will demonstrate progress over time by developing a body of original artwork and organizing a portfolio. A course fee is required.

Only one unit of credit is available at the Art 1 level.

Up to two units of credit are available at the Art 2 level. Selections may be made from the following courses.

ART 2 - DRAWING

KISD #: 3104

Grades: 10-12

1 Credit

Prerequisite:

Successful completion of Art 1 and portfolio review if Art 1 was taken at the middle school level

Art 2 Drawing is an intermediate course that builds on the skills and concepts explored in Art 1. Studio experiences in the classroom will give students opportunities to experience a variety of drawing media such as pencil, pen, ink, charcoal, pastel, as well as various types of paint while further developing the student's individual style with an emphasis on studio production. Each student will demonstrate progress over time by developing a body of original artwork and organizing a portfolio. A course fee is required.

ART 2 – DIGITAL ART & MEDIA

KISD #: NEW

Grades: 10-12

1 Credit

Prerequisite:

Successful completion of Art 1 and portfolio review if Art 1 was taken at the middle school level

Students explore innovative methods and means of creating original, electronically generated artwork using digital and other new contemporary media tools, while building upon traditional art concepts and processes. Students build a visual digital portfolio throughout the course. Careers in the field of digital media are introduced. Students are responsible for the cost of materials used in products they take home. A course fee is required.

ART 2 - PAINTING

KISD #: 3105

Grades: 10-12

1 Credit

Prerequisite:

Successful completion of Art 1 and portfolio review if Art 1 was taken at the middle school level

Art 2 Painting is an intermediate course that builds on the skills and concepts explored in Art 1. Studio experiences in the classroom will give students opportunities to explore a variety of painting techniques and processes while further developing the student's individual style with an emphasis on studio production. Each student will demonstrate progress over time by developing a body of original artwork and organizing a portfolio. A course fee is required.

ART 2 - PHOTOGRAPHY

KISD #: 3106

Grades: 10-12

1 Credit

Prerequisite:

Successful completion of Art 1 and portfolio review if Art 1 was taken at the middle school level

Art 2 Photography is a foundation course that expands on the skills and concepts explored in Art 1. Studio experiences in the classroom will give students opportunities to explore a variety of photographic techniques and processes while further developing the student's individual style with an emphasis on studio production. Training in camera and equipment operation will be provided. Each student will demonstrate progress over time by developing a body of original artwork and organizing a portfolio. A course fee is required.

ART 2 - CERAMICS

KISD #: 3107

Grades: 10-12

1 Credit

Prerequisite:

Successful completion of Art 1 and portfolio review if Art 1 was taken at the middle school level

Art 2 Ceramics is an intermediate course that builds on the skills and concepts explored in Art 1. Studio experiences in the classroom will give students opportunities to explore a variety of ceramic techniques and processes while further developing the student's individual style. Techniques will include basic hand building and glazing with an emphasis on studio production. Each student will demonstrate progress over time by developing a body of original artwork and organizing a portfolio. A course fee is required.

ART 2 - SCULPTURE

KISD #: 3108

Grades: 10-12

1 Credit

Prerequisite: Successful completion of Art 1 and portfolio review if Art 1 was taken at the middle school level

Art 2 Sculpture is an intermediate course that builds on the skills and concepts explored in Art 1. Studio experiences in the classroom will give students opportunities to explore a variety of sculpture techniques and processes while further developing the student's individual style. Students will work from a variety of subject matter using both additive and subtractive sculptural methods with materials such as clay, wire, papier mache and found objects emphasizing studio production. Each student will demonstrate progress over time by developing a body of original artwork and organizing a portfolio. A course fee is required.

ART 3 LEVEL COURSES

Grades: 10-12

1 Credit

Prerequisite: Successful completion of a parallel Art 2 course

Up to three units of credit from varied combinations of courses listed below are available at the Art 3 level. All Art 3 level courses are advanced and place a strong focus on technique, personal voice, and creativity. Students are directed to work on independent projects. These courses will emphasize students creating original artwork for exhibition and/or portfolio purposes. A course fee is required.

Art 3 - Drawing (1 Unit) (3110)

Art 3 - Ceramics (1 Unit) (3113)

Art 3 - Painting (1 Unit) (3111)

*Art 3 - Photography (1 Unit) (3116)

Art 3 - Sculpture (1 Unit) (3114)

**In photography, students must supply their own non-automatic, 35mm camera, film, and supplies. Klein Cain High School students must supply their own digital camera.*

ART 3: DIGITAL ART & MEDIA

Grades: 10-12

1 Credit

Prerequisite: Successful completion of a parallel Art 2 course

Students focus on an increasingly deeper understanding and mastery of skills and techniques introduced in Art 2: Digital Art & Media. Students continue to use digital and other new media tools experimentally to create original electronically generated artwork that amplifies and extends image making beyond traditional techniques. Students build a visual digital portfolio throughout the course. Students are responsible for the cost of materials used in products they take home. A course fee is required.

ART 4 LEVEL COURSES

Grades: 11-12

1 Credit

Prerequisite: Successful completion of a parallel Art 3 course

Up to three units of credit from varied combinations of courses listed below are available at the Art IV level. All Art 4 level courses are advanced and place a strong focus on technique, personal voice, and creativity. Students are directed to work on independent projects focusing on a concentration of the student's choosing with a variety of media. These courses will emphasize students creating original artwork for exhibition and/or portfolio purposes. A course fee is required. **Students are responsible for the cost of materials used in products they take home.**

Art 4 - Drawing (1 Unit) (3121)

Art 4 - Painting (1 Unit) (3122)

Art 4 - Ceramics (1 Unit) (3124)

*Art 4 - Photography (1 Unit) (3127)

Art 4 - Sculpture (1 Unit) (3125)

**In photography, students must supply their own non-automatic, 35mm camera, film, and supplies. Klein Cain High School students must supply their own digital camera.*

Any Art Level 4 course receives advanced grade points.

ART 4: DIGITAL ART & MEDIA

Grades: 11-12

1 Credit

Prerequisite: Successful completion of a parallel Art 3 course

Students focus on an increasingly deeper understanding and mastery of skills and techniques introduced in Art 3: Digital Art & Media. Students continue to use digital and other new media tools experimentally to create original electronically generated artwork that amplifies and extends image making beyond traditional techniques. Students build a visual digital portfolio throughout the course. Students are responsible for the cost of materials used in products they take home. A course fee is required. **Any Art Level 4 course receives advanced grade points.**

ART 4 ADVANCED PLACEMENT 2 DIMENSIONAL DESIGN PORTFOLIO

KISD #: 3132

Grades: 11-12

1 Credit

Prerequisite:

Successful completion of any Art 3 course and portfolio review

The Art 4 Advanced Placement Two-Dimensional Design Portfolio course is for highly motivated students who will create original college-level artwork. Students will create a portfolio for submission to the AP College Board for assessment and potential college credit. Students will have the freedom to choose the media and style in order to create artworks relevant to their portfolio concentration. The portfolio will demonstrate a body of work in mastery of concept, composition, and execution.

Works presented in the portfolio may have been produced in art classes or on the student's own time and may cover a period longer than a single school year. Work presented in an AP portfolio may not be included in other AP portfolios. A course fee is required.

Candidates will send a portfolio of artworks to the AP College Board. The portfolio is submitted as both original artworks and digital images along with a written statement defining the focus of concentration.

Students are responsible for the cost of materials used in products they take home and for preparing artwork included in the portfolio as well the AP examination fee.

Any Art Level 4 course receives advanced grade points.

ART 4 ADVANCED PLACEMENT 3 DIMENSIONAL DESIGN PORTFOLIO

KISD #: 3134

Grades: 11-12

1 Credit

Prerequisite:

Successful completion of any Art 3 course and portfolio review

The Art 4 Advanced Placement Three-Dimensional Portfolio course is for highly motivated students who will create original college-level artwork. Students will create a portfolio for submission to the AP College Board for assessment and potential college credit. Students will have the freedom to choose the media and style in order to create artworks relevant to their portfolio concentration. The portfolio will demonstrate a body of work in mastery of concept, composition, and execution. A variety of approaches might include jewelry, traditional sculpture, architectural models, apparel, ceramics, fiber arts, or metal works.

Works presented in the portfolio may have been produced in art classes or on the student's own time and may cover a period longer than a single school year. Work presented in an AP portfolio may not be included in other AP portfolios. A course fee is required.

Candidates will send a portfolio of artwork to the AP College Board. The portfolio is submitted as both original artworks and digital images along with a written statement defining the focus of concentration.

Students are responsible for the cost of materials used in products they take home and for preparing artwork included in their portfolio as well as the AP examination fee.

Any Art Level 4 course receives advanced grade points.

ART 4 ADVANCED PLACEMENT DRAWING PORTFOLIO

KISD #: 3131

Grades: 11-12

1 Credit

Prerequisite:

Successful completion of any Art 3 course and portfolio review

The Art 4 Advanced Placement Drawing Portfolio course is for highly motivated students who will create original college-level artwork. Students will create a portfolio for submission to the AP College Board for assessment and potential college credit. Students will have the freedom to choose the media and style in order to create artworks relevant to their portfolio concentration. The portfolio will demonstrate a body of work in mastery of concept, composition, and execution.

Works presented in the portfolio may have been produced in art classes or on the student's own time and may cover a period longer than a single school year. Work presented in an AP portfolio may not be included in other AP portfolios. A course fee is required.

Candidates will send a portfolio of artworks to the AP College Board. The portfolio is submitted as both original artworks and digital images along with a written statement defining the focus of concentration.

Students are responsible for the cost of materials used in products they take home and for preparing artwork included in their portfolio as well as the AP examination fee.

Any Art Level 4 course receives advanced grade points.

(Advanced placement in Visual Arts and Theatre Arts courses requires demonstrated mastery of essential elements of prerequisite courses and exceptional talent.)

2-D Design Portfolio		
Section I: QUALITY (Selected Works) One-third of total score 5 actual works. Works demonstrating an understanding of two-dimensional design in concept, composition, and execution.	Section II: CONCENTRATION (Sustained Investigation) One-third of total score 12 digital images; some may be details. Works describing an in-depth exploration of a particular 2-D design concern.	Section III: BREADTH (Range of Approaches) One-third of total score 12 digital images; 1 image each of 12 different works. A variety of works demonstrating understanding of 2-D design issues.
Drawing Portfolio		
Section I: QUALITY (Selected Works) One-third of total score 5 actual works. Works demonstrating understanding of drawing in concept, composition, and execution.	Section II: CONCENTRATION (Sustained Investigation) One-third of total score 12 digital images; some may be details. Works describing an in-depth exploration of a particular drawing concern.	Section III: BREADTH (Range of Approaches) One-third of total score 12 digital images; 1 image each of 12 different works. A variety of works demonstrating understanding of drawing issues.
3-D Design Portfolio		
Section I: QUALITY (Selected Works) One-third of total score 10 digital images, consisting of 2 views each of 5 works. Works demonstrating an understanding of three-dimensional design in concept, composition, and execution.	Section II: CONCENTRATION (Sustained Investigation) One-third of total score 12 digital images; some may be details or second views. Works describing an in-depth exploration of a particular 3-D design concern.	Section III: BREADTH (Range of Approaches) One-third of total score 16 digital images; 2 views each of 8 different works. A variety of works demonstrating understanding of 3-D design issues.

IB ART DESIGN SL/HL

KISD #: 3466, 3465

Grades: 11-12

1 Credit

Prerequisite:

One year of art grade 9 or 10

The IB Art/Design course is designed to give the students an opportunity to develop and present a personal visual art statement contained in a portfolio and research workbook. They will be expected to incorporate acquired skills, a variety of media and methods, critical thinking, increased awareness of both immediate and global environment, imagination and creativity. Art History, criticism and aesthetics will be an integral part of the curriculum. The Art/Design program will provide opportunities for development of a portfolio and research workbook, which demonstrate an understanding of technical skills, creativity, visual awareness, studio production, and pursuit of quality.

IB Art/Design Program will provide the student the opportunity to complete the Standard Level or to begin the Higher-Level course at the junior level. IB candidates who choose the Standard Level will select from Option A (70% Studio Work and 30% Research Workbooks) or Option B (70% Research Workbooks and 30% Studio Work). The Standard Level may be completed as a junior or senior. Senior students working for the Higher-Level Options (70% Studio Work and 30% Research Workbooks) will begin work on the Higher Level as a junior, but must complete another two semesters during their senior year to satisfy necessary hours. A course fee is required. ***Students are responsible for the cost of materials used in products they take home.***

ART HISTORY ADVANCED PLACEMENT

KISD #: 3136P

Grades: 11-12

1 Credit

Prerequisite:

Teacher Approval

Students will develop an understanding and knowledge of architecture, sculpture, painting, and other art forms within diverse historical and cultural contexts. The elements of art, fundamental art historical terminology, and the technical process used in the production of artwork will also be studied. This course will prepare students for the College Board Advanced Placement Art History examination. A course fee is required.

FLORAL DESIGN

KISD #: 905318

TX #: 13002000

Grades: 10-12

1.0 Credit/CTE Course for Fine Arts Credit

Prerequisite:

None

Students will develop and examine floral design in relation to arrangement of flowers, foliage, and related plant materials for interior locations. This course incorporates business practices and careers in the floral industry. Students will be responsible for purchasing materials or assessed a fee associated with this course. A course fee is required. This course is also listed in the CTE section of the Catalog.

Required Fee/Materials: Yes

Industry Certification: Texas State Floral Association (TSFA) Level 1

THEATRE ARTS THEATRE ARTS 1

KISD #: 3299

Grades: 9-12

1 Credit

Prerequisite:

None

Theatre Arts 1 is a foundation course, which provides a general introduction and exploration of theatre as a performing art. Students explore plays from the perspectives of actors and directors, and examine the strategies of playwrights to develop the ability to imagine the play in performance and to appreciate the range of theatre possibilities.

The course focuses on the expressive use of the body and voice, acting concepts and skills, theatre production concepts and skills, and aesthetic growth through appreciation of theatrical events. Students explore relaxation and preparatory techniques, pantomime, stage movement, voice and diction, improvisation, dramatic structure, analysis and interpretation of scripts and characters, interdependence of all theatrical elements, technical theatre, appreciation of theatre, audience etiquette, and the analysis and evaluation of theatrical experiences. A course fee is required.

THEATRE ARTS 2

KISD #: 3300

Grades: 9-12

1 Credit

Prerequisite:

Successful completion of the previous level of Theatre Arts or Theatre Production

Theatre Arts 2 focuses on an increasingly deeper understanding of theatre concepts and acting skills introduced in the Theatre Arts 1 course. The course includes utilization of advanced characterization, exploration of classical and contemporary production styles, investigation and recognition of theatre career opportunities, exploration of specialized theatrical styles, development of directing and playwriting techniques, attendance at live theatrical experiences, and analysis and evaluation of theatrical experiences. A course fee is required.

THEATRE ARTS 3

KISD #: 3301

Grades: 9-12

1 Credit

Prerequisite:

Successful completion of the previous level of Theatre Arts or Theatre Production

Theatre Arts 3 focuses on an increasingly deeper understanding of theatre concepts and acting skills introduced in the Theatre Arts 2 course. The course includes utilization of advanced characterization, exploration of classical and contemporary production styles, investigation and recognition of theatre career opportunities, exploration of specialized theatrical styles, development of directing and playwriting techniques, attendance at live theatrical experiences, and analysis and evaluation of theatrical experiences and design; public relations designs in traditional and digital media; and, the recognition of career opportunities in technical theatre. A course fee is required.

THEATRE ARTS 4

KISD #: 3302

Grades: 9-12

1 Credit

Prerequisite:

Successful completion of the previous level of Theatre Arts or Theatre Production

Theatre Arts 4 focuses on an increasingly deeper understanding of theatre concepts and acting skills introduced in the Theatre Arts 3 course. The course includes utilization of advanced characterization, exploration of classical and contemporary production styles, investigation and recognition of theatre career opportunities, exploration of specialized theatrical styles, development of directing and playwriting techniques, attendance at live theatrical experiences, and analysis and evaluation of theatrical experiences. A course fee is required. **Any Theatre Level 4 course receives advanced grade points.**

TECHNICAL THEATRE

TECHNICAL THEATRE 1

KISD #: 3303

Grades: 9-12

1 Credit

Prerequisite:

None

Technical Theatre 1 is a foundation course which provides a general introduction and exploration of structural facets of theatre arts. The course includes development of stage craft skills; practice with theatre safety techniques; exploration of scenery, properties, lighting, costumes, makeup, sound, and technical theatre research and design; exploration of public relations; and, the recognition of career opportunities in technical theatre. A course fee is required.

TECHNICAL THEATRE 2

KISD #: 3304

Grades: 9-12

1 Credit

Prerequisite:

Successful completion of the previous level of technical theatre or screenplay

Technical Theatre 2 focuses on an increasingly deeper understanding of the practical application of theatre concepts and skills introduced in the Technical Theatre 1 course. The course encompasses development of stagecraft skills beyond the basic level including exploration of scenery, properties, lighting, costumes, makeup, and sound with increasing levels of technical mastery and sophistication; greater depth of technical theatre research and design; public relations designs in traditional and digital media; and, the recognition of career opportunities in technical theatre. A course fee is required.

TECHNICAL THEATRE 3

KISD #: 3305

Grades: 9-12

1 Credit

Prerequisite: Successful completion of the previous level of technical theatre or screenplay

Technical Theatre 3 focuses on an increasingly deeper understanding of the practical application of theatre concepts and skills introduced in the Technical Theatre 2 course. The course encompasses development of stagecraft skills beyond the previous level including exploration of scenery, properties, lighting, costumes, makeup, and sound with increasing levels of technical mastery and sophistication; greater depth of technical theatre research. A course fee is required.

TECHNICAL THEATRE 4

KISD #: 3306

Grades: 9-12

1 Credit

Prerequisite: Successful completion of the previous level of technical theatre or screenplay

Technical Theatre 4 focuses on an increasingly deeper understanding of the practical application of theatre concepts and skills introduced in the Technical Theatre 3 course. The course encompasses development of stagecraft skills beyond the previous level including exploration of scenery, properties, lighting, costumes, makeup, and sound with increasing levels of technical mastery and sophistication; greater depth of technical theatre research and design; public relations designs in traditional and digital media; and, the recognition of career opportunities in technical theatre. A course fee is required.

Any Theatre Level 4 course receives advanced grade points.

TECHNICAL THEATRE 1(S)

KISD #: 3311

Grades: 9-12

1 Credit

Prerequisite: Audition (acting) or Technical Portfolio Review (or exam)

Technical Theatre 1 (S) is a foundation course similar to Technical Theatre I while exploring the material in greater depth through student participation in preparation and presentation of campus productions after school.

The course includes development of stagecraft skills; practice with theatre safety techniques; exploration of scenery, properties, lighting, costumes, makeup, sound, and technical theatre research and design; exploration of public relations; and, the recognition of career opportunities in technical theatre. A course fee is required.

TECHNICAL THEATRE 2(S)

KISD #: 3312

Grades: 9-12

1 Credit

Prerequisite: Audition (acting) or Technical Portfolio Review (or exam)

Technical Theatre 2(S), focuses on an increasingly deeper understanding of the practical application of acting and theatre concepts and skills introduced in the Technical Theatre 1(S) course. The course encompasses development of stagecraft skills beyond the basic level including exploration of scenery, properties, lighting, costumes, makeup, and sound with increasing levels of technical mastery and sophistication; greater depth of technical theatre research and design; active design of public relations designs in traditional and digital media; and, the recognition of career opportunities in technical theatre.

The after school time dedicated to the preparation and public performances of student productions provides practical hands-on experiences in stagecraft and supplements the theatre courses that concentrate on theories, information and performance techniques. A course fee is required.

STAGECRAFT

KISD #: 3313

Grades: 9-12

1 Credit

Prerequisite: Audition (acting) or Technical Portfolio Review (or exam)

Stagecraft focuses on an increasingly deeper understanding of the practical application of acting and theatre concepts and skills introduced in the Technical Theatre 1 course. The course includes development of stagecraft skills beyond the previous level through exploration of scenery, properties, lighting, costumes, makeup, and sound with increasing levels of technical mastery and sophistication; greater depth of technical theatre research and design; public relations designs in traditional and digital media; and, the recognition of career opportunities in technical theatre.

The after school time dedicated to the preparation and public performances of student productions provides practical hands-on experiences in stagecraft and supplements the theatre courses that concentrate on theories, information and performance techniques. A course fee is required.

ADVANCED STAGECRAFT

KISD #: 3314

Grades: 9-12

1 Credit

Prerequisite: Successful completion of the previous level of technical theatre or scenography and technical portfolio review

Advanced Stagecraft focuses on an increasingly deeper understanding of the practical application of acting and theatre concepts and skills introduced in the Technical Theatre 1 course. The course includes development of stagecraft skills beyond the previous level through exploration of scenery, properties, lighting, costumes, makeup, and sound with increasing levels of technical mastery and sophistication; greater depth of technical theatre research and design; public relations designs in traditional and digital media; and, the recognition of career opportunities in technical theatre. A course fee is required.

The after school time dedicated to the preparation and public performances of student productions provides practical hands-on experiences in stagecraft and supplements the theatre courses that concentrate on theories, information and performance techniques. A course fee is required.

Any Theatre 4 Level course receives advanced grade points.

THEATRE MANAGEMENT 3

KISD #: 3315

Grades: 11-12

1 Credit

Prerequisite: Successful completion of Theatre 1 and 2

Theatre Management focuses on increasing deeper understanding of the structure of a theatre as a business. The course encompasses stage management from set building to opening a production, publicity in the modern age, marketing, budgeting, and scheduling of theatrical productions. Additionally, students will gain a working knowledge of various theatre positions that are required to make a theatre company successful. A course fee is required.

ADVANCED THEATRE MANAGEMENT 4

KISD #: 3316

Grades: 11-12

1 Credit

Prerequisite: Successful completion of Theatre 1 and 2

Theatre Management focuses on increasing deeper understanding of the structure of a theatre as a business. The course encompasses stage management from set building to opening a production, publicity in the modern age, marketing, budgeting, and scheduling of theatrical productions. Additionally, students will gain a working knowledge of various theatre positions that are required to make a theatre company successful. A course fee is required.

THEATRE PRODUCTION 1

KISD #: 3307

Grades: 9-12

1 Credit

Prerequisite: Audition (acting) or Technical Portfolio Review (or exam)

Theatre Production 1 is a foundation course similar to Theatre Arts I while exploring the material in greater depth through student participation in preparation and presentation of campus productions after school. The course focuses on the expressive use of the body and voice, development of acting and theatre production concepts and skills, and appreciation of theatrical events. Students investigate relaxation and preparatory techniques, pantomime, stage movement, voice and diction, improvisation, dramatic structure, analysis and interpretation of scripts and characters, interdependence of all theatrical elements, technical theatre, appreciation of theatre, audience etiquette, and the analysis and evaluation of theatrical experiences. A course fee is required.

THEATRE PRODUCTION 2

KISD #: 3308

Grades: 9-12

1 Credit

Prerequisite: Successful completion of Theatre Production 1 and Audition or Technical Portfolio Review

Theatre Production 2 focuses on an increasingly deeper understanding of the acting and theatre concepts and skills introduced in the Theatre Production 1 course. The course includes utilization of advanced characterization, exploration of classical and contemporary production styles, investigation and recognition of theatre career opportunities, exploration of specialized theatrical styles, development of directing and playwriting techniques, attendance at live theatrical experiences, and analysis and evaluation of theatrical experiences.

The after school time dedicated to the preparation and public performances of student productions provides practical hands-on experiences in stagecraft and supplements the theatre courses that concentrate on theories, information, and performance techniques. A course fee is required.

THEATRE PRODUCTION 3

KISD #: 3309

Grades: 9-12

1 Credit

Prerequisite: **Successful completion of Theatre Production 2 and Audition or Technical Portfolio Review**

Theatre Production 3 focuses on an increasingly deeper understanding of the acting and theatre concepts and skills introduced in the Theatre Production 2 course. The course includes utilization of advanced characterization, exploration of classical and contemporary production styles, investigation and recognition of theatre career opportunities, exploration of specialized theatrical styles, development of directing and playwriting techniques, attendance at live theatrical experiences, and analysis and evaluation of theatrical experiences.

The after school time dedicated to the preparation and public performances of student productions provides practical hands-on experiences in stagecraft and supplements the theatre courses that concentrate on theories, information, and performance techniques. A course fee is required.

THEATRE PRODUCTION 4

KISD #: 3310

Grades: 9-12

1 Credit

Prerequisite: **Successful completion of Theatre Production 3 and Audition or Technical Portfolio Review**

Theatre Production 4 focuses on an increasingly deeper understanding of the acting and theatre concepts and skills introduced in the Theatre Production 3 course. The course includes utilization of advanced characterization, exploration of classical and contemporary production styles, investigation and recognition of theatre career opportunities, exploration of specialized theatrical styles, development of directing and playwriting techniques, attendance at live theatrical experiences, and analysis and evaluation of theatrical experiences.

The after school time dedicated to the preparation and public performances of student productions provides practical hands-on experiences in stagecraft and supplements the theatre courses that concentrate on theories, information, and performance techniques. A course fee is required.

Any Theatre Level 4 course receives advanced grade points.

IB THEATRE ARTS SL/HL

KISD #: 3462/3463

Grades: 11 and 12

1 Credit

Prerequisite: **One year theatre arts or theatre production in grades 9 or 10**

The IB Theatre Arts program is designed to offer students the opportunity to explore the significance of and develop an appreciation of theatre through original investigation and creation, involving the whole student; body and mind. Students examine the rich historical, societal, and cultural significance of theatre throughout the world. IB candidates have the option of completing the Standard Level program consisting of 25% Research Commission, 25% Practical Play Analysis, 25% Performance Skills and Theatre Production, and 25% Portfolio. The Higher Level program consists of 25% Research Commission, 25% Practical Play

Analysis, 25% Performance Skills and Theatre Production, and 25% Portfolio and Individual Project. A course fee is required.

MUSIC

BAND 1-4

Grades: 9-12

1 Credit

Prerequisite:

Audition

The high school band is a musical organization for students of wind and percussion instruments. Klein offers multiple bands for students interested in instrumental music within the school day. Emphasis is placed on the development of cultural growth, critical listening, basic music theory, instrument technique, creative self-expression, mental and physical discipline, citizenship through group endeavors and physical conditioning. During football season the various concert bands meet after school to make up the marching band which performs at all varsity football games and selected contests. During concert season section rehearsals are scheduled after school one day a week to prepare for concerts and contests. Attendance at all rehearsals and performances is required. Band placement is determined through auditions held in May, August, and at various times during the school year. Students must furnish their own marching shoes, personal instruments (flute, clarinet, alto saxophone, trumpet/cornet, trombone), and mouthpiece or drum-sticks/mallets. For concert attire, girls must furnish dress shoes. Boys must furnish tux shirt, bow tie, and cummerbund. Band membership is required for participation in the wind or percussion section of the orchestra. A course fee is required.

ORCHESTRA 1-4

Grades: 9-12

1 Credit

Prerequisite:

Audition

The high school orchestra is a musical organization for students of stringed instruments (violin, viola, cello, string bass and harp). All wind and percussion players who participate in full orchestra must be current active members of the band program. The full orchestra rehearses outside the regular school day. A variety of musical settings from small chamber ensembles to full symphonic orchestral playing are experienced by the students. Emphasis is placed upon cultural growth, basic music theory, instrument techniques, music reading, evaluation of musical performance quality, and creative self-expression. The orchestra participates in concerts, contests, festivals, and often combines with the choir or band for special programs. Section rehearsals are scheduled after school to prepare for concerts and contests. Attendance at all rehearsals and performances is required. The district will furnish large string instruments for school use. Students must furnish violins and violas and the large instruments for personal use. Boys must furnish performance attire including a tux shirt and black shoes. String bass players must be registered for orchestra to play in the band. A course fee is required.

CHORAL MUSIC 1-4

Grades: 9-12

1 Credit

Prerequisite:

Audition

The high school choir is a musical organization for students of voice. It is an essential part of a balanced music curriculum and consists of vocal experiences in boys' choir, girls' choir, and mixed choir. Emphasis is placed on the development of proper vocal techniques, the study of choral techniques, basic music theory, sight-singing, music history and literature, creative self-expression, and vocal

performance. Section rehearsals are scheduled after school to prepare for concerts and contests. Attendance at all rehearsals and performances is required. Choir placement is determined through auditions held in May, August, and at various times during the school year. Boys must furnish a tux shirt and black shoes. A course fee is required.

VOCAL ENSEMBLE 1-4

Grades: 9-12

1 Credit

Prerequisite:

Audition

The high school vocal ensemble is a musical organization for students of voice. It is a complementing course to the parent choral organization. Emphasis is placed on the expansion of singing experiences in a small vocal group, an opportunity to study a variety of styles and historical styles, and the study of ensemble techniques. Opportunities will be provided to perform ensemble music in class and in public. Section rehearsals are scheduled after school to prepare for concerts and contests. Attendance at all rehearsals and performances is required. Students must furnish all concert attire if different from the parent choral organization. A course fee is required.

JAZZ BAND 1-4

Grades: 9-12

1 Credit

Prerequisite:

Audition and Approval by Band Director

The high school jazz ensemble is a musical organization for students of wind, percussion and string instruments. Emphasis is on the development of cultural growth, critical listening, basic music theory, and instructional technique, creative self-expression through jazz improvisation, mental and physical discipline and citizenship through group endeavors. Students must furnish personal instruments, (alto saxophone, trumpet, trombone, guitar) and mouthpiece or drumsticks/mallets. Membership in a large ensemble (band, choir, and orchestra) is required for participation in jazz ensemble. Attendance at all rehearsals and performances is required. Students must furnish concert attire if different from the parent music ensemble. Jazz ensemble may not be offered every semester at every campus.

APPLIED MUSIC 1, 2 (INDIVIDUAL STUDY)

KISD # 3810, 3811

Grades: 11-12

1 Credit

Prerequisite:

Meets District Guidelines

Enrollment in Applied Music is open to qualifying students who wish to pursue independent study in music performance. Emphasis is placed on private study, study of solo literature, study of technical literature, and a performance examination. Concurrent Enrollment in Band, Orchestra, or Choir is required. Near the end of each semester, each student is required to prepare and publicly perform the following for an appointed board of examiners. (1) two selections from the Approved Music List for Applied Music by memory, and, (2) technical studies and scales indicative of appropriate advancing technical preparation commensurate with the memorized musical selections performed. Additional information may be obtained from the high school music department chairperson.

MUSIC THEORY ADVANCED PLACEMENT

Klein ISD# 3821

Grades: 11-12

1 Credit

Prerequisite:

Teacher Approval

Music theory is a technical course stressing the basic components of music. Emphasis is placed on basic pitch and rhythmic notation, scale structures, pitch intervals, chord structure and movement, part writing, ear training, harmonization, and music composition. Music theory is open to advanced music students who are members of a high school performing music organization or who are competent with a keyboard instrument. Upon completion of the course, students will be prepared to take an examination that gives them the opportunity to demonstrate their mastery of the skills and abilities developed in the course. The Advanced Placement (AP) program is a cooperative effort with the College Board. Upon successful completion of the examination, participating colleges may grant credit and appropriate placement.

IB MUSIC SL/HL

KISD #: 3460/3461

Grades: 11 and 12

1 Credit

Prerequisite:

One year of band, choir, orchestra or comparable private music instruction in grades 9 or 10

The IB Music program is designed to offer students an opportunity to develop skills of analysis through exposure to a broad range of music styles, with emphasis on western art (classical) music. Students also explore traditional and popular music, culminating in a study of music of two diverse cultures. IB Music provides an opportunity for students to broaden their musical knowledge in preparation for career in music performance, composition, or pedagogy. The Standard Level can be completed as a junior or senior. Higher Level studies are recommended for students considering a music career and require a minimum of three semesters. SL level students are required to complete either a performance or composition unit to satisfy the program requirement. HL students must both perform as a soloist and complete a composition component.

DANCE

DANCE LEVEL 1 "PRINCIPLES OF DANCE" FINE ARTS CREDIT

Klein ISD# 3900

Grades: 9-12

1 Credit

Prerequisite:

None

Principles of Dance I is an introductory course that provides the students with an exploration of the basic movement fundamentals: ballet, jazz, tap, world dance, modern and choreography. Students will be introduced to dance technique and kinesthetic awareness, movement vocabulary, choreography creative expression, musicality, and dance history. In addition, students will have the opportunity to perform basic dance skills which will increase their self-confidence, self-discipline, and dance appreciation. Dance performances may be required in venues after school. Students are expected to furnish dancewear and shoes. A course fee is required.

Dance Level I is a Fine Arts course. A student may not earn state-approved credit for any dance course for Fine Arts credit and its corresponding PE equivalent simultaneously.

DANCE LEVEL 1 "PRINCIPLES OF DANCE" PE CREDIT

Klein ISD# 3900PE

Grades: 9-12

1 Credit

Prerequisite:

None

Principles of Dance I is an introductory course that provides the students with an exploration of the basic movement fundamentals: ballet, jazz, tap, world dance, modern and choreography. Students will be introduced to dance technique and kinesthetic awareness, movement vocabulary, choreography creative expression, musicality, and dance history. In addition, students will have the opportunity to perform basic dance skills which will increase their self-confidence, self-discipline, and dance appreciation. Dance performances may be required in venues after school. Students are expected to furnish dancewear and shoes. A course fee is required.

Dance Level I is a Fine Arts course. A student may not earn state-approved credit for any dance course for Fine Arts credit and its corresponding PE equivalent simultaneously.

DANCE WELLNESS LEVEL 1-4 FINE ART CREDIT

Klein ISD# 3941-3944

Grades: 9-12

1 Credit

Prerequisite:

None

This course will provide athletes with fundamental skills and knowledge of dance as an art form and lifetime activity, with a specific emphasis on areas that will improve their athletic ability. Students will study various forms of dance such as ballet, jazz, hip hop, and social dance, as well as broader aspects of dance such as injury prevention, stretching, and building muscle tone. This course will help to increase flexibility, balance, explosiveness, and agility in athletes.

DANCE WELLNESS LEVEL 1-4 (PE CREDIT)

KISD # 3941PE-3944PE

Grade Level: 9-12 1.0 PE credit

Prerequisite(s): None

This course will provide athletes with fundamental skills and knowledge of dance as an art form and lifetime activity, with a

specific emphasis on areas that will improve their athletic ability. Students will study various forms of dance such as ballet, jazz, hip hop, and social dance, as well as broader aspects of dance such as injury prevention, stretching, and building muscle tone. This course will help to increase flexibility, balance, explosiveness, and agility in athletes.

DANCE LEVEL 2 "PRINCIPLES OF DANCE" PE CREDIT

Klein ISD# 3901

Grades: 10-12

1 Credit

Prerequisite:

None

Principles of Dance II is a continuation of Dance I with an expanding dance curriculum that builds on dance technique, movement vocabulary, various choreography skills, creative expression, musicality and historical applications. In additions, students will learn to use their body as an expressive instrument in the creation and performance of a variety of dance styles and techniques. Dance performances may be required in venues after school. Students are expected to furnish dancewear and shoes. A course fee is required.

Dance Level II is a Fine Arts course. A student may not earn state-approved credit for any dance course for Fine Arts credit and its corresponding PE equivalent simultaneously.

DANCE LEVEL 2 "PRINCIPLES OF DANCE" PE CREDIT

Klein ISD# 3901PE

Grades: 10-12

1 Credit

Prerequisite:

None

Principles of Dance II/PE is a continuation of Dance I with an expanding dance curriculum that builds on dance technique, movement vocabulary, various choreography skills, creative expression, musicality and historical applications. In additions, students will learn to use their body as an expressive instrument in the creation and performance of a variety of dance styles and techniques. Dance performances may be required in venues after school. Students are expected to furnish dancewear and shoes. A course fee is required.

Dance Level II/PE is a PE course. A student may not earn state-approved credit for any dance course for Fine Arts credit and its corresponding PE equivalent simultaneously.

DANCE LEVEL 3 "PRINCIPLES OF DANCE" FINE ARTS CREDIT

Klein ISD# 3902

Grades: 11-12

1 Credit

Prerequisite:

None

Principles of Dance III provides a progressing curriculum with more complex movement vocabulary and technical skills. In addition, further development of choreographic elements, peer collaborations, and critical thinking with self-analysis will be integrated. Dance performances may be required in venues after school. Students are expected to furnish dancewear and shoes. A course fee is required.

Dance Level III is a Fine Arts course. A student may not earn state-approved credit for any dance course for Fine Arts credit and its corresponding PE equivalent simultaneously.

DANCE LEVEL 3 "PRINCIPLES OF DANCE" PE CREDIT

Klein ISD# 3902PE

Grades: 11-12 **1 Credit**
Prerequisite: **None**

Principles of Dance III provides a progressing curriculum with more complex movement vocabulary and technical skills. In addition, further development of choreographic elements, peer collaborations, and critical thinking with self-analysis will be integrated. Dance performances may be required in venues after school. Students are expected to furnish dancewear and shoes. A course fee is required.

Dance Level III is a Fine Arts course. A student may not earn state-approved credit for any dance course for Fine Arts credit and its corresponding PE equivalent simultaneously.

DANCE LEVEL 4 "PRINCIPLES OF DANCE" FINE ARTS CREDIT

Klein ISD# 3903

Grades: 12 **1 Credit**
Prerequisite: **None**

Principles of Dance IV is a fast paced and technically challenging course that provides students with a continuing emphasis on all dance knowledge and skills: ballet, jazz, tap, world dance, modern, and choreography. Students will continue to develop dance technique and kinesthetic awareness, movement vocabulary, choreography, creative expression, musicality, and historical applications. In addition, students will have the opportunity to perform a variety of dance styles and techniques that will increase their self-confidence, self-discipline, and dance appreciation. Dance performances may be required in venues after school. Students are expected to furnish dancewear and shoes. A course fee is required.

Dance Level IV is a Fine Arts course. Dance IV receives advanced grade points. A student may not earn state-approved credit for any dance course for Fine Arts credit and its corresponding PE equivalent simultaneously.

DANCE LEVEL 4 "PRINCIPLES OF DANCE" PE CREDIT

Klein ISD# 3903PE

Grades: 12 **1 Credit**
Prerequisite: **None**

Principles of Dance IV/PE is a fast paced and technically challenging course that provides students with a continuing emphasis on all dance knowledge and skills: ballet, jazz, tap, world dance, modern, and choreography. Students will continue to develop dance technique and kinesthetic awareness, movement vocabulary, choreography, creative expression, musicality, and historical applications. In addition, students will have the opportunity to perform a variety of dance styles and techniques that will increase their self-confidence, self-discipline, and dance appreciation. Dance performances may be required in venues after school. Students are expected to furnish dancewear and shoes. A course fee is required.

Dance Level IV/PE is a PE course. A student may not earn state-approved credit for any dance course for Fine Arts credit and its corresponding PE equivalent simultaneously.

DANCE LEVEL 1-4 "DANCE COMPANY" FINE ARTS CREDIT

Klein ISD# 3900C, 3901C, 3902C, 3903C

Grades: 9-12 **1 Credit**
Prerequisite: **None**

Performance and Ensemble Dance I-IV is a performing company of the dance division where students are challenged in rigorous sessions of dance techniques that use their maximum movement range. Students will learn to use their body as an expressive instrument in the creation and performance of a variety of dance styles and techniques. The culminating activity of these courses incorporates the combined dance skills including choreography and costume/set design for individual and ensemble performances. Participation in the dance company is a full year commitment that includes non-competitive performances at multiple venues within the district and local communities. Out of school rehearsals and performances are required. Students are expected to furnish a variety of dancewear and shoes for class as well as performances. A course fee is required.

Dance Company Level I-IV is a Fine Arts course. Dance IV receives advanced grade points. A student may not earn state-approved credit for any dance course for Fine Arts credit and its corresponding PE equivalent simultaneously.

DANCE LEVEL 1-4 "DANCE COMPANY" PE CREDIT

Klein ISD# 3900CPE, 3901CPE, 3902CPE, 3903CPE

Grades: 9-12 **1 Credit**
Prerequisite: **None**

Performance and Ensemble Dance I-IV/PE is a performing company of the dance division where students are challenged in rigorous sessions of dance techniques that use their maximum movement range. Students will learn to use their body as an expressive instrument in the creation and performance of a variety of dance styles and techniques. The culminating activity of these courses incorporates the combined dance skills including choreography and costume/set design for individual and ensemble performances. Participation in the dance company is a full year commitment that includes non-competitive performances at multiple venues within the district and local communities. Out of school rehearsals and performances are required. Students are expected to furnish a variety of dancewear and shoes for class as well as performances. A course fee is required.

Dance Company Level I-IV/PE is a PE course. A student may not earn state-approved credit for any dance course for Fine Arts credit and its corresponding PE equivalent simultaneously.

DANCE 1-4 "DANCE TEAM" FINE ARTS CREDIT

Klein ISD# 3900T, 3901T, 3902T, 3903T

Grades: 9-12 **1 Credit**
Prerequisite: **None**

Dance Team I-IV is a performing team of the dance division where students are challenged in rigorous sessions of dance techniques that use their maximum movement range. Students will learn to use their body as an expressive instrument in the creation and performance of a variety of dance styles and techniques. The culminating activity of these courses incorporates the combined precision dance skills including choreography and costume/set design for individual and ensemble performances. Participation in the dance team is a full year commitment that includes non-competitive performances at multiple venues within the district

and local communities including football half-time shows. The team competes at multiple dance contests in the spring. Out of school rehearsals and performances are required. Students are expected to furnish a variety of dancewear and shoes for class as well as performances. A course fee is required.

Dance Team Level I-IV is a Fine Arts course. Dance IV receives advanced grade points. A student may not earn state-approved credit for any dance course for Fine Arts credit and its corresponding PE equivalent simultaneously.

DANCE 1-4 "DANCE TEAM" FINE ARTS CREDIT

Klein ISD# 3900T, 3901T, 3902T, 3903T

Grades: 9-12 1 Credit – This course will satisfy the fine arts graduation requirement

Prerequisite: Audition

Dance Team I-IV is a performing team of the dance division where students are challenged in rigorous sessions of dance techniques that use their maximum movement range. Students will learn to use their body as an expressive instrument in the creation and performance of a variety of dance styles and techniques. The culminating activity of these courses incorporates the combined precision dance skills including choreography and costume/set design for individual and ensemble performances. Participation in the dance team is a full year commitment that includes non-competitive performances at multiple venues within the district and local communities including football half-time shows. The team competes at multiple dance contests in the spring. Out of school rehearsals and performances are required. Students are expected to furnish a variety of dancewear and shoes for class as well as performances. A course fee is required.

Dance Team Level I-IV is a Fine Arts course. Dance IV receives advanced grade points. A student may not earn state-approved credit for any dance course for Fine Arts credit and its corresponding PE equivalent simultaneously.

DANCE 1-4 "HIP HOP CREW" FINE ARTS CREDIT

Klein ISD# 3915,3916,3917,3918

Grades: 9-12 1 Credit – This course will satisfy the fine arts graduation requirement

Prerequisite: Audition, Successful completion of previous course level

Hip Hop/Crew Dance I-IV is a performing group of the dance division where students are challenged in rigorous sessions of dance techniques that use their maximum movement range. Students will learn to use their body as an expressive instrument in the creation and performance of a variety of dance styles and techniques. The culminating activity of these courses incorporates the combined dance skills including choreography and costume/set design for individual and ensemble performances. Participation in the dance crew is a full year commitment that includes non-competitive performances at multiple venues within the district and local communities. Out of school rehearsals and performances are required. Students are expected to furnish a variety of dancewear and shoes for class as well as performances. A course

fee is required.

Dance Hip Hop/Crew Level I-IV is a Fine Arts course. Dance IV receives advanced grade points. A student may not earn state-approved credit for any dance course for Fine Arts credit and its corresponding PE equivalent simultaneously.

DANCE 1-4 "HIP HOP CREW" PE CREDIT

Klein ISD# 3915T,3916T,3917T,3918T

Grades: 9-12 1 Credit – This course will satisfy the fine arts graduation requirement

Prerequisite: Audition, Successful completion of previous course level

Hip Hop/Crew Dance I-IV/PE is a performing group of the dance division where students are challenged in rigorous sessions of dance techniques that use their maximum movement range. Students will learn to use their body as an expressive instrument in the creation and performance of a variety of dance styles and techniques. The culminating activity of these courses incorporates the combined dance skills including choreography and costume/set design for individual and ensemble performances. Participation in the dance crew is a full year commitment that includes non-competitive performances at multiple venues within the district and local communities. Out of school rehearsals and performances are required. Students are expected to furnish a variety of dancewear and shoes for class as well as performances. A course fee is required.

Dance Hip Hop/Crew Level I-IV/PE is a PE course. A student may not earn state-approved credit for any dance course for Fine Arts credit and its corresponding PE equivalent simultaneously.

DANCE 1-4 "COMPOSITION AND IMPROVISATION" FINE ARTS CREDIT

Klein ISD# 3933,3934,3935,3936

Grades: 9-12 1 Credit – This course will satisfy the fine arts graduation requirement

Prerequisite: Audition, Successful completion of previous course level

Composition/Improvisation Dance is a course designed for choreographic devices in solo, duet and ensemble movement studies; exploration of design principles; creating multiple movement studies using various elements of choreography. This course offers students an exploration of movement which acts to extend their choreographic vocabulary for dance composition. It also offers the opportunity to develop sensitivity working with groups in a spontaneous "performance" situation. Dance performances may be required in venues after school. Students are expected to furnish dancewear and shoes. A course fee is required.

Dance Composition and Improvisation Level I-IV is a Fine Arts course. Dance IV receives advanced grade points. A student may not earn state-approved credit for any dance course for Fine Arts credit and its corresponding PE equivalent simultaneously.

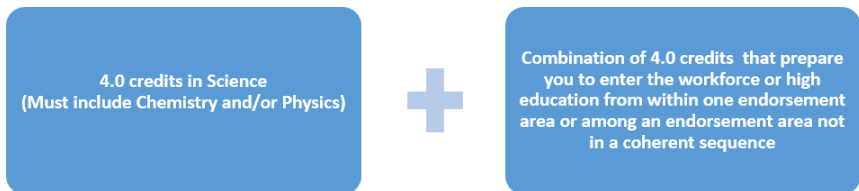
Content	Course		Fee	Per	Notes
Fine Arts	Art - Year 1		\$40	year	Includes equipment and consumable materials used to create final products in a variety of mediums.
Fine Arts	Art - Year 2		\$60	year	
Fine Arts	Art - Year 3		\$60	year	
Fine Arts	Art - Year 4		\$60	year	
Fine Arts	Art - IB		\$65	year	
Fine Arts	Band - Year 1	≤	\$600	year	Includes master class and large ensemble clinicians, marching band design costs and tech staff, accompanists, choreographers, organization apparel, required entry fees, hospitality, office supplies and other equipment, and other extracurricular and consumable expenses on a program by program basis. Does not include instrument rental, one time purchases such as marching shoes, rehearsal clothing, garment bags, etc.
Fine Arts	Band - Year 2	≤	\$600	year	
Fine Arts	Band - Year 3	≤	\$600	year	
Fine Arts	Band - Year 4	≤	\$600	year	
Fine Arts	Color Guard Year 1-4	≤	\$600	year	
Fine Arts	Orchestra - Year 1	≤	\$250	year	
Fine Arts	Orchestra - Year 2	≤	\$250	year	
Fine Arts	Orchestra - Year 3	≤	\$250	year	
Fine Arts	Orchestra - Year 4	≤	\$250	year	
Fine Arts	Choir - Year 1	≤	\$150	year	
Fine Arts	Choir - Year 2	≤	\$150	year	
Fine Arts	Choir - Year 3	≤	\$150	year	
Fine Arts	Choir - Year 4	≤	\$150	year	
Fine Arts	Theatre - Year 1		\$40	year	Includes equipment and consumable materials used to create in class projects and productions.
Fine Arts	Theatre - Year 2		\$40	year	
Fine Arts	Theatre - Year 3		\$40	year	
Fine Arts	Theatre - Year 4		\$40	year	
Fine Arts	Dance - Year 1	≤	\$50	year	Includes basic practice wear, choreography, and clinicians. Company and Crew include uniforms, clinicians, and required contest costs.
Fine Arts	Dance - Year 2	≤	\$50	year	
Fine Arts	Dance - Year 3	≤	\$50	year	
Fine Arts	Dance - Year 4	≤	\$50	year	
Fine Arts	Dance - Company	≤	\$200	year	
Fine Arts	Dance - Crew	≤	\$200	year	
Fine Arts	Dance - Team	≤	\$1,200	year	Includes costumes and apparel, choreography, show design, clinicians, required contest fees, summer camps, and prop construction.

Multidisciplinary Endorsement

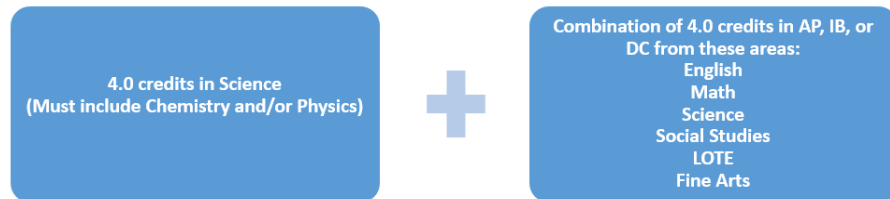
4 x 4 Pathway



Advanced Course Pathway



AP/DC/IB Pathway



Advanced Placement Course Index

KEY:

Core - This course receives core credit. See counselor for detailed information.

FA = Fine Arts **SC** = Science **MC** = Math **LOTE** = Languages Other Than English

PR - Prerequisite required.

App - Approval process required. The approval process varies by course. The process may include a student interest survey and/or instructor/counselor recommendation.

OE-College Board Open Enrollment Policy

ADVANCED PLACEMENT COURSE TITLE	Course	Cr	9th	10th	11th	12th	Core	PR	App
AP CAPSTONE DIPLOMA PROGRAM									
AP Seminar		1		✓	✓	✓	ELEC	PR	App
AP Research		1			✓	✓	ELEC	PR	App
FINE ARTS									
AP 2-D Art and Design	3132	1			✓	✓	FA	PR	OE
AP 3-D Art and Design	3134	1			✓	✓	FA	PR	OE
Art History	3136P	1			✓	✓	FA	PR	OE
AP Drawing	3131	1			✓	✓	FA	PR	OE
AP Music Theory	3821	1			✓	✓	FA	PR	OE
ENGLISH									
AP English Language and Composition	0135	1			✓		ELA	PR	OE
AP English Literature and Composition	0145	1				✓	ELA	PR	OE
HISTORY AND SOCIAL SCIENCES									
AP Comparative Government and Politics		1				✓	SS	PR	OE
AP European History	0226	1			✓	✓	SS	PR	OE
AP Human Geography	0238	1	✓	✓	✓	✓	SS	PR	OE
AP Macroeconomics	0256	.5			✓	✓	SS	PR	OE
AP Microeconomics	0255	.5			✓	✓	SS	PR	OE
AP Psychology	0262	.5		✓	✓	✓	SS	PR	OE
AP US Government and Politics	0245	.5			✓	✓	SS	PR	OE
AP United States History	0215	1		✓	✓	✓	SS	PR	OE
AP World History: Modern	0224	1	✓	✓			SS	PR	App
MATH AND COMPUTER SCIENCE									
AP Calculus AB	0365	1			✓	✓	MC	PR	OE
AP Calculus BC	0367	1			✓	✓	MC	PR	OE
AP Computer Science A	4901	2		✓	✓	✓	MC & LOTE	PR	OE
AP Computer Science Principles	4902	1	✓	✓			LOTE	PR	OE
AP Statistics	0397	1		✓	✓	✓	MC	PR	OE
SCIENCES									
AP Biology	0425	1		✓	✓	✓	SC	PR	OE
AP Chemistry	0435	1		✓	✓	✓	SC	PR	OE
AP Environmental Science	0465	1			✓	✓	SC	PR	OE

ADVANCED PLACEMENT COURSE TITLE	Course	Cr	9th	10th	11th	12th	Core	PR	App
AP Physics 1: Algebra-Based	0445	1		✓	✓	✓	SC	PR	OE
AP Physics 2: Algebra-Based	0448	1			✓	✓	SC	PR	OE
AP Physics C: Electricity and Magnetism	0449	1			✓	✓	SC	PR	App
AP Physics C: Mechanics	0449	1			✓	✓	SC	PR	App
WORLD LANGUAGES AND CULTURE									
AP Chinese Language and Culture		1				✓	LOTE	PR	OE
AP French Language and Culture	2620	1	✓	✓	✓	✓	LOTE	PR	OE
AP German Language and Culture	2627	1				✓	LOTE	PR	OE
AP Italian Language and Culture		1				✓	LOTE	PR	App
AP Japanese Language and Culture		1				✓	LOTE	PR	App
AP Latin	2637	1			✓	✓	LOTE	PR	App
AP Spanish Language and Culture	2609	1	✓	✓	✓	✓	LOTE	PR	OE
AP Spanish Literature and Culture	2600	1	✓	✓	✓	✓	LOTE	PR	OE

Dual Credit Course Index

*Note: Prerequisites (PR) vary by course. Please contact high school counselor

Dual Credit Course Title	KISD Course #	HS Credit	Lone Star College Course #	College Credit	9th	10th	11th	12th	PR
AC/DC Electronics (Klein Forest only)	9640DC18	1	ELPT 1321 ELPT 1311	3 credits 3 credits		✓			PR
Anatomy & Physiology	9271DC18 (S2 only)	1	BIOL 2401	4 credits			✓	✓	PR
Automotive Technology I	9612DC18	2	AUMT 1405 AUMT 1407	4 credits 4 credits			✓	✓	PR
Automotive Technology II	9614DC18	2	AUMT 1410 AUMT 1416	4 credits 4 credits			✓	✓	PR
Biology	0425DC	1	BIOL 1406 BIOL 1407	4 credits 4 credits			✓	✓	PR
Business Information Management II	9156DC18 (S1 only)	1	BUSI 1305	3 credits		✓	✓	✓	PR
Business Law	9173DC18 (S2 only)	1	BUSI 2301	3 credits		✓	✓	✓	PR
Chemistry	0431DC (S2 Only)	1	CHEM 1405	4 credits			✓	✓	PR
Chemistry	0434DC (S2 Only)	1	CHEM 1411	4 credits			✓	✓	PR
College Algebra	0389DC (S2 only)	1	Math 1314	3 credits				✓	PR
Correctional Services (Klein Forest only)	9633DC18	1	CRIJ 1301 CRIJ 2313	3 credits 3 credits			✓	✓	PR
Court Systems & Practice (Klein Forest only)	9634DC18	1	CRIJ 1301 CRIJ 1306	3 credits 3 credits			✓	✓	PR
Economics	0251DC	0.5	ECON 2301	3 credits			✓	✓	PR
Electrical Technology I (Klein Forest only)	9605DC18	1	ELPT 1325 ELPT 1329 ELPT 1315	3 credits 3 credits 3 credits			✓		PR
Electrical Technology II (Klein Forest only)	9606DC18	2	ELPT 2325 ELPT1345 DFGT 2307	3 credits 3 credits 3 credits				✓	PR
English 3	0131DC	1	ENGL 1301 ENGL 1302	3 credits 3 credits			✓		PR
English 4	0141DC	1	ENG 2322 ENG 2323	3 credits 3 credits				✓	PR
Government	0241DC	0.5	GOVT 2305	3 credits			✓	✓	PR
Physics	0441DC (S2 Only)	1	PHYS 1401	4 credits			✓	✓	PR
Pre-Calculus	0360DC (S2 Only)	1	MATH 2412	4 credits			✓	✓	PR
Psychology	0260DC	0.5	PSYC 2301	3 credits			✓	✓	PR
Sociology	0261DC	0.5	SOCI 1301	3 credits			✓	✓	PR
Speech	0189DC	1	SPEECH 1311	3 credits	✓	✓	✓	✓	PR
US History	0211DC	1	HIST 1301 HIST 1302	3 credits 3 credits		✓	✓	✓	PR

Accelerated College Pathways - Dual Credit Course Offerings

*Note: These CTE dual credit courses are only available to students accepted to the indicated accelerated college pathway. Prerequisites (PR) vary by course. Please contact high school counselor.

Advanced Nursing Pathway – Klein High School									
Dual Credit Course Title	KISD Course #	HS Credit	Lone Star College Course #	College Credit	9th	10th	11th	12th	PR
Advanced Nursing	9266DC18	2	VNSG 1160 VNSG 1323 VNSG 1400 VNSG 1260	1 credit 3 credits 4 credits 2 credits				✓	PR
Health Science Theory	9268DC18	2	VNSG 1226	2 credits			✓		PR
Principles of Health Science	9265DC18	1	VNSG 1304	3 credits		✓			PR
Global Business Pathway – Klein Forest High School									
Dual Credit Course Title	KISD Course #	HS Credit	Lone Star College Course #	College Credit	9th	10th	11th	12th	PR
Accounting 1	9162DC18	1	ACNT 1303	3 credits			✓		PR
Business Management II		1	BMGT 1327	3 credits			✓	✓	PR
Geospatial Engineering and Land Survey Pathway – Klein Collins High School									
Dual Credit Course Title	KISD Course #	HS Credit	Lone Star College Course #	College Credit	9th	10th	11th	12th	PR
Computer Aided Drafting for GIS/Land Surveying	9464DC18	1	DFTG 1309	3 credits		✓			PR
Geographic Information Systems	9466DC18	1	GISC 1411	4 credits		✓			PR
Land Surveying	9467DC18	1	SRVY 1301	3 credits			✓		PR
Practicum in Stem-Geospatial/Land Surveying	9468DC18	2	SVRY 1441 GISC 1401	4 credits 4 credits				✓	PR
Raster Based GIS	9465DC18	1	GISC 1421	4 credits			✓		PR

English Language Arts

ENGLISH 1

KISD #: 0111

Grades: 9 **1 Credit**

Prerequisite: None

English 1, the introductory high school course, focuses on basic concepts and skills in the language arts. Through integrated units of study, the curriculum provides instruction in the composing process of multi-paragraph compositions, applied grammar concepts, conventions of language, syntax, literary genres, cultural attitudes/customs in literature, basic literary terminology, reading/critical thinking skills, and rhetorical writing activities. Emphasis is on the development of effective written communication for a variety of purposes. Students enrolled in this class must pass an End of Course (EOC) exam to meet graduation requirements.

ENGLISH 1 ESL

KISD #: 0811

Grades: 9-12 **1 Credit**

Recommended Prerequisite: Counselor Approval

English I ESL is designed to support Limited English Proficient (LEP) students, who are transitioning from the ESL classroom to the regular program. This introductory high school course builds reading, writing, listening, and speaking skills based on the Texas Essential Knowledge and Skills (TEKS) for 9th grade. A variety of methods and modalities for instruction will be utilized. English 1, the introductory high school course, focuses on basic concepts and skills in the language arts for the Limited English Proficient (LEP) student, who is transitioning from the ESL classroom to the regular program. Students enrolled in this class must pass an End of Course (EOC) exam to meet graduation requirements.

ENGLISH 1 Pre-AP

KISD #: 0113Q

Grades: 9 **1 Credit**

Prerequisite: Pre-AP Guidelines Recommended

English I Pre-AP is designed for students who excel in the language arts and are interested in enrolling in English AP courses in the future. This introductory high school course builds reading, writing, listening, and speaking skills based on the Texas Essential Knowledge and Skills (TEKS) for 9th grade. The student will increase and refine critical reading and writing skills, communicate effectively through exposition, analysis, and argumentation, experience different genres to interpret a work's structure, style, theme, symbolism, imagery and tone and develop stylistic maturity. Students enrolled in this class must pass an End of Course (EOC) exam to meet graduation requirements.

Advanced Grade Points: Yes

ENGLISH 1 Pre-AP/GT

KISD #: 0117

Grades: 9 **1 Credit**

Prerequisite: Meets district guidelines

English I Pre-AP GT is designed for students who meet the requirement for the gifted and talented program and are interested in enrolling in English AP courses in the future. This introductory high school course builds reading, writing, listening, and speaking skills based on the Texas Essential Knowledge and Skills (TEKS) for 9th grade. The course emphasizes critical thinking skills and promotes creative, productive thinking. The student will increase and refine critical reading and writing skills, communicate effectively through exposition, analysis, and argumentation, experience different genres to interpret a work's structure, style, theme, symbolism, imagery and tone and develop stylistic maturity. GT services are provided through the PreAP classes. Students enrolled in this class must pass an End of Course (EOC) exam to meet graduation requirements.

Advanced Grade Points: Yes

PRE-IP ENGLISH 1 AND 2

KISD #: 3470, 3472

Grades: 9-10 **1.0 Credit**

Prerequisite: Acceptance in IB Program

The Pre-IB program is an introductory pair of courses that focuses on the prerequisite skills and concepts needed for IB English. Pre-IP English emphasizes the goals of helping learners to connect with literature, write effectively, and prepare and deliver oral presentations. Students will explore classical and contemporary works of literature from our nation and the world. Major literary works representing various genres, authors, and historical periods will be emphasized. Composition instruction will focus on writing as an essential way to develop, clarify, and communicate ideas in persuasive, expository, literary, and expressive discourse. Vocabulary study will include the Latin and Greek influences on the English language. Students who successfully complete the Pre-IP courses will be prepared for the rigorous academic demands of the IB English Higher Level program. Students enrolled in this class must pass an End of Course (EOC) exam to meet graduation requirements.

Advanced Grade Points: Yes

ENGLISH 2

KISD #: 0121

Grades: 10 **1 Credit**

Prerequisite: English 1 or Counselor Approval

English II, builds reading, writing, listening, and speaking skills based on the Texas Essential Knowledge and Skills (TEKS) for 10th grade. This course continues to focus on writing experiences for a variety of audiences and forms, documented multi-paragraph compositions, identification of literary symbols, development of theme in a literary work, and the utilization of advanced/special reference materials. Through thematic units of study, the curriculum provides extensive practice in rhetorical writing integrated with the study of literature and the development of

critical thinking. Students enrolled in this class must pass an End of Course (EOC) exam to meet graduation requirements.

ENGLISH 2 ESL

KISD #: 0821

Grades: 9-12 **1.0 Credit**

Prerequisite: **None**

English II (LES) is designed for Limited English Proficiency (LEP) students who may be performing below their assigned grade level and/or students who have failed the state reading assessment. The course is designed to cover the essential concepts of the course but utilizes English as a Second Language methodology such as additional visuals, props, content vocabulary instruction and small group work. Individual

diagnosis of student needs determines appropriate course of study. Students enrolled in this class must pass an End of Course (EOC) exam to meet graduation requirements.

ENGLISH 2 Pre-AP

KISD #: 0123Q

Grades: 10 **1.0 Credit/Math Credit Option**

Prerequisite: **English I and Pre-AP Guidelines**

English II-(Pre-AP) is designed for highly motivated students who excel in the language arts and are interested in studying a differentiated curriculum that includes a wider range and greater depth of subject matter. The course emphasizes critical thinking skills and promotes creative, productive thinking. Emphasis is placed on the development of advanced cognitive concepts and processes, guided and independent research, and the incorporation of student-determined ideas and interests. Students enrolled in this class must pass an End of Course (EOC) exam to meet graduation requirements.

Advanced Grade Points: Yes

ENGLISH 2 Pre-AP/GT

KISD #: 0126

Grades: 9-12 **1.0 Credit**

Prerequisite: **Meets district guidelines**

English II (Pre-AP-GT) is designed for students who meet the requirement for the gifted and talented program. These students are identified as being highly motivated and are interested in studying a differentiated curriculum that includes a wider range and greater depth of subject matter that focuses on world literature. The course emphasizes critical thinking skills and promotes creative, productive thinking. Emphasis is placed on the development of advanced cognitive concepts and processes, guided and independent research, and the incorporation of student-determined ideas and interests. An extensive research project and focused interdisciplinary units evolve from student interests and input. GT services are provided through the PreAP classes. Students enrolled in this class must pass an End of Course (EOC) exam to meet graduation requirements.

Advanced Grade Points: Yes

ENGLISH 3

KISD #: 0131

Grades: 11 **1.0 Credit**

Prerequisite: **None**

English III further expands and refines language arts concepts and skills introduced in English II. In addition, this course focuses on the following: selection of rhetorical choices based on audience, purpose, and form; writing longer compositions incorporating outside information with documentation; writing a variety of forms of informative and persuasive discourse; writing at least one form of literary discourse; knowledge of history and major features of American dialects; recognition of sociological functions of language; analysis of word analogies and other forms of advanced vocabulary development; recognition of major American authors, literary periods, works, and literary forms; recognition of the characteristics of literary selections; use of reading concepts and skills to enhance the development of the thinking/reasoning processes; and, use of specialized reference sources. Through integrated units of study, the curriculum provides extensive experience in rhetorical writing activities in the study of literature and in the development of critical thinking.

ENGLISH 3 ESL

KISD #: 0831

Grades: 11-12 **1.0 Credit**

Prerequisite: **Counselor Approval**

English III (LES) is designed for Limited English Proficiency (LEP) students who may be performing below their assigned grade level and/or students who have failed the STAAR reading test. The course is designed to cover the essential concepts of the course but utilizes English as a Second Language methodology such as additional visuals, props, content vocabulary instruction and small group work. Individual diagnosis of student need determines appropriate course of study.

ENGLISH 3 ADVANCED PLACEMENT LANGUAGE AND COMPOSITION

KISD #: 0135

Grades: 11 **1.0 Credit**

Prerequisite: **Meets district guidelines**

English III Advanced Placement is designed to engage students in becoming skilled readers of prose, mainly nonfiction, written in a variety of periods, disciplines, and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. Stress is on the intense concentration on language and stylistic development. Upon completion of the course, students will be prepared to take a three-hour examination that gives them the opportunity to demonstrate their mastery of the skills and abilities developed in the course. The Advanced Placement (AP) program is a cooperative effort with The College Board. Upon successful completion of the examination, participating colleges grant credit and appropriate placement.

Advanced Grade Points: Yes

ENGLISH 3 DUAL CREDIT

KISD #: 0131DC

Grades: 11

1.0 Credit

Prerequisite: Meets district guidelines

Study and practice in the writing process, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Study and practice of strategies and techniques for developing research based expository and persuasive texts. Emphasis on primary and secondary research methods

Advanced Grade Points: Yes

Dual Credit Correlation: ENGL 1301 and 1302

ENGLISH 4

KISD #: 0141

Grades: 12

1.0 Credit

Prerequisite: None

English IV further expands and refines language arts concepts and skills studied in English 3. Additionally, this course focuses on the following: using each of the commonly recognized patterns of organization; achieving precision in meaning through sophisticated language and rhetorical choices; analysis of ideas and logic in written discourse; use of sophisticated and precise word choices; origin and development of the English language; recognition of major authors, periods, forms, and works in British literature; recognition of recurring themes in literary selections; recognition of the devices of propaganda; analysis of the presentation of ideas in written discourse, including forms of logical reasoning, common fallacies of reasoning, and techniques of persuasive language; and, the development of generalizations formulated from a given series of assumptions. Through integrated units of study, the curriculum promotes awareness/understanding of abstract concepts and practical application of fundamental skills.

ENGLISH 4 ESL

KISD #: 0842

Grades: 12

1.0 Credit/Math Credit Option

Prerequisite: Counselor Approval

English IV (LES) is designed for Limited English Proficiency (LEP) students who may be performing below their assigned grade level and/or students who have failed the state reading assessment. The course is designed to cover the essential concepts of the course but utilizes English as a Second Language methodology such as additional visuals, props, content vocabulary instruction and small group work. Individual diagnosis of student need determines appropriate course of study.

ENGLISH 4 AP ADVANCED PLACEMENT LITERATURE AND COMPOSITION

KISD #: 0145

Grades: 12

1.0 Credit

Prerequisite: Meets district guidelines

English IV Advanced Placement is designed to engage students in the careful reading of literary and informational works to increase their awareness of languages and the writer's craft. The course stresses the development of critical standards for literary appreciation, critical analysis of literature, writing essays in exposition and argument through the study and practice of writing, and the study of literature. Emphasis is on learning the use of modes of discourse, recognizing the assumptions underlying various rhetorical strategies, developing an awareness of language meaning and use, and the study of literature recognized for literary merit. Upon

completion of the course, students will be prepared to take a three-hour examination that gives them the opportunity to demonstrate their mastery of the skills and abilities developed in the course. The Advanced Placement (AP) program is a cooperative effort with the College Board. Upon successful completion of the examination, participating colleges grant credit and appropriate placement.

Advanced Grade Points: Yes

ENGLISH 4 DUAL CREDIT

KISD #: 0141DC

Grades: 12

1.0 Credit

Prerequisite: Meets district guidelines

A survey of development of British literature from the Anglo-Saxon period to the 18th Century and from the Romantic period to present. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

Advanced Grade Points: Yes

Dual Credit Correlation: ENGL 2322 and 2323

TRANSITION TO COLLEGE ENGLISH

KISD #: 0501

Grades: 12

1.0 Credit

Prerequisite: Meets district guidelines

The focus of the course will be on applying critical reading skills for organizing, analyzing, and retaining material and developing written work appropriate to the audience, purpose, and length of the assignment. This course is designed to prepare students for college level reading and writing courses. The course integrates preparation in basic academic reading skills with basic skills in writing a variety of academic essays. Students will learn to (1) write logical and effective essays; (2) utilize textual support to develop reading comprehension strategies; and (3) analyze, synthesize and make value judgments using critical thinking.

IB English 3 and English 4 (HL)

KISD #: 3400, 3402

Grades: 11-12

1.0 Credit

Prerequisite:

Pre-IB English 1 and 2 or Acceptance into IB program

This pair of courses focuses on the rigorous academic demands of an International Baccalaureate Higher Level course. This two-year, intensive study of English language and literature develops students' analytical abilities and creative powers of expression, both in oral and written communications. It encourages them to be original, independent, critical and logical thinkers, and to appreciate literature as an art form. Students learn techniques to analyze literary passages, drawn from prose and poetry, representative of a variety of historical literary periods. Various genres, styles, themes and contexts are examined through the analysis of grouped works. Students explore the ongoing forces of human creativity, artistic ingenuity, and cultural diversity that shape and develop literature. Students engage in daily formal and/or in formal writing tasks including free writing, response journals, dialectical journals, essays, abstracts, critiques and commentaries. They practice public speaking, engaging in the critical and constructive exchange of ideas through oral presentations, class discussions, panel discussions, as well as informal and/or informal debates. This course will culminate with the successful completion of the Language A1 exam.

Advanced Grade Points: Yes

Independent Study in English Pre-AP or Gifted and Talented

KISD #: 0148, 0149

Grades: 10-12

1.0 Credit

Prerequisite:

None

Independent Study in English is designed for high-achieving students who wish to pursue Independent Study in English is designed for high-achieving students who wish to pursue independent study in an English-related area or field of interest. The curriculum includes various activities designed by both the student and the instructor. Focus is on independent research based on individual student interests, the production of original work in print or in another medium, the development of an advanced skill, and the independent study of a specific area of interest with the help of a mentor employed in that field. Potential students must submit a plan

of study that is subject to approval by the English department chairperson. Students are assigned to a class period each day conducted by the consulting teacher who will monitor the progress of the project, prepares progress reports and completes critical evaluations.

Advanced Grade Points: Yes

BIBLE LITERACY

KISD #: 0155

Grades: 9-12

.5 Credit

Prerequisite:

None

Bible Literacy is designed for students who wish to explore and learn about the Hebrew Scriptures (Old Testament) and the New Testament and their impact. The curriculum focuses on the knowledge of biblical content, characters, poetry, and narratives that lead to understanding of contemporary society and culture. The students will become familiar with the contents of the history of the literary style and structure and the influence of the Hebrew Scriptures and New

Testament on law, history, government, literature, art, music, customs, morals, values, and culture. This course will require in depth reading, research, analysis with reflective writing and problem solving. A research project will be required. *To be offered, this course requires that at least 15 students request it. Credit will be regarded as an elective credit*

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES 1

KISD #: 0115

Grades: 9-12

1.0 Credit

Prerequisite:

Identified as LEP Student

A maximum of two of the four units of English required for graduation may be English as a Second Language (ESL). All credit earned in ESL that is not counted toward the graduation requirement in English may be counted as electives in meeting state graduation requirements. The ESL 1 course is designed for students who are monolingual speakers of other languages and considered beginning English speakers. These students are designated as beginning English speakers or students with no English skills enrolling beyond first grade with no previous schooling. This basic ESL course concentrates on language arts skills necessary for success in the academic program.

Students in this course may also enroll in Reading LES 1 and ESL Basic Interpersonal Communication Skills. Students enrolled in this class must pass an End of Course (EOC) exam to meet graduation requirements.

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES 2

KISD #: 0125

Grades: 9-12

1.0 Credit

Prerequisite:

Identified as LEP Student

A maximum of two of the four units of English required for graduation may be English as a Second Language (ESL). All credit earned in ESL that is not counted toward the graduation requirement in English may be counted as electives in meeting state graduation requirements. The ESL 2 course is designed for students who have some oral English skills, score below the 23rd percentile on a state-approved standardized achievement test, and are at the intermediate level. This course concentrates on language arts skills necessary for academic success in school with an introduction to the specific skills necessary for content area courses to follow. Students in this course should also enroll in LES Reading. Students enrolled in this class must pass an End of Course (EOC) exam to meet graduation requirements.

ESL BASIC INTERPERSONAL COMMUNICATION SKILLS (BICS)

Grades: 9-12

1.0 Credit (Local Credit)

Prerequisite:

Identified as LEP Student

This local credit elective course is designed for entry beginner level Limited English Proficient students who have had very native language instruction or lack basic skills in the English Language. These students score NES (Non-English Speaker) on an Oral Language Proficiency Test. The course concentrates on skills necessary for success in ESL 1 and academic courses to follow later in the student's program.

READING 1

KISD #: 0197, 0198

Grades: 9-12

.5 to 1.0 Credit

Prerequisite:

Counselor Approval

Reading 1 is designed for students reading one to two years below their assigned grade level and/or students who have failed the state assessment reading test. Individual diagnosis of student need determines the appropriate course of study. General areas of the instruction include the following: word attack skills, including structural analysis and contextual clues; vocabulary development, including the use of advanced and specialized dictionaries; general developmental comprehension skills; and, reading skills, including fluency and comprehension, applied to a variety of practical situations that are cross-curricular. Emphasis is on recognition and development of individual learning style and overall improvement of reading skills to ensure that high school students have an opportunity to read with competence, confidence, and understanding. A maximum of three credits in Reading 1, 2, or 3, and/or Reading Elective may count toward graduation. **Note: THIS COURSE IS REQUIRED FOR THOSE WHO DID NOT MEET THE STANDARD ON THE EIGHTH OR NINTH GRADE STATE ASSESSMENT READING TEST.**

READING 2

KISD #: 201

Grades: 9-12

.5 to 1.0 Credit

Prerequisite:

Counselor Approval

Reading 2 is designed for students who have taken Reading 1 and could benefit from reinforcement of fluency word attack skills, vocabulary development, comprehension skills, and reading skills applied to a variety of practical situations. Emphasis is on recognition and development to individual learning style and overall improvement of reading skills. A maximum of three credits in Reading 1, 2, or 3, and/or Reading Elective may count toward graduation.

READING 3

KISD #: 0205

Grades: 9-12

.5 to 1.0 Credit

Prerequisite:

Counselor Approval

Reading 3 is designed for students who have taken two years of reading and could benefit from a third year of reading in order to reach English proficiency. Skills addressed in Reading 1 and Reading 2 will be reinforced. A maximum of three credits in Reading 1, 2, or 3, and/or Reading Elective may count toward graduation.

READING ELECTIVE

KISD #: 0204

Grades: 9-12

.5 to 1.0 Credit

Prerequisite:

Counselor Approval

The reading elective course is designed to assist and instruct the non-proficient reader who has had difficulty in learning to read. In addition, the course is designed to provide appropriate instructional strategies for students who have been identified as dyslexic or are at risk for dyslexia. Though this course is structured to include the Texas Essential Knowledge and Skills, the primary emphasis is on the following: use of a variety of word recognition strategies; vocabulary development through reading and systematic word study; reading with fluency and understanding in increasingly demanding texts; and comprehension strategies and skills to gain meaning from whatever is read.

READING 1, LIMITED ENGLISH SHELTERED

KISD #: 0198

Grades: 9-12

.5 to 1.0 Credit

Prerequisite:

Counselor Approval

Reading 1 LES is designed for Limited English Proficiency (LEP) students reading one-to-two years below their assigned grade level and/or students who have failed the state reading assessment. Individual diagnosis of student need determines the appropriate course of study. General areas of the curriculum include the following: word attack skills, including structural analysis and contextual clues; vocabulary development, including the use of advanced and specialized dictionaries; general developmental comprehension and fluency skills; and, reading skills applied to a variety of practical situations. Emphasis is on recognition and development of individual learning style and overall improvement of reading skills. This course should be taken by students

in ESL 1 and 2. The course is optional for ESL 3 students who have been through the reading improvement program at the intermediate level. A maximum of three credits in Reading 1, 2, or 3, and/or Reading Elective may count toward graduation.

CREATIVE AND IMAGINATIVE WRITING

KISD #: 0146

Grades: 11-12

1.0 Credit

Prerequisite:

STAAR Commended Performance

Advanced Grade Points : YES

Creative/Imaginative Writing is designed for students who enjoy writing and are interested in producing original work. The course focuses on the principles of creative writing and producing original work with emphasis on stylistic techniques such as the use of figurative language and other literary devices and various organizational models used for the development of text structure. Emphasis is placed on the production of original works that afford the student the opportunity to develop an individual style of writing. Procedures for submitting original works for publication are included in this course.

PRACTICAL WRITING SKILLS

KISD #: 0170, 0172

Grades: 11-12 .5 -1.0 Credit

Prerequisite: Counselor Approval

Practical Writing Skills is designed for the student who has demonstrated a need for more intensive, targeted instruction in writing. The course includes instruction in techniques of effective writing for both practical and test situations, including STAAR. Each student's writing will be evaluated, and emphasis will then be placed on the interventions that are necessary in order for the student to succeed when writing is a requirement. This course will include activities that will enable the student to learn to write effectively when required to complete applications, orders, memos, notes, and the like. The final assessment of the course will include a post-test that will provide data regarding student progress with regard to effective writing skills. THIS COURSE IS REQUIRED FOR THOSE STUDENTS WHO DID NOT MEET THE STANDARDS

ON THE WRITING COMPONENT OF THE STATE ASSESSMENT.

COMMUNICATIONS APPLICATIONS

KISD #: 0189

Grades: 9-12 .5 Credit

Prerequisite: None

Students enrolled in Communication Applications will be expected to identify, analyze, develop, and evaluate communication skills needed for professional and social success in interpersonal situations, group interactions, and personal and professional presentations. The course emphasizes the application of verbal and nonverbal skills and critical-thinking and problem-solving processes.

COMMUNICATIONS APPLICATIONS DUAL CREDIT

KISD #: 0189DC

Grades: 9-12 .5 Credit

Prerequisite: Meets district guidelines

Introduces basic human communication principles and theories embedded in a variety of contexts including interpersonal, small group, and public speaking. Students will apply the principles of human communication including: perception, verbal communication, nonverbal communication, listening, and audience analysis.

Advanced Grade Points: Yes

Dual Credit Correlation: SPCH 1311

PROFESSIONAL COMMUNICATIONS

KISD #: 9700

Grades: 9-12 .5 Credit

Prerequisite: None

This is an activity based career development course in which students will develop an understanding of professional communications through exploration of the career clusters. Students will explore a variety of career options and activities including formal and informal presentations, resume writing, and job interviewing. Students will exhibit public relations skills, leadership characteristics, knowledge of the global economy, and information technology applications.

ORAL INTERPRETATION 1

KISD #: 0160

Grades: 9-12

1 Credit

Prerequisite: Public Speaking 1 or Communications Applications and Sponsor Approval or Speech 7/8 and Sponsor Approval

Oral Interpretation I is designed for the student who wishes to explore and learn the fundamental concepts and skills of oral interpretation. The curriculum focuses on the following: exploration of interpretive reading and of potential literary selections; analysis of literary merit including qualities of universal appeal and uniqueness of literary works; determination of literary meaning including emotional impact and preferred styles or authors and literary types; the role of the interpreter in recreating the intellectual, emotional, and aesthetic aspects of literary works; selection of literature according to nature of audience and personal preferences; analysis of literature including author's purpose, structure, and style; performance techniques including use of voice and body; adaptation of literature to preserve the author's intent, form and style; performance of literature in individual and group presentations; and, criteria for evaluating interpretation techniques and audience reaction.

ORAL INTERPRETATION 2

KISD #: 0161

Grades: 10-12

1 Credit

Prerequisite: Oral Interpretation 1 and Sponsor Approval

Oral Interpretation 2 further expands and refines the course objectives outlined in the Oral Interpretation 1 curriculum. This course is designed for the student who wishes to participate in the practical application of oral interpretation skills through competitive speech tournament events.

ORAL INTERPRETATION 3

KISD #: 0162

Grades: 11-12

1 Credit

Prerequisite: Oral Interpretation 2

Oral Interpretation 3 further expands and refines the course objectives introduced in Oral Interpretation 1 and 2. This course is specifically designed for the highly motivated, advanced oral interpretation student who wishes to perfect performance skills through participation in top-level competitive speech tournament events. Additionally, the course curriculum includes a general survey of and comparison between high school and college competitive speech events and professional presentations. The course emphasizes the application of verbal and nonverbal skills and critical-thinking and problem-solving processes.

DEBATE 1

KISD #: 0163

Grades 9-12

1 Credit

Prerequisite:

**Public Speaking 1, Public Speaking 2,
or Communication Applications and
Sponsor Approval**

Debate 1 is designed for the student who wishes to explore and learn the fundamental concepts and skills of debate. The curriculum focuses on the following general elements of debate: formats and forums for debate; processes of logic and critical thinking; reading and researching information from diverse sources and materials; development of single-issue briefs; exploration of resolutions through definition, potential issues, use of "should," and unique requirements of value and fact topics; affirmative and negative case construction; process of cross-examination as witness, questioner, or auditor; oral, aural, and written evaluation of arguments; and, the presentation of debate through reading, writing, listening, speaking, and analyzing competitive tournament debating.

DEBATE 2

KISD #: 0164

Grades: 9-12

1 Credit

Prerequisite:

Debate and Sponsor Approval

Debate 2 further expands and refines the course objectives outlined in the introductory Debate 1 course. This course is designed for the student who wishes to participate in practical applications of debate skills through competitive debate events.

DEBATE 3

KISD #: 0165

Grades: 11-12

1 Credit

Prerequisite:

Debate 2

Debate 3 further expands and refines the course objectives outlined in the Debate 1 and 2 curricula. This course is specifically designed for the highly motivated, advanced debater who wishes to perfect debate skills through participation in top-level competitive debate events.

Additionally, the course curriculum includes a general survey of and comparison between high school and college debate techniques.

JOURNALISM 1

KISD #: 0150

Grades: 9-12

1 Credit

Prerequisite: Mastery of State Writing Assessment

Journalism 1 opens the doors to the field of professional journalism by introducing students to interviewing and the reporting style of writing seen online, on TV, and in magazines and newspapers. Students will also learn about trends in graphics, design, advertising and career opportunities. This class also provides the opportunity for students to advance to serve on the yearbook or newspaper staff. This course is also listed in the CTE/Technology Applications pages of the course guide.

PHOTOJOURNALISM

KISD #: 0158

Grades: 9-11

0.5 Credit

Prerequisite: Sponsor Approval

Photojournalism combines the art of photography with the story-telling function of journalism. Students will learn basic camera skills, and use composition techniques and settings to improve their photography. Students will learn to enhance their photos using industry standard software. **Students are required to provide their own non-automatic, DSLR camera.** This course is also listed in the CTE/Technology Applications pages of the course guide.

ADVANCED JOURNALISM: YEARBOOK 1

KISD #: 0191

Grades: 9-12

1 Credit

Prerequisite: Journalism 1 or Photojournalism and/or Sponsor Approval

In Advanced Journalism: Yearbook 1, students will work as a team to create a yearbook. Students will develop real-world skills including time management, budgeting and working collaboratively while creating publications using industry standard software. **As members of the yearbook staff, students in this course will be expected to: participate in an advertising campaign that includes selling advertisements in the community and to cover after-school activities, as assigned.** This course is also listed in the CTE/Technology Applications pages of the course guide.

ADVANCED JOURNALISM: YEARBOOK 2

KISD #: 0192

Grades: 10-12

1 Credit

Prerequisite: Advanced Journalism: Yearbook 1 and Sponsor Approval

In Advanced Journalism: Yearbook 2, students will work as a team to create a yearbook. Students will further develop real-world skills including time management, budgeting and working collaboratively while creating publications using industry standard software. Students are expected to increase involvement and responsibility on staff. **As members of the yearbook staff, students in this course will be expected to: participate in an advertising campaign that includes selling advertisements in the community and to cover after-school activities, as assigned.** This course is also listed in the CTE/Technology Applications pages of the course guide.

ADVANCED JOURNALISM: YEARBOOK 3

KISD #: 0193

Grades: 11-12

1 Credit

Prerequisite: Advanced Journalism: Yearbook 2 and Sponsor Approval

In Advanced Journalism: Yearbook 3, students will work as a team to create a yearbook. Students will refine real-world skills including time management, budgeting and working collaboratively while creating publications using industry standard software. Students will lead the staff as editors, section editors or senior staff members. **As members of the yearbook staff, students in this course will be expected to: participate in an advertising campaign that includes selling advertisements in the community and to cover after-school activities, as assigned.** This course is also listed in the CTE/Technology Applications pages of the course guide.

Advanced Grade Points: Yes

ADVANCED JOURNALISM: NEWSPAPER PRODUCTION 1

KISD #: 0194

Grades: 9-12

1 Credit

Prerequisite: Journalism 1 or Photojournalism, and/or Sponsor Approval

In Advanced Journalism: Newspaper Production 1, students will work as a team to create an online and/or print school newspaper, covering school and community events. Students will develop real-world skills including time management, budgeting and working collaboratively while creating publications using industry standard software. **As members of the newspaper staff, students in this course will be expected to: participate in an advertising campaign that includes selling advertisements in the community and to report on after-school activities, as assigned.** This course is also listed in the CTE/Technology Applications pages of the course guide.

ADVANCED JOURNALISM: NEWSPAPER PRODUCTION 2

KISD #: 0195

Grades: 10-12

1 Credit

Prerequisite: Advanced Journalism Newspaper Production 1 and Sponsor Approval

In Advanced Journalism: Newspaper Production 2, students will work as a team to create an online and/or print school newspaper, covering school and community events. Students will further develop real-world skills including time management, budgeting and working collaboratively while creating publications using industry standard software. **As members of the newspaper staff, students in this course will be expected to: participate in an advertising campaign that includes selling advertisements in the community and to report on after-school activities, as assigned.** This course is also listed in the CTE/Technology Applications pages of the course guide.

ADVANCED JOURNALISM: NEWSPAPER PRODUCTION 3

KISD #: 0196

Grades: 11-12

1 Credit

**Prerequisite: Advanced Journalism Newspaper
Production 2 and Sponsor Approval**

In Advanced Journalism: Newspaper Production 3, students will work as a team to create an online and/or print school newspaper, covering school and community events. Students will refine real-world skills including time management, budgeting and working collaboratively while creating publications using industry standard software. Students will lead the staff as editors, section editors or senior staff members. **As members of the newspaper staff, students in this course will be expected to: participate in an advertising campaign that includes selling advertisements in the community and to report on after-school activities, as assigned.** This course is also listed in the CTE/Technology Applications pages of the course guide.

Advanced Grade Points: Yes

INDEPENDENT STUDY OF JOURNALISM

KISD #: 0156, 0157, 0159

Grades: 11-12

1 Credit

**Prerequisite: Sponsor Approval and completion of
Advanced Journalism**

Independent Study/Journalism is for editors of the yearbook or newspaper. Students work collaboratively to plan deadlines, layout and content ideas for their designated publication. This course is also listed in the CTE/Technology Applications pages of the course guide.

LOTE Framework



Languages Other Than English

Students may take any two levels of the same foreign language to meet the requirements for the Foundation High School Program.

AMERICAN SIGN LANGUAGE (ASL) I

2641

Grades: 9-12 1 Credit

Prerequisite: None

This course introduces the fundamental elements of American Sign Language within a cultural context. Emphasis is placed on the development of basic expressive and receptive skills. Upon completion, students will be able to comprehend and respond with grammatical accuracy to expressive American Sign Language and demonstrate cultural awareness.

AMERICAN SIGN LANGUAGE (ASL) II

2642

Grades: 9-12 1 Credit

Prerequisite: ASL 1

This course is a continuation of ASL 1 focusing on the fundamental elements of American Sign Language in a cultural context. Emphasis is placed on the progressive development of expressive and receptive skills. Upon completion, the students should be able to comprehend and respond with increasing accuracy to expressive American Sign Language and demonstrate cultural awareness.

AMERICAN SIGN LANGUAGE (ASL) III

2643

Grades: 9-12 1 Credit

Prerequisite: ASL 2

This course is the third year of the Sign Language sequence. In this course, the student will continue to develop proficiency in communicating by learning vocabulary, syntax and grammar. In addition to understanding the deaf culture, students will learn how to interact competently and comfortably with hearing-impaired individuals.

MODERN LANGUAGES AND CHINESE: CHINESE, FRENCH, GERMAN AND SPANISH

Level I

Grades: 9-12 1 Credit

Prerequisite: None

The goal of the study of beginning levels in modern languages is communicative competence. This course will introduce students to the language and will develop novice-level proficiency in speaking, listening, reading, and writing. At the end of this course, students will be expected to reach a Novice mid-Novice high proficiency level and will be able to engage in simple conversations within the limits of practiced vocabulary and structure. Students will also gain perspective and insight into the cultures of the countries where the language is spoken. Classes are conducted in the language as much as possible to meet the ACTFL standards of proficiency in the language.

Level II

Grades: 9-12 1 Credit

Prerequisite: Level 1 or placement

Level II provides opportunities to further develop proficiency in speaking, listening, reading and writing. Emphasis is placed on expanding accuracy in vocabulary and structures and on broadening knowledge of cultural understanding. At the end of the course, it is expected that students will reach a Novice-high to Intermediate-low proficiency level.

Level III

Grades: 9-12 1 Credit

Prerequisite: Level 2 or placement

Level III courses will provide opportunities to develop intermediate language proficiency in listening, speaking, reading, and writing. By the end of the course, students will have adequate control of basic structural patterns and will be able to express themselves adequately. Students will also have a stronger understanding of the language and its cultural perspectives. Students will be expected to reach an Intermediate-low to Intermediate-mid proficiency level.

Level IV

Grades: 9-12 1 Credit

Prerequisite: Level 3 or placement

Students in Level IV are expected to reach a proficiency level of Intermediate Mid to Intermediate High, as defined in the ACTFL Proficiency Guidelines 2012 and the ACTFL Performance Descriptors for Language Learners. Which means, students at the Intermediate Mid proficiency level express meaning in straightforward and personal contexts by easily combining and recombining what they know, what they read, and what they hear in short statements and a mixture of sentences and strings of sentences. Intermediate Mid students are able to understand some information from connected statements in oral or written sources. Intermediate Mid students are generally understood by listeners and readers accustomed to dealing with language learners. Intermediate Mid students are consistently successful when performing Intermediate-level tasks.

ADVANCED PLACEMENT LANGUAGE LEVEL IV

Grades: 12 1 Credit

Prerequisite: Level 3 or placement

This course provides opportunities for students to acquire advanced-low to advanced-mid proficiency in the target language. Extensive training in the organization and writing of compositions is an integral part of the Advanced Placement Language courses. Classes are conducted in the language to meet the ACTFL standards of proficiency in the language. The student is responsible for the AP examination fee.

Advanced Grade Points: Yes

Seminar in Languages Other Than English, Advanced-French, German, Spanish, Chinese

NEW

Grades: 10-12 1 Credit

Prerequisite: AP Courses

This course is designed for students who are at a minimum performance level of Intermediate Mid to Advanced High on the American Council on the Teaching of Foreign Languages (ACTFL) scale. All products and presentations must be in the target language as the course shall be conducted exclusively in the target language. The student enrolled in a seminar course in a modern language will focus on a specialized area of study such as the work of a particular author, genre, or topic. The student will speak, write, read, and listen, as appropriate, in the target language for a variety of audiences and purposes. The student is expected to plan, draft, and complete written compositions as well as oral presentations on a regular basis and carefully examine his or her papers and presentations for clarity, engaging language, and the correct use of the conventions and mechanics of the target language as applicable. The student will be required to create and present a comprehensive portfolio.

INTERMEDIATE SPANISH FOR NATIVE SPEAKERS

KISD #: 2596Y

Grades: 9-12 1 Credit

Prerequisite: Placement Test

Spanish for Spanish Speakers I is designed for the student who has an ability to understand and speak Spanish. The emphasis of the instruction will be to expand the student's existing oral proficiency through focus on grammatical concepts and to develop the skills of reading and writing in Spanish so they can communicate more successfully in social and business situations.

Advanced Grade Points: Yes

ADVANCED SPANISH FOR NATIVE SPEAKERS

KISD #: 2598 and 2592

Grades: 9-12 2 Credits

Prerequisite: Spanish 1 for Spanish Speakers or placement

This course is designed for students who have successfully completed Intermediate Spanish for Spanish Speakers (or those placed by testing). The emphasis of the instruction will be to expand the students' speaking and listening skills; and will be conducted solely in Spanish. Students will also read authentic texts in Spanish and use them as the basis for literary and grammatical analysis, as well as cultural and historical studies. The emphasis will be to further the student's oral proficiency and to continue the development of skills in reading and writing through the use of contemporary literature.

Semester 2 is designed for students with a high level of proficiency in the language. Students must pass the first semester with a 70+ to be eligible for the second semester in the spring. Successful completion of both semesters will prepare students to take the Spanish IV AP course the following year.

Advanced Grade Points: Yes

SPANISH 1

KISD #: 2601

Grades: 9-12

1 Credit

Prerequisite:

None

Spanish 1 is an introduction to the Spanish-speaking world, its language, and its people. The main emphasis is on early oral communication skills while developing reading and writing skills. Grammar skills are introduced holistically through both oral and written expression. The student will develop an understanding of the Spanish culture.

SPANISH 2

KISD #: 2602

Grades: 9-12

1 Credit

Prerequisite:

Spanish 1

Spanish 2 emphasizes the further development of the four communication skills: reading, writing, speaking, and listening. Classes are conducted mostly in the language to meet the ACTFL standards of proficiency in the language.

SPANISH 2 PRE-AP

KISD #: 2602Q

Grades: 9-12

1 Credit

Prerequisite:

Spanish 1 Pre-AP Guidelines

This course is designed for students preparing for the AP tract. The focus of the course is language acquisition at the novice-high to intermediate-low proficiency levels. Classes are conducted mostly in the language to meet the ACTFL standards of proficiency in the language.

Advanced Grade Points: Yes

SPANISH 2 PIP

KISD #: 3490

Grades: 9 or 10

1 Credit

Prerequisite:

Spanish 1

This course develops the four communications skills of reading, writing, speaking, and listening in depth. Vocabulary, speaking fluency, writing proficiency, and Spanish culture will be emphasized. The focus of this course is language acquisition at the novice-high to intermediate-low proficiency levels and preparation for the depth and complexity of Spanish International Baccalaureate courses.

SPANISH 3 PIP

KISD #: 3492

Grades: 10-11

1 Credit

Prerequisite:

Spanish 1 and 2 PIP

This course develops the four communications skills of reading, writing, speaking, and listening in depth. Vocabulary, speaking fluency, writing proficiency, and Spanish culture will be emphasized. The focus of this course is language acquisition at the novice-high to intermediate-low proficiency levels and preparation for the depth and complexity of Spanish International Baccalaureate courses.

Advanced Grade Points: Yes

SPANISH 3

KISD #: 2603

Grades: 9-12

1 Credit

Prerequisite: Spanish 2

Level III Spanish classes are conducted in the language and provide opportunities to develop intermediate language proficiency in speaking, listening, reading and writing; so as to meet the ACTFL standards of proficiency in the language.

SPANISH 3 PRE-AP

KISD #: 2604Q

Grades: 9-12

1 Credit

Prerequisite: Spanish 2 Pre-AP Guidelines

This course is designed for students preparing for the AP tract; and provides opportunities for students to acquire intermediate-mid to intermediate-high proficiency skills in speaking, reading, writing, and listening in the Spanish language. Classes are conducted primarily in the language to meet the ACTFL standards of proficiency in the language.

Advanced Grade Points: Yes

ADVANCED PLACEMENT – SPANISH LANGUAGE

KISD #: 2609

Grades: 9-12

1 Credit

Prerequisite: Spanish 3 or placement

This course provides opportunities for students to acquire advanced-low to advanced-mid proficiency in Spanish and is for highly qualified students who excel in language study and are interested in accepting the challenges of a more rigorous instructional program. The Advanced Placement (AP) Spanish-Language course covers the equivalent of a third year college course in advanced Spanish composition and conversation with emphasis on the development of advanced proficiencies. The course emphasizes language skills, composition, and grammar with emphasis on active communication with the following objectives: (1) the ability to comprehend formal and informal spoken Spanish; (2) the acquisition of vocabulary to allow reading of newspapers and magazines, and modern Spanish literature; (3) the ability to write well-organized essays; and, (4) the ability to express ideas orally with accuracy and fluency. Extensive training in the organization and writing of compositions is an integral part of the Advanced Placement Spanish Language and Culture course. The Advanced Placement (AP) program is a co-operative effort with The College Board. The student will be prepared to take an examination upon which successful completion will enable participating colleges to grant credit and appropriate placement. The student is responsible for the examination fee.

Advanced Grade Points: Yes

ADVANCED PLACEMENT-SPANISH LITERATURE LEVEL V

KISD #: 2600

Grades: 9-12 1 Credit

Prerequisite: AP Spanish Language or placement

The AP® Spanish Literature course is designed to provide students with a learning experience equivalent to that of an introductory college course. This course provides opportunities for students to acquire advanced-low to advanced-mid proficiency in Spanish. Classes are conducted solely in the language to meet the ACTFL standards of proficiency in the language. The student is responsible for the AP examination fee.

Advanced Grade Points: Yes

IB SPANISH SL/HL

KISD #: 3450, 3451

Grades: 11-12 1 Credit

Prerequisite: Spanish 3 Pre-AP Spanish 3, Level 4 Highly

Recommended

This course incorporates the development of communication skills in listening, speaking, reading, and writing. Students will develop new communication skills by using knowledge of the oral and written language, technology, and content from other subject areas. This course provides opportunities for students to acquire advanced-low to advanced-mid proficiency in Spanish. Extensive training in the organization and writing of compositions is an integral part of the Advanced Placement Spanish-Language course. Classes are conducted solely in the language to meet the ACTFL standards of proficiency in the language. The student is responsible for the AP examination fee.

Advanced Grade Points: Yes

CLASSICAL LANGUAGES: LATIN

LATIN 1

KISD #: 2631

Grades: 9-12 1 Credit

Prerequisite: None

This course serves as an introduction to the study of Latin as a classical language. Basic listening, speaking, reading, and writing skills are developed progressing toward a novice-mid level proficiency. Communication skills are the primary focus of language acquisition. At the end of Level I, students will be able to express themselves and engage in simple conversations in Latin within the limits of their knowledge of vocabulary and structure.

LATIN 2

KISD #: 2632

Grades: 10-12 1 Credit

Prerequisite: None

This novice-mid to novice-high proficiency level course is a continuation of the novice-mid proficiency established in Latin 1. As the course continues, new grammar and structural concepts are included with an increased emphasis on reading, writing, speaking and listening and the culture of the Roman Empire.

LATIN 2 PRE-AP

KISD #: 2632PA

Grades: 10-12 1 Credit

Prerequisite: Latin 1

This course is designed for students preparing for the AP tract. The focus of the course is language acquisition at the novice-high to intermediate-low proficiency levels. Classes are conducted in the language as much as possible to meet the ACTFL standards of proficiency in the language.

Advanced Grade Points: Yes

LATIN 3

KISD #: 2633

Grades: 11-12 1 Credit

Prerequisite: Latin 2

This course emphasizes intermediate-low to intermediate-mid proficiency development. The student will study the writings of Cicero, Pliny, and Livy, and will be able to write simple, directed compositions.

LATIN 3 PRE-AP

KISD #: 2634Q

Grades: 11-12 1 Credit

Prerequisite: Latin 2 and Pre-AP Guidelines

This course is designed for students preparing for the AP tract; and will provide opportunities for students to acquire intermediate-mid to intermediate-high proficiency in Latin. Readings will consist of works such as Cicero and Ovid.

Advanced Grade Points: Yes

LATIN 4

KISD #:

Grades: 11-12 1 Credit

Prerequisite: Latin 3

This course will give students an additional year to build proficiency in the language before moving on to the AP course. Emphasis will be placed on listening, speaking, reading, and writing.

ADVANCED PLACEMENT LATIN

KISD #: 2637

Grades: 11-12 1 Credit

Prerequisite: Latin 3 Pre-AP

Since the appreciation of Latin literature requires an understanding of the literary techniques of Latin writers and of poetic meters when appropriate, stylistic analysis is an integral part of the advanced work of the course. The AP Latin course includes the study of the cultural, social, and political context of literature. Classes are conducted primarily in the language to meet the ACTFL standards of proficiency in the language. The student is responsible for the AP examination fee.

Advanced Grade Points: Yes

Seminar in Classical Languages, Advanced –Latin

KISD #: 2690

Grades: 10-12 1 Credit

Prerequisite: AP Courses

(This course may be taken with different course content for a maximum of three credits).

Students will study topics assigned by the teacher for research and presentation. A prerequisite to enroll into this course is a minimum proficiency level of Advanced Mid in reading and a minimum performance level of Novice High in listening, speaking, and writing on the American Council on the Teaching of Foreign Languages (ACTFL) scale. Fluency in Latin should reflect a minimum proficiency level of Novice High in the speaking, listening, and writing skills. The student will be required to create and present a comprehensive portfolio.

MANDARIN CHINESE 1

2651

Grades: 9-12

1 Credit

Prerequisite: None

This course is the third year of the Sign Language sequence. In this course, the student will continue to develop proficiency in communicating by learning vocabulary, syntax and grammar. In addition to understanding the deaf culture, students will learn how to interact competently and comfortably with hearing-impaired individuals.

MANDARIN CHINESE PRE-AP 2

2652Q

Grades: 9-12

1 Credit

Prerequisite: Mandarin Chinese 1

This course is the third year of the Sign Language sequence. In this course, the student will continue to develop proficiency in communicating by learning vocabulary, syntax and grammar. In addition to understanding the deaf culture, students will learn how to interact competently and comfortably with hearing-impaired individuals.

Advanced Grade Points: Yes

MANDARIN CHINESE PRE-AP 3

NEW

Grades: 9-12

1 Credit

Prerequisite: Mandarin Chinese 2 or Placement Test

This course is designed for students preparing for the AP tract. Students will complete the study of the basic structure of the language while deepening their communication skills, and will be taught exclusively in Chinese.

Advanced Grade Points: Yes

MANDARIN CHINESE ADVANCED PLACEMENT

NEW

Grades: 12 **1 Credit**
Prerequisite: **Mandarin Chinese 2 or Placement Test**

This course provides opportunities for students to acquire advanced-low to advanced-mid proficiency in Chinese. Extensive training in the organization and writing of compositions is an integral part of the Advanced Placement Chinese-Language course. Classes are conducted primarily in the language to meet the ACTFL standards of proficiency in the language. The student is responsible for the AP examination fee.

Advanced Grade Points: Yes

FRENCH 1

KISD #: 2611
Grades: 9-12 **1 Credit**
Prerequisite: **None**

French 1 is an introduction to the French-speaking world, its language, and its people. The main emphasis is on early oral communication skills while developing reading and writing skills. Grammar skills are introduced holistically through both oral and written expression. The student will develop an understanding of the culture of the French-speaking world.

FRENCH 2

KISD #: 2612
Grades: 9-12 **1 Credit**
Prerequisite: **French 1**

French 2 emphasizes the further development of the four communication skills: reading, writing, speaking, and listening. Students will study the culture not only of France, but also the French-speaking world. Classes are conducted in the language as much as possible to meet the ACTFL standards of proficiency in the language.

FRENCH 2 PRE-AP

KISD #: 2612Q
Grades: 9-12 **1 Credit**
Prerequisite: **French 1**

This course is designed for students preparing for the AP tract. Classes are conducted in the language as much as possible to meet the ACTFL standards of proficiency in the language.

Advanced Grade Points: Yes

FRENCH 2 PIP

KISD #: 3482
Grades: 9-12 **1 Credit**
Prerequisite: **French 1**

This course develops the four communications skills of reading, writing, speaking, and listening in depth. Vocabulary, speaking fluency, writing proficiency, and Francophone culture will be emphasized. The focus of this course is language acquisition at the novice-high to intermediate-low proficiency levels and preparation for the depth and complexity of French Advanced Placement/International Baccalaureate courses.

Advanced Grade Points: Yes

FRENCH 3

KISD #: 2613
Grades: 9-12 **1 Credit**
Prerequisite: **French 2**

French 3 emphasizes speaking and listening skills. By the end of the year, students will have a general knowledge of the basic structure of the language and will be able to converse on a variety of topics. Cultural topics will include contemporary issues in French-speaking countries as well as real-life situations students might encounter while visiting a French-speaking country.

Advanced Grade Points: Yes

FRENCH 3 PRE-AP

KISD #: 2614Q
Grades: 9-12 **1 Credit**
Prerequisite: **French 2 Pre-AP Guidelines**

This course is designed for students preparing for the AP tract. Students will complete the study of the basic structure of the language while deepening their communication skills, and will be taught exclusively in French.

Advanced Grade Points: Yes

FRENCH 3 PIP

KISD #: 3484
Grades: 9-12 **1 Credit**
Prerequisite: **French 1, French 2 (The French 2 PIP/Pre-AP level course is recommended)**

This course is designed to prepare students for French 4IB. Emphasis will be placed on oral and written skills in preparation for IB assessments taken in the junior or senior year. Students will build upon the skills of listening, speaking, reading and writing attained in French 1 and 2.

Advanced Grade Points: Yes

FRENCH 4 (Pre-AP)

KISD #: 2616PA
Grades: 9-12 **1 Credit**
Prerequisite: **French 3 Pre-AP Guidelines**

This course is designed for students preparing for the AP tract. The goal is to create reasonable fluency in the four communication areas: reading, writing, listening, and speaking. This course is designed to prepare students for the College Board Advanced Placement French Language and Culture examination.

Advanced Grade Points: Yes

ADVANCED PLACEMENT FRENCH LANGUAGE

KISD #: 2620
Grades: 9-12 **1 Credit**
Prerequisite: **French 3 (Pre-AP) Pre-AP Guidelines Recommended**

This course provides opportunities for students to acquire advanced-low to advanced-mid proficiency in French. Extensive training in the organization and writing of compositions is an integral part of the Advanced Placement French-Language course. The student will prepare to take the French AP exam, and is responsible for the AP examination fee.

Advanced Grade Points: Yes

IB FRENCH SL/HL

KISD #: 3440, 3441

Grades: 11-12 1 Credit

Prerequisite: Pre IP or French 3

This course incorporates the development of communication skills in listening, speaking, reading, and writing. Students will develop new communication skills by using knowledge of the oral and written language, technology, and content from other subject areas. Students may choose to take the Standard Level exam at the end of the junior year or take another year of French and choose either the Standard Level or Higher Level exam.

Advanced Grade Points: Yes

GERMAN 1

KISD #: 2621

Grades: 9-12 1 Credit

Prerequisite: None

German 1 is an introduction to the German-speaking world, its language, culture, and its people. The main emphasis is on early oral communication skills while developing reading and writing skills. Grammar skills are introduced through both oral and written expression. Classes are conducted in the language as much as possible to meet the ACTFL standards of proficiency in the language.

GERMAN 2

KISD #: 2622

Grades: 9-12 1 Credit

Prerequisite: German 1

German 2 emphasizes the further development of the four communication skills: reading, writing, speaking, and listening. Classes are conducted in the language as much as possible to meet the ACTFL standards of proficiency in the language.

German 2 PIP

KISD #:

Grades: 9-12 1 Credit

Prerequisite: German 1

This course develops the four communications skills of reading, writing, speaking, and listening in depth. Vocabulary, speaking fluency, writing proficiency, and Francophone culture will be emphasized. The focus of this course is language acquisition at the novice-high to intermediate-low proficiency levels and preparation for the depth and complexity of German Advanced Placement/International Baccalaureate courses.

Advanced Grade Points: Yes

GERMAN 2 PRE-AP

KISD #: 2622Q

Grades: 9-12 1 Credit

Prerequisite: German 1

This course is designed for students preparing for the AP tract. The focus of the course is language acquisition at the novice-high to intermediate-low proficiency levels. Classes are conducted in the language as much as possible to meet the ACTFL standards of proficiency in the language.

Advanced Grade Points: Yes

GERMAN 3

KISD #: 2623

Grades: 9-12 1 Credit

Prerequisite: German 2

Level III German classes are conducted in the language and provide opportunities to develop intermediate language proficiency in speaking, listening, reading and writing; so as to meet the ACTFL standards of proficiency in the language.

German 3 PIP

KISD #:

Grades: 9-12 1 Credit

Prerequisite: German 1, German 2 (The German 2 PIP/Pre-AP level course is recommended)

This course is designed to prepare students for German 4IB. Emphasis will be placed on oral and written skills in preparation for IB assessments taken in the junior or senior year. Students will build upon the skills of listening, speaking, reading and writing attained in German 1 and 2.

Advanced Grade Points: Yes

GERMAN 3 PRE-AP

KISD #: 2624Q

Grades: 9-12 1 Credit

Prerequisite: German 2 and Pre-AP Guidelines

This course is designed for students preparing for the AP tract; and provides opportunities for students to acquire intermediate-mid to intermediate-high proficiency skills in speaking, reading, writing, and listening in the German language. Classes are conducted primarily in the language to meet the ACTFL standards of proficiency in the language.

Advanced Grade Points: Yes

ADVANCED PLACEMENT GERMAN LANGUAGE

KISD #: 2627

Grades: 12 1 Credit

Prerequisite: German 3

This course provides opportunities for students to acquire advanced-low to advanced-mid proficiency in German. Extensive training in the organization and writing of compositions is an integral part of the Advanced Placement German-Language course. Classes are conducted primarily in the language to meet the ACTFL standards of proficiency in the language. The student is responsible for the AP examination fee.

Advanced Grade Points: Yes

Mathematics

ALGEBRA 1

KISD #: 0330

Grades: 9 1 Credit

Prerequisite: 8TH Grade Mathematics

This course serves as the foundation to all upper level mathematics courses and is a requirement for graduation.

Students will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. Students will connect functions and their associated solutions in both mathematical and real-world situations. Students will use technology, specifically the graphing calculator, to collect and explore data and analyze statistical relationships. In addition, students will study polynomials of degree one and two, radical expressions, sequences, and laws of exponents. Students will generate and solve linear systems with two equations and two variables and will create new functions through transformations.

This course requires an EOC exam.

ALGEBRA 1 ESL

KISD #: 0330N

Grades: 9 1 Credit

Prerequisite: 8TH Grade Mathematics

Counselor Approval

This course will cover the essential elements of the regular algebra course with an emphasis on a variety of methods and modalities for instruction to meet the needs of the limited English speaker.

This course serves as the foundation to all upper level mathematics courses and is a requirement for graduation.

Students will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. Students will connect functions and their associated solutions in both mathematical and real-world situations. Students will use technology, specifically the graphing calculator, to collect and explore data and analyze statistical relationships. In addition, students will study polynomials of degree one and two, radical expressions, sequences, and laws of exponents. Students will generate and solve linear systems with two equations and two variables and will create new functions through transformations.

This course requires an EOC exam.

ALGEBRA 1 PRE-AP

KISD #: 0330Q

Advanced Grade Points: yes

Grades: 9

1 Credit

Prerequisite:

8TH Grade Mathematics

This course will emphasize the study of Algebra 1 concepts with extensions. A strong emphasis will be place on critical thinking and problem solving skills. The level of instruction and curriculum is intended on preparing students for advanced placement mathematics courses.

This course serves as the foundation to all upper level mathematics courses and is a requirement for graduation.

Students will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. Students will connect functions and their associated solutions in both mathematical and real-world situations. Students will use technology, specifically the graphing calculator, to collect and explore data and analyze statistical relationships. In addition, students will study polynomials of degree one and two, radical expressions, sequences, and laws of exponents. Students will generate and solve linear systems with two equations and two variables and will create new functions through transformations.

This course requires an EOC exam.

ALGEBRA 1 PRE-AP/GT

KISD #: 0337

Advanced Grade Points: yes

Grades: 9

1 Credit

Prerequisite:

8TH Grade Mathematics/meet district GT Guidelines

This course will emphasize the study of Algebra 1 concepts with extensions. A strong emphasis will be place on critical thinking and problem solving skills. The level of instruction and curriculum is intended on preparing gifted students for advanced placement mathematics courses. This course may require independent and guided research. GT services are provided through the Pre-AP classes.

This course serves as the foundation to all upper level mathematics courses and is a requirement for graduation.

Students will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. Students will connect functions and their associated solutions in both mathematical and real-world situations. Students will use technology, specifically the graphing calculator, to collect and explore data and analyze statistical relationships. In addition, students will study polynomials of degree one and two, radical expressions, sequences, and laws of exponents. Students will generate and solve linear systems with two equations and two variables and will create new functions through transformations.

This course requires an EOC exam.

ALGEBRAIC REASONING

KISD #: 0351

Grades: 10-11

1 Credit

Prerequisite:

Algebra 1

The focus of this course is intended on preparing students who need more time in developing algebraic concepts to be successful in subsequent math courses.

Students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I, continue with the development of mathematical reasoning related to algebraic understandings and processes, and deepen a foundation for studies in subsequent mathematics courses.

Students will broaden their knowledge of functions and relationships, including linear, quadratic, square root, rational, cubic, cube root, exponential, absolute value, and logarithmic functions. Students will study these functions through analysis and application that includes explorations of patterns and structure, number and algebraic methods, and modeling from data using tools that build to workforce and college readiness such as probes, measurement tools, and software tools, including spreadsheets.

GEOMETRY

KISD #: 0340

Grades: 9-11

1 Credit

Prerequisite:

Algebra 1

This course serves as a foundational math course and is a requirement for graduation.

Students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I to strengthen their mathematical reasoning skills in geometric contexts. Within the course, students will begin to focus on more precise terminology, symbolic representations, and the development of proofs. Students will explore concepts covering coordinate and transformational geometry; logical argument and constructions; proof and congruence; similarity, proof, and trigonometry; two- and three-dimensional figures; circles; and probability. Students will connect previous knowledge from Algebra I to Geometry through the coordinate and transformational geometry strand. In the logical arguments and constructions strand, students are expected to create formal constructions using a straightedge and compass. Though this course is primarily Euclidean geometry, students should complete the course with an understanding that non-Euclidean geometries exist. In proof and congruence, students will use deductive reasoning to justify, prove and apply theorems about geometric figures. Throughout the standards, the term "prove" means a formal proof to be shown in a paragraph, a flow chart, or two-column formats. Proportionality is the unifying component of the similarity, proof, and trigonometry strand. Students will use their proportional reasoning skills to prove and apply theorems and solve problems in this strand. The two- and three-dimensional figure strand focuses on the application of formulas in multi-step situations since students have developed background knowledge in two- and three-dimensional figures. Using patterns to identify geometric properties, students will apply theorems about circles to determine relationships between special segments and angles in circles. Due to the emphasis of probability and statistics in the college and career readiness standards, standards dealing with probability have been added to the geometry curriculum to ensure students have proper exposure to these topics before pursuing their post-secondary education.

GEOMETRY PRE-AP

KISD #: 0343Q

Grades: 9-10

Prerequisite:

Advanced Grade Points: yes

1 Credit

Algebra 1 or Algebra 1 Pre-AP

This course will emphasize the study of Geometry concepts with extensions. Students will extend their work with proofs to include additional theorems and alternate proof approaches. The level of instruction and curriculum is intended on preparing students for advanced placement mathematics courses.

This course serves as a foundational math course and is a requirement for graduation.

Students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I to strengthen their mathematical reasoning skills in geometric contexts. Within the course, students will begin to focus on more precise terminology, symbolic representations, and the development of proofs. Students will explore concepts covering coordinate and transformational geometry; logical argument and constructions; proof and congruence; similarity, proof, and trigonometry; two- and three-dimensional figures; circles; and probability. Students will connect previous knowledge from Algebra I to Geometry through the coordinate and transformational geometry strand. In the logical arguments and constructions strand, students are expected to create formal constructions using a straightedge and compass. Though this course is primarily Euclidean geometry, students should complete the course with an understanding that non-Euclidean geometries exist. In proof and congruence, students will use deductive reasoning to justify, prove and apply theorems about geometric figures. Throughout the standards, the term "prove" means a formal proof to be shown in a paragraph, a flow chart, or two-column formats. Proportionality is the unifying component of the similarity, proof, and trigonometry strand. Students will use their proportional reasoning skills to prove and apply theorems and solve problems in this strand. The two- and three-dimensional figure strand focuses on the application of formulas in multi-step situations since students have developed background knowledge in two- and three-dimensional figures. Using patterns to identify geometric properties, students will apply theorems about circles to determine relationships between special segments and angles in circles. Due to the emphasis of probability and statistics in the college and career readiness standards, standards dealing with probability have been added to the geometry curriculum to ensure students have proper exposure to these topics before pursuing their post-secondary education.

GEOMETRY PRE-AP/GT

KISD #: 0347Q **Advanced Grade Points:** yes
Grades: 9-12 **1 Credit**
Prerequisite: **Algebra 1 or Algebra 1 Pre-AP/ meet district GT guidelines**

This course will emphasize the study of Algebra 1 concepts with extensions. Students will extend their work with proofs to include additional theorems and alternate proof approaches. The level of instruction and curriculum is intended on preparing gifted students for advanced placement mathematics courses. This course may require independent and guided research. GT services are provided through the Pre-AP classes.

This course serves as a foundational math course and is a requirement for graduation.

Students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I to strengthen their mathematical reasoning skills in geometric contexts. Within the course, students will begin to focus on more precise terminology, symbolic representations, and the development of proofs. Students will explore concepts covering coordinate and transformational geometry; logical argument and constructions; proof and congruence; similarity, proof, and trigonometry; two- and three-dimensional figures; circles; and probability. Students will connect previous knowledge from Algebra I to Geometry through the coordinate and transformational geometry strand. In the logical arguments and constructions strand, students are expected to create formal constructions using a straightedge and compass. Though this course is primarily Euclidean geometry, students should complete the course with an understanding that non-Euclidean geometries exist. In proof and congruence, students will use deductive reasoning to justify, prove and apply theorems about geometric figures. Throughout the standards, the term "prove" means a formal proof to be shown in a paragraph, a flow chart, or two-column formats. Proportionality is the unifying component of the similarity, proof, and trigonometry strand. Students will use their proportional reasoning skills to prove and apply theorems and solve problems in this strand. The two- and three-dimensional figure strand focuses on the application of formulas in multi-step situations since students have developed background knowledge in two- and three-dimensional figures. Using patterns to identify geometric properties, students will apply theorems about circles to determine relationships between special segments and angles in circles. Due to the emphasis of probability and statistics in the college and career readiness standards, standards dealing with probability have been added to the geometry curriculum to ensure students have proper exposure to these topics before pursuing their post-secondary education.

The level of instruction/curriculum will focus on preparing the gifted student for advanced placement mathematics courses. This course may require independent and guided research. GT services are provided through the Pre-AP classes.

MATH MODELS WITH APPLICATIONS

KISD #: 0383
Grades: 11-12 **1 Credit**
Prerequisite: **Algebra 1**

Students will use algebraic, graphical, and geometric reasoning to recognize patterns and structure to model information and solve problems. Students will model and solve real-life problems involving money, data, chance, patterns, music, design, and science. Students will use a variety of representations, tools, and technology to link modeling techniques with mathematical concepts to solve applied problems.

STATISTICS

KISD #: 0396
Grades: 11-12 **1 Credit**
Prerequisite: **Algebra 1**

Students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I. Students will broaden their knowledge of variability and statistical processes. Students will study sampling and experimentation, categorical and quantitative data, probability and random variables, inference, and bivariate data. Students will connect data and statistical processes to real-world situations. In addition, students will extend their knowledge of data analysis.

FINANCIAL MATHEMATICS

KISD #: 919018 **PEIMS: 13018000**
Grades: 10-12 **1.0 Credit/3rd Math Credit Option**
Prerequisite: **Algebra I**

Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors. Students will use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution. This course is also listed in the CTE section of the Catalog.

ALGEBRA 2

KISD #: 0350
Grades: 11-12 **.5 - 1 Credit**
Prerequisite: **Algebra 1 and Geometry**

This course is a prerequisite for many fourth year math courses.

Students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I

Students will broaden their knowledge of quadratic functions, exponential functions, and systems of equations.

Students will study logarithmic, square root, cubic, cube root, absolute value, rational functions, and their related equations. Students will connect functions to their inverses and associated equations and solutions in both mathematical and real-world situations. In addition, students will extend their knowledge of data analysis and numeric and algebraic methods. This course can also be found in the CTE section of the catalog.

ALGEBRA 2 Pre-AP (Blended-Learning)

KISD #: 0359 **Advanced Grade Points: yes**
Grades: 11-12 **.5 - 1 Credit**
Prerequisite: **Algebra 1 and Geometry**

Students will build on the knowledge and skills for mathematics Algebra I. Students will broaden their knowledge of quadratic functions, exponential functions, and systems of equations. Students will study logarithmic, square root, cubic, cube root, absolute value, rational functions, and their related equations. Students will connect functions to their inverses and associated equations and solutions in both mathematical and real-world situations. In addition, students will extend their knowledge of data analysis and numeric and algebraic methods. The class will meet face-to-face twice a week and in an online setting the remaining days of the week. The face-to face days provide students time to collaborate and work in groups. On the alternate days, students may work online or in the classroom where they can receive individualized instruction. Students must be organized independent learners.

ALGEBRA 2 PRE-AP

KISD #: 0353Q **Advanced Grade Points: yes**
Grades: 9-11 **.5 - 1 Credit**
Prerequisite: **Algebra 1 and Geometry**

This course will emphasize the study of Alg 2 concepts with extensions. A strong emphasis will be place on critical thinking, problem solving skills, and a focus on functional analysis to align with the College and Career Readiness Standards. The level of instruction and curriculum is intended on preparing students for advanced placement mathematics courses.

This course is a prerequisite for many fourth year math courses.

Students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I

Students will broaden their knowledge of quadratic functions, exponential functions, and systems of equations. Students will study logarithmic, square root, cubic, cube root, absolute value, rational functions, and their related equations. Students will connect functions to their inverses and associated equations and solutions in both mathematical and real-world situations. In addition, students will extend their knowledge of data analysis and numeric and algebraic methods.

ALGEBRA 2 PRE-AP/GT

KISD #: 0354Q **Advanced Grade Points: yes**
Grades: 9-11 **.5 - 1 Credit**
Prerequisite: **Algebra 1 and Geometry/meets district GT guidelines**

This course will emphasize the study of Algebra 2 concepts with extensions. A strong emphasis will be place on critical thinking, problem solving skills, and a focus on functional analysis to align with the College and Career Readiness Standards. The level of instruction and curriculum is intended on preparing gifted students for advanced placement mathematics courses. This course may require independent and guided research. GT services are provided through the Pre-AP classes.

This course is a prerequisite for many fourth year math courses.

Students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I

Students will broaden their knowledge of quadratic functions, exponential functions, and systems of equations.

Students will study logarithmic, square root, cubic, cube root, absolute value, rational functions, and their related equations. Students will connect functions to their inverses and associated equations and solutions in both mathematical and real-world situations. In addition, students will extend their knowledge of data analysis and numeric and algebraic methods.

ADVANCED QUANTITATIVE REASONING

KISD #: 0391
Grades: 11-12 **1 Credit**
Prerequisite: **Algebra 1, Geometry and Algebra 2**

In Advanced Quantitative Reasoning, students will develop and apply skills necessary for college, careers, and life. Course content consists primarily of applications of high school mathematics concepts to prepare students to become well-educated and highly informed 21st century citizens. Students will develop and apply reasoning, planning, and communication to make decisions and solve problems in applied situations involving numerical reasoning, probability, statistical analysis, finance, mathematical selection, and modeling with algebra, geometry, trigonometry, and discrete mathematics. This course is designed to prepare students for a variety of future paths in college, including the social sciences, computers, business, and health fields.

PRE-CALCULUS Advanced

KISD #: 0360 **Advanced Grade Points: yes**
Grades: 10-12 **.5 - 1 Credit**
Prerequisite: **Algebra 1, Geometry and Algebra 2**

The level of instruction and curriculum is intended on preparing students for college level mathematics coursework.

Pre-calculus is the preparation for calculus.

Students will approach topics from a function point of view, where appropriate, and is designed to strengthen and enhance conceptual understanding and mathematical reasoning used when modeling and solving mathematical and real-world problems. Students systematically work with functions and their multiple representations. Students will deepen their mathematical understanding and fluency with algebra and trigonometry and extend their ability to make connections and apply concepts and procedures at higher levels. Students investigate and explore mathematical ideas, develop multiple strategies for analyzing complex situations, and use technology to build understanding, make connections between representations, and provide support in solving problems.

PRE-CALCULUS Pre-AP (Blended Learning)

KISD #: 0369 Advanced Grade Points: yes
Grades: 11-12 .5 - 1 Credit
Prerequisite: Algebra 1, Geometry and Algebra 2

This class will meet face-to-face twice a week and in an online setting the remaining days of the week. The face-to-face days provide students time to collaborate and work in groups. On the alternate days, students may work online or in the classroom where they can receive individualized instruction. Students must be organized independent learners. The level of instruction and curriculum is intended on preparing students for college level mathematics coursework.

Pre-calculus is the preparation for calculus.

The course approaches topics from a function point of view, where appropriate, and is designed to strengthen and enhance conceptual understanding and mathematical reasoning used when modeling and solving mathematical and real-world problems. Students systematically work with functions and their multiple representations. The study of Pre-calculus deepens students' mathematical understanding and fluency with algebra and trigonometry and extends their ability to make connections and apply concepts and procedures at higher levels. Students investigate and explore mathematical ideas, develop multiple strategies for analyzing complex situations, and use technology to build understanding, make connections between representations, and provide support in solving problems.

PRE-CALCULUS PRE-AP

KISD #: 0363Q Advanced Grade Points: yes
Grades: 10-12 .5 - 1 Credit
Prerequisite: Algebra 1, Geometry and Algebra 2

This course will emphasize the study of Precalculus concepts with extensions. The level of instruction and curriculum is intended on preparing students for AP Calculus and college level mathematics coursework.

Pre-calculus is the preparation for calculus.

The course approaches topics from a function point of view, where appropriate, and is designed to strengthen and enhance conceptual understanding and mathematical reasoning used when modeling and solving mathematical and real-world problems. Students systematically work with functions and their multiple representations. The study of Pre-calculus deepens students' mathematical understanding and fluency with algebra and trigonometry and extends their ability to make connections and apply concepts and procedures at higher levels. Students investigate and explore mathematical ideas, develop multiple strategies for analyzing complex situations, and use technology to build understanding, make connections between representations, and provide support in solving problems.

PRE-CALCULUS PRE-AP/GT

KISD #: 0364Q Advanced Grade Points: yes
Grades: 10-12 .5 - 1 Credit
Prerequisite: Algebra 1, Geometry and Algebra 2

This course will emphasize the study of Precalculus concepts with extensions. The level of instruction and curriculum is intended on preparing students for AP Calculus and college level mathematics coursework.

Pre-calculus is the preparation for calculus.

The course approaches topics from a function point of view, where appropriate, and is designed to strengthen and enhance conceptual understanding and mathematical reasoning used when modeling and solving mathematical and real-world problems. Students systematically work with functions and their multiple representations. The study of Pre-calculus deepens students' mathematical understanding and fluency with algebra and trigonometry and extends their ability to make connections and apply concepts and procedures at higher levels. Students investigate and explore mathematical ideas, develop multiple strategies for analyzing complex situations, and use technology to build understanding, make connections between representations, and provide support in solving problems.

PRE-CALCULUS DUAL CREDIT

KISD #: 0360DC
Grades: 11-12 1 Credit
Prerequisite: Meets district guidelines

An integrated treatment of the concepts necessary for calculus beginning with a review of algebraic and transcendental functions including trigonometric functions. Topics include binomial theorem, analytic geometry, vector algebra, polar and parametric equations, mathematical induction and sequences and series.

Advanced Grade Points: yes
Dual Credit Correlation: MATH 2412

There are currently 3 AP Math course choices - the focus of these courses is preparation for successful completion of the AP Exams in May as well as support future mathematical coursework in college. Students should make choices in AP coursework that will align with future college plans.

CALCULUS ADVANCED PLACEMENT / AB

KISD #: 0365 Advanced Grade Points: yes
Grades: 11-12 1 Credit
Prerequisite: Algebra 1, Geometry, Algebra 2 and Pre-Calculus (Pre-AP coursework recommended)

This is an Advanced Placement course designed to meet the requirements of Calculus AB as outlined in the Course Description of the Advanced Placement Program in Mathematics.

Students have 2 options when selecting a Calculus class and are advised to take a Calculus course in which they will be challenged and yet will perform successfully.

AP Calculus AB is roughly equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. The AP course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.

CALCULUS ADVANCED PLACEMENT / BC

KISD #: 0367	Advanced Grade Points: yes
Grades: 11-12	1 Credit
Prerequisite:	Algebra 1, Geometry, Algebra 2 and Pre-Calculus (Pre-AP coursework recommended)

This is an Advanced Placement course designed to meet the requirements of Calculus BC as outlined in the Course Description of the Advanced Placement Program in Mathematics. This course is an extension of Calculus AB rather than an enhancement.

Students have 2 options when selecting a Calculus class and are advised to take a Calculus course in which they will be challenged and yet will perform successfully.

AP Calculus BC is roughly equivalent to both first and second semester college calculus courses and extends the content learned in AB to different types of equations and introduces the topic of sequences and series. In addition to the topics covered in Calculus AB, this course expands upon the applications of derivatives and integrals. Calculus BC also covers polynomial approximation, conics, sequences, and series. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.

STATISTICS ADVANCED PLACEMENT

KISD #: 0397	Advanced Grade Points: yes
Grades: 10-12	1 Credit
Prerequisite:	Algebra 1, Geometry, and Algebra 2 (Pre-AP coursework recommended)

This is an Advanced Placement course designed to meet the requirements of Statistics as outlined in the Course Description of the Advanced Placement Program in Mathematics.

The AP Statistics course is equivalent to a one-semester, introductory, non-calculus-based college course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes in the AP Statistics course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding.

MATHEMATICS SL

KISD #: 3422	Advanced Grade Points: Yes
Grades: 11-12	1 Credit
Prerequisite:	PreAP or Pre-IP, Algebra 1, Geometry, Algebra 2 and Pre-Calculus

This is a two-year course taken in the junior and senior years by students planning to include mathematics as a major component of their studies, either as a subject itself or within courses such as physics, engineering, and technology. Students are expected to have a solid foundation in mathematics and be competent in a wide range of analytical and technical skills.

This course will review Algebra, Geometry, and Algebra 2. Methods concentrate on the application of theory to real environmental situations. Topics of study include: set and number theory, elementary coordinate geometry, equations and inequalities, functions, (linear, quadratic, piece, polynomial radical, and rational), exponential and logarithmic functions, conic sections, trigonometry, vectors sequences and series, binomial theorem, statistics and probability. Students are required to work independently and develop an investigation mode, which can be applied to other subject areas, to common world occurrences and to topics that relate to the self-interest of students. The course includes a portfolio based on different areas of the syllabus.

MATHEMATICS SL/HL

KISD #: 3424	Advanced Grade Points: Yes
Grades: 11-12	1 Credit
Prerequisite:	Pre-AP Geometry, Pre-AP Algebra 2, or PIP Pre-Calculus and Calculus BC

This two-year course begins with the study of AP Calculus BC in the junior year and IB Math HL in the senior year. In choosing this course, students will be expecting to include mathematics as a major component of their university studies, either as a subject in its own right or within courses such as physics, engineering and technology. Others may take this subject because they have a strong interest in mathematics and enjoy meeting its challenges and engaging with its problems.

The nature of the subject is such that it focuses on developing important mathematical concepts in a comprehensible, coherent and rigorous way. This is achieved by means of a carefully balanced approach. Students are encouraged to apply their mathematical knowledge to solving problems set in a variety of meaningful contexts. Development of each topic should feature justification and proof of results. Students embarking on this course should expect to develop insight into mathematical form and structure, and should be intellectually equipped to appreciate the links between concepts in different topic areas. They should also be encouraged to develop the skills needed to continue their mathematical growth in other learning environments. Topics of studies include: set and number theory, elementary coordinate geometry, equation and equality, functions (linear equation, quadratic, piece, polynomial radical and rational), exponential and logarithmic functions, trigonometry, vector calculus, and differential equations. The internally assessed component, the portfolio, offers students a framework or developing independence in their mathematical learning through engaging in

mathematical investigation and mathematical modeling. Students will be provided with opportunities to take a considered approach to these activities, and to explore different ways of approaching a problem. The portfolio also allows students to work without the time constraints of a written examination and to develop skills in communicating mathematical ideas. This course is a demanding one, requiring students to study a broad range of mathematical topics through a number of different approaches and to varying degrees of depth.

Independent Study Courses:

In Independent Study in Mathematics, students will extend their mathematical understanding beyond the Algebra II level in a specific area or areas of mathematics such as theory of equations, number theory, non-Euclidean geometry, linear algebra, advanced survey of mathematics, or history of mathematics.

Independent Study: DUAL CREDIT COLLEGE ALGEBRA

KISD #: 0389A, 0389DC **Advanced Grade Points: yes**
Grades: 12 **1 Credit**
Prerequisite: **Algebra 2, TSI requirements and Counselor Approval**

This course requires students to meet enrollment deadlines for Lone Star College and fees apply.

The first semester of this course is designed to strengthen Algebraic, geometric, and statistical reasoning. Its focus will be on Algebra, geometry, and statistical concepts that relate to success in higher level mathematics. These concepts include foundational algebra skills, functions and their graphs, systems of equations, trigonometry, probability, and statistics. The content of the second semester of this course will provide the student with college level MATH-1314/College Algebra.

INDEPENDENT STUDY OF MATHEMATICS PRE-AP OR PRE-AP/GT

KISD #: 0384Q, 0386Q **Advanced Grade Points: yes**
Grades: 11-12 **.5-1 Credit**
Prerequisite: **Algebra 1, Geometry, and Algebra 2 Meets district guidelines, concurrent enrollment in Pre-Calculus**

In Independent Study in Mathematics, students will extend their mathematical understanding beyond the Algebra II level in a specific area or areas of mathematics such as theory of equations, number theory, non-Euclidean geometry, linear algebra, advanced survey of mathematics, or history of mathematics. Potential students must meet prerequisites and have approval of the mathematics department chairman. When accepted, each student will work independently during an assigned period each day on the course selected, and attend regularly scheduled seminars with his consulting teacher for progress reports and critical evaluations.

Math Support Courses:

These courses are designed to support students who do not meet STAAR requirement

MATH IMPROVEMENT

KISD #: 0398
Grades: 9 **.5-1 Credit**
Prerequisite: **Meet district guidelines**

(THIS COURSE IS REQUIRED FOR THOSE STUDENTS WHO HAVE FAILED THE MATHEMATICS PORTION OF THE EIGHTH GRADE STATE ASSESSMENT.)

Instruction focuses on the specific math objectives measured on the Algebra 1 EOC. Emphasis is on the review and practice of the appropriate test-taking strategies a state assessment examinee must employ to succeed on the test.

MATH IMPROVEMENT

KISD #: 0399
Grades: 10 **.5-1 Credit**
Prerequisite: **Meet district guidelines**

This course is strongly encouraged for those students who have failed the mathematics portion of the Algebra 1 EOC. Instruction focuses on the specific math objectives measured on the Algebra 1 EOC. Emphasis is on the review and practice of the appropriate test-taking strategies a state assessment examinee must employ to succeed on the test.

MATH IMPROVEMENT

KISD #: 0400
Grades: 11 **.5-1 Credit**
Prerequisite: **Meet district guidelines**

This course is strongly encouraged for those students who have failed the mathematics portion of the Algebra 1 EOC. Instruction focuses on the specific math objectives measured on the Algebra 1 EOC. Emphasis is on the review and practice of the appropriate test-taking strategies a state assessment examinee must employ to succeed on the test.

TRANSITION TO COLLEGE MATH IMPROVEMENT

KISD #: 0502
Grades: 12 **1 Credit (Elective Credit)**
Prerequisite: **Meet district guidelines**

Topics include basic algebraic operations, solving linear equations and inequalities, laws of integer exponents, factoring, rational expressions, the Cartesian coordinate system, graphing lines, finding equations of lines, solving linear systems, special products and factoring, rational expressions and equations, rational exponents, radicals, radical equations, quadratic equations, absolute value equations and inequalities, complex numbers, equations of lines, an introduction to the function concept, and graphing. This course covers Lone Star math 0308 (Introductory Alg) and math 0310 (Intermediate Algebra) these are transitional math courses for meeting college prerequisite courses. HS Elective credit will be given this is not a Dual Credit course.

INTEGRATED PHYSICS AND CHEMISTRY

KISD #: 0411

Grades: 9-12 **1 Credit**

Prerequisite: **None**

This course is designed to acquaint the student with the concepts and processes of physics and chemistry. Laboratory investigations are an integral part of the course. These laboratory investigations will allow the student to utilize the scientific method and develop critical thinking skills while problem solving. Topics of study shall include properties and relationships of matter and energy, atomic structure, chemical formulas and equations, mechanics, heat, electricity and magnetism, motion, waves, light and sound.

INTEGRATED PHYSICS AND CHEMISTRY LIMITED ENGLISH SHELTERED

KISD #: 0411N

Grades: 9-12 **1 Credit**

Prerequisite: **Counselor Approval**

This course is designed to acquaint the ESL student with the concepts and processes of physics and chemistry. Laboratory investigations are an integral part of the course. These laboratory investigations will allow the student to utilize the scientific method and develop critical thinking skills while problem solving. Topics of study shall include properties and relationships of matter and energy, atomic structure, chemical formulas and equations, mechanics, heat, electricity and magnetism, and light and sound. The course will cover the essential knowledge and skills of the regular integrated physics and chemistry course with an emphasis on a variety of methods and modalities for instruction to meet the needs of the limited English speaker.

BIOLOGY 1

KISD #: 0421

Grades: 9-12 **1 Credit**

Prerequisite: **None**

This course is designed to acquaint the student with the concepts and processes of biology. A developmental approach is utilized beginning with life at the cell level and progressing to the most advanced life forms. Laboratory investigations are an integral part of the course. Topics of study shall include cytology, viruses, tissues and organs of the human systems, genetics, and biological evolution, and taxonomy, energy transfers in living organisms, homeostasis, ecosystems and plants. During the course of instruction in this class, the textbooks, audiovisual materials, and lectures will include instruction and information concerning human growth and development. These topics are designed to inform and instruct only and not to enforce or diminish the individual's personal or religious attitudes. **This course requires an EOC exam.**

BIOLOGY 1 ESL

KISD #: 0421N

Grades: 9-12 **1 Credit**

Prerequisite: **Counselor Approval**

This course is designed to acquaint the ESL student with the concepts and processes of biology. A developmental approach is utilized beginning with life at the cell level and progressing to the most advanced life forms. Laboratory investigations are an integral part of the course. Topics of study shall include cytology, viruses, tissues and organs of the human systems, genetics, biological evolution, taxonomy, energy transfers in living organisms, homeostasis, ecosystems and plants. During the course of instruction in this class, the textbooks, audiovisual materials, and lectures will include instruction and information concerning human growth and development. These topics are designed to inform and instruct only and not to enforce or diminish the individual's personal or religious attitudes. The course will cover the essential knowledge and skills of the regular biology course with an emphasis on a variety of methods and modalities for instruction to meet the needs of the limited English speaker. **This course requires an EOC exam.**

BIOLOGY 1 PRE-AP

KISD #: 0423Q

Grades: 9-12 **1 Credit**

Prerequisite: **None**

This course is designed for the student with a high interest in science and/or who intends to take further science courses. It is designed to acquaint the student with concepts and processes of biology and is an expansion of the regular class. Experimentation and individual student inquiry are essential components of the course. The level of instruction/curriculum will focus on preparing the student for advanced placement courses. These topics are designed to inform and instruct only and not to enforce or diminish the individual's personal or religious attitudes. **This course requires an EOC exam.**

Advanced Grade Points: Yes

BIOLOGY 1 PRE-AP/GT

KISD #: 0427

Grades: 9-12 **1 Credit**

Prerequisite: **Meets district guidelines**

This course is designed for the student with a high aptitude in science, and it acquaints the student with the concepts and processes of biology. This course focuses on strategies to support abstract reasoning problem solving, research skills and a students' active involvement in the learning process. These topics are designed to inform and instruct only and not to enforce or diminish the individual's personal or religious attitudes. GT services are provided through the PreAP classes. **This course requires an EOC exam.**

Advanced Grade Points: Yes

BIOLOGY 1 Pre IP

KISD#:

Grades: 9-12

1 credit

Prerequisite:

None

IB Preparatory Biology provides students with an understanding of the important underlying biological themes of form and function, equilibriums, and evolution as an underlying concept for understanding life on Earth. Students will become knowledgeable about the ideas and concepts fundamental to biology while obtaining the knowledge necessary to be successful on the EOC exam, and in SL or HL Biology.

BIOLOGY 1 ADVANCED PLACEMENT

KISD #: 0425

Grades: 10-12

1 Credit

Prerequisite:

Biology 1 and Chemistry 1

This course examines and discusses the principles of biology in considerable detail. Emphasis is placed on laboratory experiments and individual research. This course follows the Advanced Placement recommended scope and sequence. Topics include: chemistry of life, cells, cellular energetics, heredity and evolutions, organisms and populations. During the course of instruction in this class, the textbooks, audiovisual materials, and lectures will include instruction and information concerning human growth and development. These topics are designed to inform and instruct only and not to enforce or diminish the individual's personal or religious attitudes.

Advanced Grade Points: Yes

BIOLOGY DUAL CREDIT

KISD #: 0425DC

Grades: 11-12

1 Credit

Prerequisite:

Meets district guidelines

A contemporary course including applications of the scientific method, cellular and molecular biology, biochemistry, classical and human genetics, virology and mechanisms of evolution. The course includes a detailed survey of the major phylogenetic lineages as well as the ecological roles and relationships as well as behavior of organisms which will be integrated throughout the course.

Advanced Grade Points: Yes

Dual Credit Correlation: BIOL 1406 and 1407

IB BIOLOGY SL

KISD #: 3430

Grades: 11-12

1 Credit

Prerequisite:

Pre-IP Biology

The primary goal of this course is to help students gain an appreciation of science as a process and provide them with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. The course will consist of lecture, teacher-designed labs, student-designed labs and other types of experimental learning. The material of study for Biology (SL) will include the following topics: biochemistry, cells, genetics, nucleic acids, proteins, evolution, ecology and evolution, ecology and conservation, and human health physiology. This course includes a multi-disciplinary group science project.

Advanced Grade Points: Yes

IB BIOLOGY HL

KISD #: 3436

Grades: 12

1 Credit

Prerequisite:

IB Biology SL

The goal of this course is to help students gain an appreciation of science as a process and provide them with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. This second year of biology includes extensions of the Biology SL topics with the addition of the following: defense against infectious diseases, human reproduction, nerves, muscles, movement, excretion, and plant science. The course consists of lecture, teacher-designed labs and other types of experimental learning. This course includes a multi-disciplinary group science project.

Advanced Grade Points: Yes

CHEMISTRY

KISD #: 0431

Grades: 9-12

1 Credit

Prerequisite:

None

This course is designed to acquaint the student with the concepts and processes of chemistry. This laboratory program focuses on chemistry concepts and how they apply to the physical world. The student builds an understanding of chemistry through exploration, demonstration, questioning, and application of the concepts through a variety of inquiry-based activities. All-important concepts are covered in several chapters in a spiraling process that allows students to see concepts in a variety of contexts and in ways that are meaningful to the student.

CHEMISTRY PRE-AP

KISD #: 0433Q

Grades: 9-12

1 Credit

Prerequisite:

Algebra 1 and Meets district guidelines

This course is designed for the student with a high interest in science and/or who intends to take further science courses. It is designed to acquaint the student with the concepts and processes of chemistry and is a modification and expansion of the regular class. Experimentation, individual student inquiry and mathematical applications are an integral part of the course. The level of instruction/curriculum will focus on preparing the student for advanced placement courses.

Advanced Grade Points: Yes

CHEMISTRY PRE-AP/GT

KISD #: 0437

Grades: 9-12

1 Credit

Prerequisite: Algebra 1 and Meets district guidelines

This course is designed for the student with a high interest in science and/or who intends to take further science courses. It is designed to acquaint the student with the concepts and processes of chemistry and is a modification and expansion of the regular class. Experimentation, individual student inquiry and mathematical applications are an integral part of the course. The level of instruction/curriculum will focus on preparing the student for advanced placement courses. This

course focuses on strategies to support abstract reasoning problem solving, research skills and a students' active involvement in the learning process. GT services are provided through the Pre-AP classes.

Advanced Grade Points: Yes

Chemistry Pre IP

KISD#:

Grades:

Prerequisite: None

PIP Chemistry is a laboratory centered course that investigates the composition and behavior of matter. Students work in small groups and individually to review accepted principles of chemistry, to experiment and observe real data and to apply their knowledge and skills to problem solving. Skills emphasized are reading and writing scientific, technical information; collecting and analyzing data; note-taking and time management. The expectations of the course are to prepare students for participation in the IB Group 4 courses as well as chemistry at the collegiate level, meet the state curriculum objectives for the course, and create and awareness and appreciation of the fact that "chemistry is everywhere".

CHEMISTRY ADVANCED PLACEMENT

KISD #: 0435

Grades: 10-12

1 Credit

Prerequisite: Chemistry 1 and Physics 1 and Algebra 2 preferred. (With approval of principal, Physics 1 may be taken concurrently)

Chemistry AP is an in-depth study of the principles set forth in Chemistry 1. This course follows the Advanced Placement recommended scope and sequence. Topics include: structure and properties of atoms and molecules, states of matter and descriptive chemistry. Lab exercises emphasize the mole concept, gravimetric and volumetric quantitative analysis, qualitative analysis and organic chemistry. Experimentation, individual student inquiry and mathematical problem solving are an integral part of the course.

Advanced Grade Points: Yes

CHEMISTRY DUAL CREDIT

KISD #: NEW

Grades: 11-12

1 Credit

Prerequisite: Meets district guidelines

This course is designed for students with a high interest in science. This course is a preparatory course for student who have never had chemistry and covers the metric system, atoms and

elements, bonding, solids, liquids, gasses, stoichiometry, solutions, reactivity and acids and bases.

Advanced Grade Points: yes

Dual Credit Correlation:

IB CHEMISTRY SL

KISD #: 3432

Grades: 11 or 12

1 Credit

Prerequisite: Pre-IP Chemistry

This course, designed for students with a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems, provides opportunities for scientific study and creativity within global context which will stimulate and challenge students. The course will contribute to the students' ability to analyze, evaluate, and synthesize scientific information and help develop the students' ability to think clearly and express their ideas orally and in writing

with clarity and logic. The course includes the following topics of study: stoichiometry, atomic theory and atomic models, periodicity, bonding, states of matter, solutions, energetics, kinetics, equilibrium, acids and bases, oxidation and reduction, organic chemistry, environmental chemistry, and fuels and energy. This course encourages an understanding of the relationships between scientific disciplines and the overarching nature of the scientific method. In an effort to develop students' experimental and investigative skills, 40% of a student's classroom time will be devoted to performing laboratory activities. A multi-disciplinary group project is a component of this class.

Advanced Grade Points: Yes

IB CHEMISTRY HL

KISD #: 3433

Grades: 12

1 Credit

Prerequisite: IB Chemistry SL

This course, designed for students with a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems, provides opportunities for scientific study and creativity within global context which will stimulate and challenge students. The course will contribute to the students' ability to analyze, evaluate, and synthesize scientific information and help develop the students' ability to think clearly and express their ideas orally and in writing with clarity and logic. The course reviews the topics of study covered in SL as a core: stoichiometry, atomic theory and atomic models, periodicity, bonding, states of matter, solutions, energetic, kinetics, equilibrium, acids and bases, oxidation and reduction, organic chemistry--but also continues with the topics in greater depth. HL students are expected to study additional topics and to study extension material of a more demanding nature than SL. This course encourages an understanding of the relationships between scientific disciplines and the overarching nature of the scientific method. In an effort to develop students' experimental and investigative skills, 40% of a student's classroom time will be devoted to performing laboratory activities and independent investigations. A multi-disciplinary group project is also a component of this class.

Advanced Grade Points: Yes

PHYSICS

KISD #: 0441

Grades: 9-12

1 Credit

Prerequisite: Geometry preferred

Physics is the study of the interactions of matter and energy. This laboratory program focuses on physics concepts and how they apply to the physical world. The student builds understanding through exploration, demonstration, questioning, and application of the concepts through a variety of inquiry-based activities. Topics include: mechanics, properties of matter, heat, sound and light, electricity and magnetism, and atomic and nuclear Physics. Mathematical applications are included throughout the course.

PHYSICS PIP

KISD #: 3474

Grades: 10-11

1 Credit

Prerequisite: Acceptance into IB Program

PIP Physics is a comprehensive study in classical mechanics and electromagnetism. Topics include Newton's Laws, Kinematics, Vectors, Circular motion, Gravitation, Work-Energy, Momentum, Electrostatics, Magnetism, Ohm's Law, DC circuitry, Light, Sound and Nuclear physics. PIP physics provides a foundation for those students wanting to take IB Physics SL. Students should have strong algebra skills in order to be successful in this rigorous course.

Advanced Grade Points: Yes

ADVANCED PLACEMENT PHYSICS 1

KISD #: 0445

Grades: 10-12

1 Credit

Prerequisite: Algebra 1 and 2 (Prior to or concurrent enrollment)

This course is designed for the student with a high interest in science and/or who intends to take further science courses. AP Physics 1 is algebra-based and is the equivalent of a first-semester college course in Algebra-based physics. It is designed to be taught over a full academic year to enable AP students to develop deep understanding of the content and to focus on applying their knowledge through inquiry labs. The full year allows time for inclusion of physics content specified by state standards. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It also introduces electric circuits.

Advanced Grade Points: Yes

ADVANCED PLACEMENT PHYSICS 2

KISD #: 0448

Grades: 11-12

1 Credit

Prerequisite: AP Physics 1, Algebra 2 and Pre-Calculus (or concurrent enrollment)

This course is designed for the student with a high interest in science and/or who intends to take further science courses. AP Physics 2 is algebra-based and is the equivalent of a second-semester college course in Algebra-based physics. It is designed to be taught over a full academic year to enable AP students to develop deep understanding of the content and to focus on applying their knowledge through inquiry labs. The full year allows time for inclusion of physics content specified by state standards. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; atomic and nuclear physics.

Advanced Grade Points: Yes

PHYSICS DUAL CREDIT

KISD #: 0441DC

Grades: 11-12

1 Credit

Prerequisite: Meets district guidelines

This course is designed for students with a high interest in science. This course covers the fundamental principles of physics, mechanics, thermodynamics, Newton's Laws of Motion, gravitation and other forces and has an emphasis on problem solving. (Students cannot receive credit for both AP Physics 1 and DC Physics)

Advanced Grade Points: yes

Dual Credit Correlation: PHYS 1401

IB PHYSICS SL

KISD #: 3434

Grades: 11 or 12

1 Credit

Prerequisite: Pre IP Physics

Physics is the study of the relationship between matter and energy. The student will be introduced to fundamental concepts in the areas of mechanics, wave actions, heat, electricity, magnetism, and nuclear phenomena. Observations of the laws of force and motion, the nature of light, wave phenomena, and properties of electricity and magnetism are integral components of the course. Students will develop experimental and investigative scientific skills, including an ability to ask physical questions and to obtain solutions to those questions by use of physical intuition, experimental investigation, and formal logic. Awareness will be gained of the connections of physics to other disciplines and to societal issues. Knowledge of algebra and basic trigonometry is required for the course. Basic ideas of calculus may be introduced in the study of some concepts. In an effort to develop students' experimental and investigative skills, at least 40% of a student's classroom time will be devoted to performing laboratory and inquiry activities that cover a range of topics and skills including a multi-disciplinary group science project. Laboratory investigations will help the student develop an ability to analyze, evaluate, and synthesize scientific information. **It is strongly recommended that students take a second year of physics before attempting the IB Physics SL exam.**

Advanced Grade Points: Yes

IB PHYSICS HL

KISD #: 3438

Grades: 12

1 Credit

Prerequisite: IB Physics SL

In this second year of the study of physics, the student will encounter further extensions of the fundamental concepts in the areas of mechanics, wave actions, heat, electricity, magnetism, and nuclear phenomena. Observations of the laws of force and motion, the nature of light, wave phenomena, and properties of electricity and magnetism are integral components of the course. In addition, the student will study topics on relativity, optics, and astrophysics. Students will develop experimental and investigative scientific skills, including an ability to ask physical questions and to obtain solutions to those questions by use of physical intuition, experimental investigation, and formal logic. Awareness will be gained of the connections of physics to other disciplines and to societal issues. Knowledge of algebra and basic trigonometry is required for the course. Basic ideas of calculus may be introduced in the study of some concepts. In an effort to develop students' experimental and investigative skills, at least 40% of a student's classroom time will be devoted to performing laboratory and inquiry activities that cover a range of topics and skills including a multi-disciplinary group science project. Laboratory investigations will help the student develop an ability to analyze, evaluate, and synthesize scientific information.

Advanced Grade Points: Yes

ASTRONOMY

KISD #: 0455

Grades: 10-12

1 Credit

Prerequisite: one unit HS Science

In Astronomy, students conduct laboratory and field investigations, use scientific methods, and make informed decisions using critical thinking and scientific problem solving. Students study the following topics: astronomy in civilization, patterns and objects in the sky, our place in space, the moon, reasons for the seasons, planets, the sun, stars, galaxies, cosmology, and space exploration. Students who successfully complete Astronomy will acquire knowledge within a conceptual framework, conduct observations of the sky, work collaboratively, and develop critical-thinking skills.

EARTH SPACE SCIENCE

KISD #: 0454

Grades: 11-12

1 Credit

Prerequisite: Biology 1

Earth and Space Science, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that are designed to develop an understanding of the Earth's system in space and time. Concepts included are the complex and dynamic history of the earth and the advances in technologies that help further that understanding, the geosphere and complex subsystems linking it to the Earth's surface, and the fluid earth's influences on climate and its implications to life on earth.

AQUATIC SCIENCE

KISD #: 0451

Grades: 11-12

1 Credit

Prerequisite: Biology 1

In Aquatic Science, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include the following: components of an aquatic ecosystem; relationships among aquatic habitats and ecosystems; roles of cycles within an aquatic environment; adaptations of aquatic organisms; changes within aquatic environments; geological phenomena and fluid dynamics effects; and origin and use of water in a watershed.

ENVIRONMENTAL SYSTEMS

KISD #: 0457

Grades: 11-12

1 Credit

Prerequisite: Biology 1 or 1 unit of high school Physical Science

In Environmental Systems, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include the following: biotic and abiotic factors in habitats, ecosystems and biomes, interrelationships among resources and an environmental system, sources and flow of energy through an environmental system, relationship between carrying capacity and changes in populations and ecosystems, and changes in environments.

ENVIRONMENTAL SCIENCE ADVANCED PLACEMENT

KISD #: 0465

Grades: 11-12

1 Credit

Prerequisite: Biology 1 or Chemistry 1 preferred and meets district guidelines

This course is designed to be the equivalent of an introductory college course in environmental science. The goal of the course is to provide students with the scientific principles, concepts, and methodologies required to understand the inter-relationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. It is an interdisciplinary course with a strong laboratory component.

ANATOMY AND PHYSIOLOGY

KISD #: 927118 **TX #:** 13022400
Grades: 11-12 **1.0 Credit/Science Credit Option**
Prerequisite: **Biology I and Chemistry I**

Students will conduct laboratory investigations/fieldwork, use scientific methods during investigations, and make informed decisions using critical thinking and problem solving. Topics will be presented through an integration of biology, chemistry, and physics. Students will study the structures and functions of the human body and body systems and will investigate the body's responses to forces, maintenance of homeostasis, electrical interactions, transport systems, and energy systems. Students will also analyze the relationship between anatomical structures and physiological functions of the human systems. This course is also listed in the Science Section of the Guidance Handbook.

Advanced Grade Points: Yes

ANATOMY AND PHYSIOLOGY DUAL CREDIT

KISD #: 9271DC18 **TX #:** 13022400
Grades: 11-12 **1.0 Credit/Science Credit Option**
Prerequisite: **Biology I and Chemistry I**

Students will conduct laboratory investigations/fieldwork, use scientific methods during investigations, and make informed decisions using critical thinking and problem solving to study the structure and function of the human body. Emphasis will be given to the study of cells and tissues and anatomical and physiological interrelationships of the integumentary, skeletal, muscular, and nervous systems. Designed primarily for students entering health careers. This course is also listed in the CTE section of the Catalog.

Advanced Grade Points: Yes

Dual Credit Correlation: BIOL 2401

ADVANCED PLANT AND SOIL SCIENCE

KISD #: 907118 **TX #:** 13002500
Grades: 12 **1.0 Credit/4th Science Credit Option**
Prerequisite: **Refer to Pathway Flowchart and Biology, Integrated Physics and Chemistry, Chemistry, or Physics**

Students will study the exploration of principles related to plant production and the management of soils as related to agriculture. Included in the course are experiments, laboratory explorations, and the study of soil and plant relationships that affect the production of food and fiber. This course is also listed in the CTE section of the Catalog.

Advanced Grade Points: Yes

ADVANCED ANIMAL SCIENCE

KISD #: 907018 **TX #:** 13000200
Grades: 11-12 **1.0 Credit/4th Science Credit Option**
Prerequisite: **Biology and Chemistry or Integrated Physics and Chemistry (IPC); Algebra I and Geometry and Small Animal and Equine Science or Livestock Production or Vet Med Applications**

Students will gain an advanced understanding of animal science. Included in the course are experiments, laboratory explorations, and the study of reproduction, breeding, genetics, anatomy, physiology, nutrition, health, and the marketing and harvesting of domestic livestock. This course is also listed in the Science section of the Catalog.

Required Fee/Materials: Yes

Advanced Grade Points: Yes

FORENSIC SCIENCE

KISD #: 963518 **TX #:** 13033900
Grades: 11-12 **1.0 Credit/4th Science Credit Option**
Prerequisite: **Law Enforcement I and Biology I and Chemistry I**

Students will apply science to connect a violation of law to a specific criminal, criminal act, or behavior and victim. Students will learn terminology and procedures related to the search and examination of physical evidence in criminal cases as they are performed in a typical crime laboratory. Using scientific methods, students will collect and analyze evidence such as fingerprints, bodily fluids, hairs, fibers, paint, glass, and cartridge cases. Students will also learn the history and the legal aspects as they relate to each discipline of forensic science. This same course is also listed in the CTE section of the Catalog.

Advanced Grade Points: Yes

WORLD GEOGRAPHY

KISD #: 0231

Grades: 9-10

1 Credit

Prerequisite: None

World Geography is the study of the world's peoples, places, and environments, with a focus on world regions. Particular emphasis is placed on students' understanding and applying geographic concepts and skills to their daily lives.

WORLD GEOGRAPHY LIMITED ENGLISH SHELTERED

KISD #: 0231N

Grades: 9-10

1 Credit

Prerequisite: Counselor Approval

World Geography is the study of the world's peoples, places, and environments, with a focus on world regions. Particular emphasis is placed on students' understanding and applying geographic concepts and skills to their daily lives. ESL instructional techniques are used to help students master the essential concepts of the course.

WORLD GEOGRAPHY PRE-AP

KISD #: 0233Q

Grades: 9-10

1 Credit

Prerequisite: None

World Geography is the study of the world's peoples, places, and environments, with a focus on world regions. Particular emphasis is placed on students' understanding and applying geographic concepts and skills to their daily lives. Advanced students are expected to accelerate their learning in this course by developing a broad, conceptual perspective for a more in-depth study of geography.

Advanced Grade Points: Yes

WORLD GEOGRAPHY PRE-AP/GT

KISD #: 0237Q

Grades: 9-10

1 Credit

Prerequisite: Meets district guidelines

World Geography is the study of the world's peoples, places, and environments, with a focus on world regions. Particular emphasis is placed on students' understanding and applying geographic concepts and skills to their daily lives. Advanced students are expected to accelerate their learning in this course by developing a broad, conceptual perspective for a more in-depth study of geography.

Advanced Grade Points: Yes

HUMAN GEOGRAPHY ADVANCED PLACEMENT

KISD #: 0238

Grades: 9-12

1 Credit

Prerequisite: None

AP Human Geography introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the tools and methods that geographers use in their science and practice. Students who enroll in this course are strongly encouraged to take the Advanced Placement Exam in Human Geography.

Advanced Grade Points: Yes

WORLD HISTORY

KISD #: 0221

Grades: 9-10

1 Credit

Prerequisite: None

World History is the study of the historical development of people, places, and patterns of life from ancient times to the present. Students will use skills of historical and geographical analysis to explore the early history of the world.

WORLD HISTORY LIMITED ENGLISH SHELTERED

KISD #: 0221N

Grades: 9-10

1 Credit

Prerequisite: Counselor Approval

World History is the study of the historical development of people, places, and patterns of life from ancient times to the present. Students will use skills of historical and geographical analysis to explore the early history of the world. ESL instructional techniques are used to help students master the essential concepts of the course.

WORLD HISTORY ADVANCED PLACEMENT

KISD #: 0224

Grades: 9-10

1 Credit

Prerequisite: None

As an Advanced Placement course, this full-year introductory college course, is designed to provide students instruction beyond a general understanding of world history. They use analytic skills and write extensively on the major themes of history from the foundations of civilization to the present day. Students will investigate the content to make connections among historical developments in different times and places encompassing the five major geographical regions. Students enrolled in this course are strongly encouraged to take the College Board Advanced Placement Exam in World History.

Advanced Grade Points: Yes

US HISTORY

KISD #: 0211

Grades: 10-12 1 Credit

Prerequisite: None

United States History Since 1877 is the study of the historical development of American ideas and institutions from the Age of Exploration to the present. Students will learn fundamental concepts in civics, economics, and geography and obtain a basic knowledge of American culture through a chronological survey of major issues, movements, people, and events in United States. **This course requires an EOC exam.**

US HISTORY LIMITED ENGLISH SHELTERED

KISD #: 0211N

Grades: 10-12 1 Credit

Prerequisite: Counselor Approval

United States History Since 1877 is the study of the historical development of American ideas and institutions from the Age of Exploration to the present. Students will learn fundamental concepts in civics, economics, and geography and obtain a basic knowledge of American culture through a chronological survey of major issues, movements, people, and events in United States. ESL instructional techniques are used to help students master the essential concepts of the course. **This course requires an EOC exam.**

US HISTORY ADVANCED PLACEMENT

KISD #: 0215

Grades: 10-12 1 Credit

Prerequisite: Meets district guidelines

As an Advanced Placement course, this full-year introductory college course is designed to have students study the historical development of American ideas and institutions from approximately 1491 to the present. AP students will learn how to assess historical materials and to weigh the evidence and interpretations presented in historical scholarship. Students will write extensively to perfect their essay writing and critical thinking skills. **All students take the EOC test** and are encouraged to take the College Board Advanced Placement Examination.

Advanced Grade Points: Yes

US HISTORY DUAL CREDIT

KISD #: 0221DC

Grades: 10-12 1 Credit

Prerequisite: None

A survey of U.S. history from Pre-Contact Societies to the present. Themes to be developed include westward expansion and globalization, Native Americans, industrialization, immigration, imperialism, political and social developments, the wars of the 220th century and the changing status and conditions of women and minorities.

Advanced Grade Points: Yes

Dual Credit Correlation: HIST 1301 and 1302

IB HISTORY OF THE AMERICAS

KISD #: 3410, 3412

Grades: 11 and 12 1 Credit

Prerequisite: PreAP World Geography and AP World History

The International Baccalaureate History of the Americas is a two-year course of study that provides students with an intensive analysis of the political, economic, social, intellectual, diplomatic, and cultural development of early American history, as well as a transition into the 20th century topics. The course emphasizes a variety of themes and approaches to history and encourages the ability to read advanced-level historical work analytically and evaluate historical evidence and interpretations in arriving at conclusions.

***This course replaces the U.S. History requirement for graduation.**

Advanced Grade Points: Yes

GOVERNMENT

KISD #: 0241

Grades: 11-12 0.5 Credit

Prerequisite: U.S. History

United States Government will provide students with knowledge of the American government system that will enable them to participate effectively in civic life in America. Students will examine fundamental constitutional principles; the organization of government at the federal, state, and local level; the rights and responsibilities of citizenship; the policy-making process; political parties and elections; comparative government and foreign policy; and the American economic system.

GOVERNMENT LIMITED ENGLISH SHELTERED

KISD #: 0241ESL

Grades: 11-12 .5 Credit

Prerequisite: Counselor Approval

United States Government will provide students with knowledge of the American government system that will enable them to participate effectively in civic life in America. Students will examine fundamental constitutional principles; the organization of government at the federal, state, and local level; the rights and responsibilities of citizenship; the policy-making process; political parties and elections; comparative government and foreign policy; and the American economic system. ESL instructional techniques are used to help students master the essential concepts of the course.

GOVERNMENT ADVANCED PLACEMENT

KISD #: 0245

Grades: 11-12 .5 Credit

Prerequisite: Meet district guidelines

As an Advanced Placement course, this half-year introductory college course is designed to provide focus on the various institutions, groups, beliefs, and ideas that constitute United States politics. Students will gain an analytical perspective on government and politics in the United States both by studying the general concepts used to interpret U. S. politics and by analyzing specific examples. Students will learn how to analyze and interpret basic data relevant to U. S. government and politics and will write extensively to perfect their essay writing and critical thinking skills. All students are encouraged to take the College Board Advanced Placement Examination.

Advanced Grade Points: Yes

GOVERNMENT DUAL CREDIT

KISD #: 0241DC

Grades: 11-12 .5 Credit

Prerequisite: Meet district guidelines

Origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights.

Advanced Grade Points: Yes

Dual Credit Correlation: GOVT 2305

ECONOMICS WITH EMPHASIS ON THE FREE ENTERPRISE SYSTEM AND ITS BENEFITS

KISD #: 0251

Grades: 11-12 .5 Credit

Prerequisite: U.S. History

Economics is a semester course that deals with the way that individuals and societies, particularly the United States, have chosen to use scarce resources for the production of alternative goods and how these resources are distributed among the various peoples and groups in society. The course emphasizes the economic principles upon which the free enterprise system is based.

ECONOMICS WITH EMPHASIS ON THE FREE ENTERPRISE SYSTEM AND ITS BENEFITS LIMITED ENGLISH SHELTERED

KISD #: 0251ESL

Grades: 11-12 .5 Credit

Prerequisite: U.S. History

Economics is a semester course that deals with the way that individuals and societies, particularly the United States, have chosen to use scarce resources for the production of alternative goods and how these resources are distributed among the various peoples and groups in society. The course emphasizes the economic principles upon which the free enterprise system is based. ESL instructional techniques are used to help students master the essential concepts of the course.

ECONOMICS WITH EMPHASIS ON THE FREE ENTERPRISE SYSTEM AND ITS BENEFITS – MICRO ADVANCED PLACEMENT

KISD #: 0255

Grades: 11-12 .5 Credit

Prerequisite: U.S. History

As an Advanced Placement, elective course, this half-year introductory college course is designed to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places emphasis on the nature and functions of product markets and includes the role of government in the economy. All students are encouraged to take the College Board Advanced Placement Examination.

Advanced Grade Points: Yes

ECONOMICS WITH EMPHASIS ON THE FREE ENTERPRISE SYSTEM AND ITS BENEFITS – MACRO ADVANCED PLACEMENT

KISD #: 0256

Grades: 11-12 .5 Credit

Prerequisite: U.S. History

As an Advanced Placement, elective course, this half-year introductory college course is designed to give students a thorough understanding of the principles of economics that apply to the economic system as a whole. The course places particular emphasis on the study of national income and price-level determination, and also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. All students are encouraged to take the College Board Advanced Placement Examination.

Advanced Grade Points: Yes

ECONOMICS DUAL CREDIT

KISD #: 0251DC

Grades: 11-12 .5 Credit

Prerequisite: U.S. History

A study of macroeconomic principles. Analysis of the market economy; national income accounting; income determination; stabilization policies: monetary and fiscal policy; money and banking; demand and supply-side economics; monetarist vs. Keynesian view; inflation theories such as distinction between demand-pull and cost-push theories, Phillips curve analysis; labor market and determination of unemployment rate.

Advanced Grade Points: Yes

Dual Credit Correlation: ECON 2301

PSYCHOLOGY

KISD #: 0260

Grades: 10-12 .5 Credit

Prerequisite: None

Psychology is an elective course where students learn about principles of learning, types of personalities, understanding human behavior, patterns of behavior, emotional and behavioral adjustments, group influences, social psychology.

PSYCHOLOGY ADVANCED PLACEMENT

KISD #: 0262

Grades: 10-12 .5 Credit

Prerequisite: None

As an Advanced Placement, elective course, this half-year introductory college course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and animals. Students are exposed to psychological facts, principles, and phenomena associated with each of the major subfields of psychology. They also learn about the ethics and methods psychologists use in their science and practice and write extensively to perfect their essay writing and critical thinking skills. All students are encouraged to take the College Board Advanced Placement Examination.

Advanced Grade Points: Yes

PSYCHOLOGY DUAL CREDIT

KISD #: 0260DC

Grades: 10-12 .5 Credit

Prerequisite: None

This course is a survey of the essential subject areas, major theories and approaches to the scientific study of behavior and mental processes.

Advanced Grade Points: Yes

Dual Credit Correlation: PSYC 2301

SOCIOLOGY

KISD #: 0261

Grades: 10-12 .5 Credit

Prerequisite: None

Sociology is an elective course where students study social behavior and organization of human society. This course will describe the development of the field as a social science by identifying methods and strategies of research leading to an understanding of how the individual relates to society and the ever changing world, the role of culture and social groups.

SOCIOLOGY DUAL CREDIT

KISD #: 0261DC

Grades: 10-12 .5 Credit

Prerequisite: U.S. History

This course is an introduction to the basic elements of society. In looking at human behavior, this course includes an introduction to dynamics of society, culture, social groups, social institutions, socialization, social processes and social structure.

Advanced Grade Points: Yes

Dual Credit Correlation: SOCI 1301

EUROPEAN HISTORY ADVANCED PLACEMENT

KISD #: 0226

Grades: 11-12 1 Credit

Prerequisite: None

As an Advanced Placement course, this full-year introductory college course focuses on developing students' understanding of European history from approximately 1450 to the present. The course has students investigate the content of European history for significant events, individuals, development and processes in order to make connections among historical developments in different times and places. All students are encouraged to take the College Board Advanced Placement Examination.

Advanced Grade Points: Yes

PERSONAL FINANCIAL LITERACY

KISD #: 0270

Grades: 9-12 .5 Credit

Prerequisite: None

Personal Financial Literacy is an elective, one-semester course that provides students with the knowledge and skills to make informed financial decisions and understand personal financial responsibility. This is an interactive course that includes topics such as credit card debt, renting and buying a home, starting a small business, investment options, banking, insurance and methods for paying for college.

MEXICAN-AMERICAN STUDIES

KISD #: 0269

Grades: 9-12 1 Credit

Prerequisite: None

Mexican American Studies is an elective, full-year course where students learn about the history and cultural contributions of Mexican Americans. Students explore history and culture from an interdisciplinary perspective. The course emphasizes developments in the twentieth and twenty-first centuries, but students will also engage with developments prior to the twentieth century.

SPECIAL TOPICS IN SOCIAL STUDIES: AFRICAN-AMERICAN STUDIES

KISD #: 0266

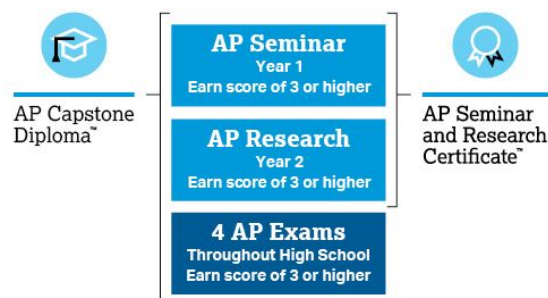
Grades: 10-12 .5 Credit

Prerequisite: None

Special Topics in Social Studies: African-American Studies is an elective, one-semester course where students learn about the history and cultural contributions of African-Americans. Students are provided the opportunity to develop a greater understanding of various historical and current topics and the changing economic and social impacts of African Americans on the national culture and conscience.

AP CAPSTONE DIPLOMA

AP Capstone™ is a College Board program that equips students with the independent research, collaborative teamwork, and communication skills that are increasingly valued by colleges. AP Capstone comprises two AP courses—AP Seminar and AP Research—and is designed to complement and enhance the discipline-specific study in other AP courses. The AP Capstone Diploma is granted to students who earn scores of **3 or higher in AP Seminar and AP Research and on 4 additional AP Exams of their choosing**. The AP Seminar and Research Certificate is granted to students who earn scores of 3 or higher in both AP Seminar and AP Research.



AP CAPSTONE SEMINAR

Grades: 10-12

1 Credit

Prerequisite:

Meets District Guidelines

In AP Capstone, students investigate real-world issues from multiple perspectives, gathering and analyzing information from various sources in order to develop credible and valid evidence-based arguments.

Advanced Grade Points: Yes

AP CAPSTONE RESEARCH

Grades: 11-12

1 Credit

Prerequisite:

Meets District Guidelines

In AP Research, students cultivate the skills and discipline necessary to conduct independent research in order to produce and defend a scholarly academic thesis. Students will take the AP Seminar course pre to AP Research. Students who earn scores of 3 or higher on the AP Seminar and AP Research exams and on four additional AP exams of their choosing will receive the AP Capstone diploma. This signifies outstanding academic achievement and attainment of college-level academics and research skills. Alternately, the AP Seminar and Research Certificate, signifying attainment of college-level academic and research skills, is awarded for scores of 3 or higher on the AP Seminar and AP Research exams only.

Advanced Grade Points: Yes

International Baccalaureate Program

The International Baccalaureate (IB) Program is an internationally recognized curriculum that offers 11th and 12th grade students an opportunity to earn the IB diploma. Students complete and test in six IB subjects; write an extended essay of independent research guided by a faculty mentor, complete 150 hours of creative, action, and service activities (CAS); and participate in a critical thinking course called Theory of Knowledge. This advanced, comprehensive program of study offers an integrated approach to learning across the disciplines with an emphasis on meeting the challenges of living and working in a global, technological society. The State of Texas awards a minimum of 24 credit hours to students who attend any public Texas University who earn the IB Diploma with a score of 24 points or higher. Students must complete an application and interview before being accepted into the program.

THEORY OF KNOWLEDGE

KISD #: 3468

Grades: 11 and 12 **1 Credit**

Prerequisite: IB Candidates Only

With its position at the center of the International Baccalaureate hexagon suggesting its connective possibilities, the Theory of Knowledge class offers students the opportunity to reflect on themselves as “knowers” in the act of knowing. Six different areas of knowledge, some of which are intensively pursued in other parts of the curriculum, become the subjects of critical inquiry as “knowers,” singly and in community, explore what it means to know in each area and how those ways bump into or reinforce each other. As they inquire, students cultivate precision in their recognition of the difficulties that attend their ways of knowing: the nature and limit of perception, the trickery and truthfulness of emotions, the seduction and elusiveness of language, and the attraction of reason. Sorting out this tangle of possibilities is the critical challenge of those who desire to thrive in the Theory of Knowledge class. Practiced with the proper curiosity and generosity, thus wrestling with the problems of knowledge will take students from text to text, time to time, and culture to culture, promoting self-understanding and rich appreciation of difference and variety. The result will be a subtle sophistication of intellect.

GROUP 1: STUDY IN LANGUAGES AND LITERATURE

IB ENGLISH 3 AND 4 HL

KISD #: 3400 / 3402

Grades: 11 and 12 **1 Credit**

Prerequisite: Pre-IP English 1 and 2 or acceptance into the IB Program

This pair of courses focuses on the rigorous academic demands of an International Baccalaureate Higher Level course. This, two-year, intensive study of English language and literature develops students’ analytical abilities and creative powers of expression, both in oral and written communications. It encourages them to be original, independent, critical and logical thinkers, and to appreciate literature as an art form. Students learn techniques to analyze literary passages, drawn from prose and poetry, representative of a variety of historical literary periods. Various genres, styles, themes and contexts are examined through the analysis of grouped works. Students explore the ongoing forces of

human creativity, artistic ingenuity, and cultural diversity that shape and develop literature. Students engage in daily formal and/or informal writing tasks including free writing, response journals, dialectical journals, essays, abstracts, critiques and commentaries. They practice public speaking, engaging in the critical and constructive exchange of ideas through oral presentations, class discussions, panel discussions, as well as informal and/or informal debates. This course will culminate with the successful completion of the Language A1 exam.

GROUP 1: LANGUAGE ACQUISITION

IB FRENCH SL/HL

KISD #: 3440/3441

Grades: 11 and 12 **1 Credit**

Prerequisite: French 3 Pre-IP

The primary objective for the study of a language other than English and of its culture is to provide students with a rich preparation for the future. Language B French study incorporates the development of communications skills such as: listening, speaking, reading, and writing. Students will continue to develop new communication skills by using knowledge of the oral and written language, technology, and content from other subject areas. Students of Language B French will use the new language to communicate proficiently, to acquire and provide information, to express feelings and opinions, and to consider various points of view when solving problems in a global society. Language B French offers students an enriched, advanced study of language, literature, and culture. The students will be able to review independently and through group discussions works of various authors in the original language. As active participants, the students will expand their learned skills across the curriculum and apply new concepts in real-life situations. Students may choose to take the Standard Level exam at the end of the junior year or take another year of French and then choose either the Standard Level or Higher Level exam.

IB SPANISH SL/HL

KISD #: 3450/3451

Grades: 11 and 12 **1 Credit**

Prerequisite: Spanish 3 Pre-IP or Acceptance into IB program

The primary objective for the study of a language other than English and of its culture is to provide students with a rich preparation for the future. Spanish study incorporates the development of communications skills such as: listening, speaking, reading, and writing. Students will continue to develop new communication skills by using knowledge of the oral and written language, technology, and content from other subject areas. Students of Language B French will use the new language to communicate proficiently, to acquire and provide information, to express feelings and opinions, and to consider various points of view when solving problems in a global society. Spanish offers students an enriched, advanced study of language, literature, and culture. The students will be able to review independently and through group discussions works of various authors in the original language. As active participants, the students will expand their learned skills across the curriculum and apply new concepts in real-life situations. Students

may choose to take the Standard Level exam at the end of the junior year or take another year of French and then choose either the Standard Level or Higher Level exam.

GROUP 3: INDIVIDUALS AND SOCIETIES

IB HISTORY OF THE AMERICAS

KISD #: 3410/3412

Grades: 11 and 12 **1 Credit**

Prerequisite: Pre-AP World Geography and AP World History recommended

The history component of the IB Curriculum is structured as a two-year program taught at the Higher Level. The regional component will cover the History of the Americas with the emphasis in the 11th grade year on the history of the United States from the colonial period to the present and the impact of the United States on surrounding cultures. In the 12th grade, the history of Canada and Latin America will be covered along with the following Twentieth Century topics: the causes and effects of war, the Cold War, and the rise and rule of single party states. This course replaces the U.S. History requirement for graduation.

GROUP 4: SCIENCES

IB BIOLOGY SL

KISD #: 3430

Grades: 11 and 12 **1 Credit**

Prerequisite: Pre-AP/GT or Pre-IP Biology and Pre-AP/GT or Pre-IP Chemistry

The primary goal of this course is to help students gain an appreciation of science as a process and provide them with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. The course would consist of lecture, teacher-designed labs, student-designed labs and other types of experimental learning. The material of study for Biology (SL) will include the following topics: biochemistry, cells, genetics, nucleic acids, proteins, evolution, ecology and evolution, ecology and conservation, and human health physiology. The course would consist of lecture, teacher designed labs, student-designed labs and other types of experimental learning. This course includes a multi-disciplinary group science project.

IB BIOLOGY HL

KISD #: 3430

Grades: 11 and 12 **1 Credit**

Prerequisite: IB Biology SL

The goal of this course is to help students gain an appreciation of science as a process and provide them with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. This second year of biology includes extensions of the Biology SL topics with the addition of the following: defense against infectious diseases, human reproduction, nerves, muscles, movement, excretion, and plant science. The course consists of lecture, teacher-designed labs and other types of experimental learning. This course includes a multi-disciplinary group science project.

IB CHEMISTRY SL

KISD #: 3432

Grades: 11 or 12

1 Credit

Prerequisite: Pre-IP or Pre-AP Biology and Pre-IP or Pre-AP Chemistry

This course, designed for students with a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems, provides opportunities for scientific study and creativity within global context which will stimulate and challenge students. The course will contribute to the students' ability to analyze, evaluate, and synthesize scientific information and help develop the students' ability to think clearly and express their ideas orally and in writing with clarity and logic. The course includes the following topics of study: stoichiometry, atomic theory and atomic models, periodicity, bonding, states of matter, solutions, energetics, kinetics, equilibrium, acids and bases, oxidation and reduction, organic chemistry, environmental chemistry, and fuels and energy. This course encourages an understanding of the relationships between scientific disciplines and the overarching nature of the scientific method. In an effort to develop students' experimental and investigative skills, 40% of a student's classroom time will be devoted to performing laboratory activities. A multi-disciplinary group project is a component of this class.

IB CHEMISTRY HL

KISD #: 3433

Grades: 12

1 Credit

Prerequisite: IB Chemistry SL

This course, designed for students with a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems, provides opportunities for scientific study and creativity within global context which will stimulate and challenge students. The course will contribute to the students' ability to analyze, evaluate, and synthesize scientific information and help develop the students' ability to think clearly and express their ideas orally and in writing with clarity and logic. The course reviews the topics of study covered in SL as a core stoichiometry, atomic theory and atomic models, periodicity, bonding, states of matter, solutions, energetic, kinetics, equilibrium, acids and bases, oxidation and reduction, organic chemistry--but also continues with the topics in greater depth. HL students are expected to study additional topics and to study extension material of a more demanding nature than SL. This course encourages an understanding of the relationships between scientific disciplines and the overarching nature of the scientific method. In an effort to develop students' experimental and investigative skills, 40% of a student's classroom time will be devoted to performing laboratory activities and independent investigations. A multi-disciplinary group project is also a component of this class.

IB PHYSICS SL 1

KISD #: 3434

Grades: 11 or 12

Prerequisite:

1 Credit

Pre-AP/GT or PIP Biology/Chemistry
and PIP Chemistry or Pre-AP/GT or
PIP Physics

PIB Physics is a comprehensive study in classical mechanics and electromagnetism. Topics include Newton's Laws, Kinematics, Vectors, Circular motion, Gravitation, Work-Energy, Momentum, Electrostatics, Magnetism, Ohm's Law, DC circuitry, Light, Sound and Nuclear physics. PIB physics provides a foundation for those students wanting to take IB Physics SL. Students should have strong algebra skills in order to be successful in this rigorous course.

IB PHYSICS HL

KISD #: 3438

Grades: 12

Prerequisite:

1 Credit

IB Physics SL

In this second year of the study of physics, the student will encounter further extensions of the fundamental concepts in the areas of mechanics, wave actions, heat, electricity, magnetism, and nuclear phenomena. Observations of the laws of force and motion, the nature of light, wave phenomena, and properties of electricity and magnetism are integral components of the course. In addition, the student will study topics on relativity, optics, and astrophysics. Students will develop experimental and investigative scientific skills, including an ability to ask physical questions and to obtain solutions to those questions by use of physical intuition, experimental investigation, and formal logic. Awareness will be gained of the connections of physics to other disciplines and to societal issues. Knowledge of algebra and basic trigonometry is required for the course. Basic ideas of calculus may be introduced in the study of some concepts. In an effort to develop students' experimental and investigative skills, at least 40% of a student's classroom time will be devoted to performing laboratory and inquiry activities that cover a range of topics and skills including a multi-disciplinary group science project. Laboratory explorations will help the student develop an ability to analyze, evaluate, and synthesize scientific information.

IB COMPUTER SCIENCE SL

KISD #: 3426

Grades: 11-12

Prerequisite:

1 Credit

One credit of computer science

IB computer science explores the breadth and depth of computers and technology related issues. Students will be expected to write programs using an object-oriented approach. Students will be able to trace algorithms in Java and be able to evaluate software designs and algorithms written in Java. Time spent on the program independent assessment is an important part of the course and will be utilized to demonstrate mastery of the programming language of the course (Java). The student will:

- Explore the designing, testing, describing and backing up of computer systems.
- Develop logical thinking in designing software and solving logic problems.
- Discuss the design, variations, problems and uses of networked systems.
- Utilize Object Oriented Design in their programs using the Java programming language.
- Discuss the repercussions of shared computer resources, databases, and human interaction with technology.
- Utilize advanced computer science concepts covered include trees, arrays, recursion, Boolean logic and lists.

Required Fee/Materials: Yes

Advanced Grade Points: Yes

Note: Completion of IB Computer Science SL will satisfy one LOTE requirement for graduation.

IB COMPUTER SCIENCE HL

KISD #: 3428

Grades: 11-12

Prerequisite:

2 Credits (1 period)

One credit of computer science

IB computer science explores the breadth and depth of computers and technology related issues. Students will be expected to write programs using an object-oriented approach. Students will be able to trace algorithms in Java and be able to evaluate software designs and algorithms written in Java. Time spent on the program independent assessment is an important part of the course and will be utilized to demonstrate mastery of the programming language of the course (Java). The student will:

- Explore the designing, testing, describing and backing up of computer systems.
- Develop logical thinking in designing software and solving logic problems.
- Discuss the design, variations, problems and uses of networked systems.
- Utilize Object Oriented Design in their programs using the Java programming language.
- Discuss the repercussions of shared computer resources, databases, and human interaction with technology.
- Utilize advanced computer science concepts covered include trees, arrays, recursion, Boolean logic and lists.

Required Fee/Materials: Yes

Advanced Grade Points: Yes

Note: Completion of IB Computer Science Higher Level will satisfy one advanced mathematics requirement and one LOTE requirement for graduation.

GROUP 5: MATHEMATICS

MATHEMATICAL STUDIES SL

KISD #: 3422

Grades: 11/ and or 12 1 Credit

Prerequisite: Algebra 1 and 2, Geometry Pre-AP,
PIP or GT recommended

This is a two-year course taken in the junior and senior years by students planning to include mathematics as a major component of their studies, either as a subject itself or within courses such as physics, engineering, and technology. Students are expected to have a solid foundation in mathematics and be competent in a wide range of analytical and technical skills. This course will review Algebra, Geometry, and Algebra 2. Methods concentrate on the application of theory to real environmental situations. Topics of study include: set and number theory, elementary coordinate geometry, equations and inequalities, functions, (linear, quadratic, piece, polynomial radical, and rational), exponential and logarithmic functions, conic sections, trigonometry, vectors sequences and series, binomial theorem, statistics and probability. Students are required to work independently and develop an investigation mode, which can be applied to other subject areas, to common world occurrences and to topics that relate to the self-interest of students. The course includes a portfolio based on different areas of the syllabus.

MATHEMATICAL STUDIES HL

KISD #: 3424

Grades: 11 and 12 1 Credit

Prerequisite: Pre-AP/GT Geometry, Pre-AP/GT
Algebra 2, Pre-AP/GT Pre-Cal and AP
Calculus BC

This two-year course begins with the study of IB Honors Pre-Calculus in the junior year and AP Calculus BC in the senior year. In choosing this course, students will be expecting to include mathematics as a major component of their university studies, either as a subject in its own right or within courses such as physics, engineering and technology. Others may take this subject because they have a strong interest in mathematics and enjoy meeting its challenges and engaging with its problems. The nature of the subject is such that it focuses on developing important mathematical concepts in a comprehensible, coherent and rigorous way. This is achieved by means of a carefully balanced approach. Students are encouraged to apply their mathematical knowledge to solving problems set in a variety of meaningful contexts. Development of each topic should feature justification and proof of results. Students embarking on this course should expect to develop insight into mathematical form and structure, and should be intellectually equipped to appreciate the links between concepts in different topic areas. They should also be encouraged to develop the skills needed to continue their mathematical growth in other learning environments. The internally assessed component, the portfolio, offers students a framework for developing independence in their mathematical learning through engaging in mathematical investigation and mathematical modeling. Students will be provided with opportunities to take a considered approach to these activities, and to explore different ways of approaching a problem. The portfolio also allows students to work without the time constraints of a

written examination and to develop skills in communicating mathematical ideas. This course is a demanding one, requiring students to study a broad range of mathematical topics through a number of different approaches and to varying degrees of depth.

GROUP 6: FINE ARTS

IB ART DESIGN SL/HL

KISD #: 3466/ 3467/ 3465

Grades: 11/ and or 12 **1 Credit**

Prerequisite: **One year of art grade 9 or 10**

The IB Art/Design course is designed to give the students an opportunity to develop and present a personal visual art exhibit and research workbook. They will be expected to incorporate acquired skills, a variety of media and methods, critical thinking, increased awareness of both immediate and global environment, imagination, and creativity. Art history, criticism and aesthetics will be an integral part of the curriculum. The Art/Design program will provide opportunities for development of a portfolio and research workbook, which demonstrate an understanding of technical skills, creativity, visual awareness, studio production, and pursuit of quality. The IB Art/Design Program will provide the student the opportunity to complete the Standard Level or to begin the Higher Level course at the junior level. IB candidates who choose the Standard Level will select from Option A (70% Studio Work and 30% Research Workbooks) or Option B (70% Research Workbooks and 30% Studio Work). The Standard Level may be completed as a junior or senior if at level II in art. Senior students working for the Higher Level Options (70% Studio Work and 30% Research Workbooks) will begin work on the Higher Level as a junior, but must complete another two semesters during their senior year to satisfy necessary hours.

IB THEATRE ARTS SL/HL

KISD #: 3462/3463

Grades: 11 and 12 **1 Credit**

Prerequisite: **One year theatre arts or theatre production in grades 9 or 10**

The IB Theatre Arts program is designed to give the students the opportunity to understand the significance of the art and to develop an appreciation of theatre by creating it and studying it. This program is designed to involve the whole student; body and mind. In addition, students will be provided an opportunity to explore the rich historical, societal, and cultural significance of theatre throughout the world. IB candidates have the option of completing the Standard Level program consisting of the following components: 25% Research Commission, 25% Practical Play Analysis, 25% Performance Skills and Theatre Production, 25% Portfolio. The Higher Level program consists of the following components: 25% Research Commission, 25% Practical Play Analysis, 25% Performance Skills and Theatre Production, 25% Portfolio and Individual Project.

IB MUSIC SL/HL

KISD #: 3460/3461

Grades: 11 and 12

Prerequisite:

1 Credit

One year of band, choir, orchestra or comparable private music instruction in grades 9 or 10

The IB Music program is designed to offer students an opportunity to develop skills of analysis through exposure to a broad range of music styles, with emphasis on western art (classical) music. Students also explore traditional and popular music, culminating in a study of music of two diverse cultures. IB Music provides an opportunity for students to broaden their musical knowledge in preparation for career in music performance, composition, or pedagogy. The Standard Level can be completed as a junior or senior. Higher Level studies are recommended for students considering a music career and require a minimum of three semesters. SL level students are required to complete either a performance or composition unit to satisfy the program requirement. HL students must both perform as a soloist and complete a composition component.

IB WORLD DANCE STUDIES SL/HL

KISD #: 3464/3469

Grades: 11 and 12

Prerequisite:

1 Credit

One year of dance in grades 9 or 10

This course is designed to help students to understand dance as a set of practices with their own histories and theories which integrate physical, intellectual and emotional knowledge; experience dance as an individual and collective exploration of the expressive possibilities of bodily movement; understand and appreciate mastery in various dance styles, traditions, and cultures; understand the forms dance takes in styles, traditions and cultures other than their own; and recognize and use dance to create dialogue among the various traditions and cultures in their school environment, their society and the world at large. IB Dance will provide the student the opportunity to complete the Standard Level or Higher Level. Both levels require 2 years of study (junior and senior year). Both the SL and HL include 3 parts to their IB assessment: Performance (40%), Composition and Analysis (40%), and World Dance Studies (20%). Students are expected to have at least 1 year of coursework in Dance during high school, with 2 years preferred. Formal study outside of the regular school day/during the summer is required by the IBO.

Health

HEALTH

KISD #: 1605

Grades: 9-12

.5 Credit

Prerequisite:

None

This course includes a study of the following topics:

- Wellness
- Nutrition
- Exposure to Effects of the Use of Alcohol, Tobacco and Other Drugs
- Fitness and Exercise
- Consumer Awareness
- Prevention and Treatment of Communicable Diseases, Including Sexually Transmitted Diseases, Chronic and Degenerative Diseases
- Community and Environmental Health
- Community Health Resources
- Stress Management
- Mental Health
- Human Sexuality and Family Living
- Health Careers
- Current Health Issues

During the course of instruction in this class, the textbooks, audiovisual materials, and lectures will include instruction and information concerning human growth and development. These topics are designed to inform and instruct only and not to enforce or diminish the individual's personal or religious attitudes.

HEALTH EDUCATION, LIMITED ENGLISH SHELTERED

KISD #: 1605ESL

Grades: 9-12

.5 Credit

Prerequisite:

None

This course for ESL students includes a study of health topics with an emphasis on the vocabulary and concepts such as:

- Wellness
- Nutrition
- Exposure to Effects of the Use of Alcohol, Tobacco and Other Drugs
- Fitness and Exercise
- Consumer Awareness
- Prevention and Treatment of Communicable Diseases, Including Sexually
- Community Health Resources
- Stress Management
- Mental Health
- Human Sexuality and Family Living
- Health Careers
- Current Health Issues

During the course of instruction in this class, the textbooks, audiovisual materials, and lectures will include instruction and information concerning human growth and development. These topics are designed to inform and instruct only and not to enforce or diminish the individual's personal or religious attitudes.

ADVANCED HEALTH EDUCATION

KISD #: 1606

Grades: 11-12

.5 Credit

Prerequisite:

None

This course is designed for the student with a high interest in the field of human medicine/health sciences. It is designed to acquaint the student with the more detailed aspects of gross anatomy and physiology as well as providing in-depth information concerning various health related careers. It shall include the following:

- Skills that foster individual health
- Use of a systematic approach to acquire health information
- Development of skills that affect the well-being of people collectively

Topics include the following:

- Skeletal
- Muscular
- Neurological
- Internal anatomy

Presentations by professionals in fields of:

- Family medicine
- Physical therapy
- Psychology
- Surgical specialists
- EMTs

Physical Education

PHYSICAL EDUCATION 1A FOUNDATIONS OF PERSONAL FITNESS

KISD #: 1607,1609

Grades: 9-12

.5 to 1 Credit

Prerequisite:

None

Foundations of Personal Fitness represent a new approach in physical education and the concept of personal fitness. The basic purpose of this course is to motivate students to strive for lifetime personal fitness with an emphasis on the health-related components of physical fitness. The knowledge and skills taught in this course include teaching students about the process of becoming fit as well as achieving some degree of fitness within the class. The concept of wellness or striving to reach optimal levels of health is the cornerstone of this course and is exemplified by one of the course objectives- students designing their own personal fitness programs.

PHYSICAL EDUCATION IS, IS2 INDIVIDUAL SPORTS/ TS TEAM SPORTS

KISD #: 1608, 1610

Grades: 9-12

.5 to 1 Credit

Prerequisite:

None

Students in Individual Sports are expected to participate in a wide range of individual sports that can be pursued for a lifetime. The continued development of health-related fitness and the selection of individual sport activities that are enjoyable is a major objective of this course. This course could include, but would not be limited to, the following elements: Archery, Badminton, Physical Fitness, Aerobics, Tennis, Swimming, Golf, Weight Training, Conditioning, Track and Field, Table Tennis, as well as the individual skills necessary to participate in some team sports. Students enrolled in team sports are expected to develop health-related fitness and an appreciation for teamwork and fair play. Like the other high school physical education courses, Team Sports is less concerned with the acquisition of physical fitness during the course than reinforcing the concept of incorporating physical activity into a lifestyle beyond high school. This course could include but would not be limited to the following elements. Basketball, Volleyball, Flag Football, Softball, Soccer, as well as a wide range of individual skills necessary to participate in a variety of physical activities.

BOYS AND GIRLS ATHLETICS

KISD #: 1612, 1613

Grades: 9-12

Maximum of 4 Credits

Prerequisite:

None

Each of the athletes will work out for their sport during their athletic period and also after school. Students can double in two sports at the same time if it can be coordinated with the coaches. The student may earn no more than four units of credit in physical education toward state graduation requirements. There are a number of sports offered for the students in Klein ISD. Athletic Trainer, Baseball, Basketball, Cross Country, Football, Golf, Softball, Soccer, Swimming, Tennis, Track, Volleyball, and Wrestling. Students participating in Athletics will be scheduled into an athletic period. Tryouts and/or off season programs may be a requirement for participation in some sports.

ADVENTURE OUTDOOR EDUCATION

KISD #: 1602A/1602B

Grades: 9-12

.5 to 1 Credit

Prerequisite:

None

Students enrolled in Adventure/Outdoor Education are expected to develop competency in outdoor education activities that provide opportunities for enjoyment and challenge. The selection of activities will include but not limited to, the following elements: orienteering, fishing, and hiking that will also promote a respect for the environment and that can be enjoyed for a lifetime.

AEROBIC ACTIVITIES

KISD #: 1601/1601B

Grades: 9-12

.5 to 1 Credit

Prerequisite:

None

Students enrolled in aerobic activities are exposed to a variety of activities that promote health-related fitness. A major expectation of this course is for the student to design a personal fitness program that uses aerobic activities as a foundation. The selection of activities will include but not limited to, the following elements; aerobic dance, aqua aerobics, jogging, power walking, and step aerobics.

SPORTS MEDICINE

KISD #: 1659

Grades: 9-11

1 Credit

Prerequisite:

Application and Athletic Trainer Approval

This course is an introductory level class that introduces students into the field of Athletic Training and affiliated areas dealing with sports medicine. The objective of this class is to expose the students to the field of athletic training and its demands. Topics covered include CPR and Emergency First Aid, effects on the body from being injured and the anatomy and physiology of the lower body and associated injuries. Involvement in this course will require after school and weekend commitment.

SPORTS MEDICINE 2

KISD #: 1660

Grades: 9-11

1 Credit

Prerequisite:

Application and Athletic Trainer Approval

This course is an upper level course that builds on the information learned in Sports Medicine 1. The objective of this class is to complete the student's exposure to the field of athletic training and its demands. Topics covered include the Anatomy and Physiology of the upper body and Rehabilitation Principles and Techniques to effected regions of the body. Current trends and concepts involving Sports Medicine will also be covered. Involvement in this course will require after school and weekend commitment.

Other Electives

PEER ASSISTANCE AND LEADERSHIP FOR FUTURE TEACHERS

Klein ISD# 9978, 9979

Grades: 11-12

Prerequisite:

1 Credit – This course will satisfy Sponsor selection upon teacher recommendation

This course is designed to encourage students with an interest in leadership for the teaching profession as a possible career for the future. It will provide field experience under the direction of a certified classroom teacher for participating students to help peers achieve academic success. Participants will be trained in a variety of helping skills which will enable them to assist other students in having a more positive and productive school experience. Positive peer influence will be an important component of this assisted-tutorial program.

STUDENT LEADERSHIP

Klein ISD# 9986

Grades: 9-12

Prerequisite:

1 Credit – This course will satisfy Sponsor selection

Student Leadership is a course designed to provide an opportunity for students to study, practice, and develop group and individual leadership and organizational skills. This is the first year course for students who want to be in student council.

STUDENT LEADERSHIP

Klein ISD# 9987

Grades: 10-12

Prerequisite:

1 Credit – This course will satisfy Sponsor selection

Student Leadership is a course designed to provide an opportunity for students to study, practice, and develop group and individual leadership and organizational skills. This course is a continuation of the state leadership course and it gives students the opportunity to be in student council. This is a local credit course and does not count as a state graduation credit.

BEST (BRIDGING THE EDUCATION SCENE FOR TEACHERS OF TOMORROW)

Klein ISD# 9985

Grades: 12

Prerequisite:

1 Credit – This course will satisfy Sponsor selection

This course is designed to provide exposure to the teaching profession for seniors who have shown an interest in pursuing careers in education. The course offers field-based experiences with advanced pre-teaching concepts on the following: education as a profession, effective instructional strategies, equity and excellence for all learners, classroom organization and management. Successful completion of PAL is an indicator of success in BEST.

PATH 1- COLLEGE AND CAREER READINESS

Klein ISD# 9917

Grades: 9

Prerequisite:

1 Credit

None

This elective course is part of a college and career readiness system that provides students with instructional support in all Pre-AP/Pre-IP courses through in-class and after school coaching. This course builds study skills, research skills, develops personal/interpersonal and cognitive skills, develops the understanding of one's character through self-reflection, and develops the habits necessary for continued success in high school, college courses and the workforce. In the PATH elective, students will be immersed in a college going/career ready online learning environment to ensure those who are enrolled are not just college eligible, but college ready.

PATH II- COLLEGE AND CAREER READINESS

Klein ISD# 9925

Grades: 10

Prerequisite:

1 Credit

None

This elective course is part of a college and career readiness system that provides students with instructional support in all Pre-AP/AP and Pre-IP/IB courses through in-class and after school coaching. This course focuses on developing the habits and skills that are expected in college study and the workforce, exploring college and career opportunities that match personal interests, and engaging in ethical decision-making as it applies to real-world and work-place issues by participating in group community service, and preparing for the PSAT and PLAN. In the PATH elective, students will be immersed in a college going/career ready online learning environment to ensure those who are enrolled are not just college eligible, but college ready.

PATH III- COLLEGE AND CAREER READINESS

Klein ISD# 9926

Grades: 11

Prerequisite:

1 Credit

None

This elective course is part of a college and career readiness system that provides students with instructional support in all Pre-AP/AP and Pre-IP/IB courses through in-class and after school coaching. This course focuses on developing the research skills that are expected in college study and the workforce, analyzing the financial, societal and cultural difference of personal college and career choices, engaging in ethical decision-making as it applies to real-world and work-place issues by participating in group community service, and preparing for the SAT and ACT. In the PATH elective, students will be immersed in a college going/career ready online learning environment to ensure those who are enrolled are not just college eligible, but college ready.

PATH IV- COLLEGE AND CAREER READINESS

Klein ISD# 9927

Grades: 12 **1 Credit**

Prerequisite: **None**

This elective course is part of a college and career readiness system that provides students with instructional support in all Pre-AP/AP and Pre-IP/IB courses through in-class and after school coaching. This course focuses on developing the research skills that are expected in college study and the workforce, analyzing the financial, societal and cultural difference of personal college and career choices, engaging in ethical decision-making as it applies to real-world and work-place issues by participating in group community service, and preparing for the SAT and ACT. In the PATH elective, students will be immersed in a college going/career ready online learning environment to ensure those who are enrolled are not just college eligible, but college ready.

AVID 1-4 (Advancement Via Individual Determination)

Klein ISD# 9901, 9902, 9903,9904

Grades: 9-12 **1 Credit**

Prerequisite: **District Selection Process**

AVID is an elective course for students that are enrolled in a college preparatory sequence (PreAP/AP). In the class students receive the scholastic and motivational support needed to succeed in advanced academics. Students are supported by an AVID trained teacher in all subject areas, are coached by college tutors, and work in collaborative groups using a curriculum focused on writing and inquiry. In addition, days are devoted to reading, writing, and math preparation and study skills, and college entrance and placement exams.

CHEERLEADING 1-4

Grades: 9-12 **1 Credit**

Prerequisite: **Tryouts**

This is a course offered in the fall for students elected to be cheerleaders. Emphasis is placed on physical conditioning, refinement of motor skills, practice of cheers, leadership development and citizenship through group endeavors. During athletic seasons, cheerleaders practice after school and perform at varsity athletic games. Attendance at all rehearsals and performances is required. Cheerleading will substitute for P.E. only during fall semesters.

Note: Cheerleading is an approved P.E. substitute only during the fall semester; the second semester will be local credit only. Students are reminded that a maximum of 2 units for P.E., approved P.E. substitute, or P.E. waiver may count toward graduation. Once a student has earned these maximum P.E. units/P.E. substitute units/ P.E. waivers, the remaining Cheerleading units will be granted local credit.

COLORGUARD 1-4

Grades: 9-12

1 Credit

Prerequisite: **Audition**

The high school color guard is an auxiliary unit of the marching band consisting of flags and rifles. Emphasis is placed on physical conditioning, equipment handling and care, musical choreography and dance, creative self-expression through movement, the refinement of motor skills, and citizenship through group endeavors. During football season the color guard rehearses daily after school with the marching band and performs at all varsity football games and selected marching contests. Attendance at all rehearsals and performances is required. Students must furnish their performance uniform (hat excluded) and footwear.

Note: Color Guard is an approved P.E. substitute during the fall semester. Students are reminded that a maximum of 1 unit for P.E., approved P.E. substitute, or P.E. waiver may count toward graduation. Once a student has earned these maximum P.E. units/ P.E. substitute units / P.E. waivers, the Color Guard units will be granted local credit.