

# Curriculum-Course Guide 2021-2022



**USD #500**

**Kansas City Kansas Public Schools**

## Table of Contents

Introductory Letter .....	4
Graduation Requirements .....	5
Special Education .....	6
English Language Learners (ESOL) .....	7
General Questions/Inquiries .....	8
Middle School Grading Policy .....	9
Middle School Courses.....	10
English – Middle School .....	10
Mathematics – Middle School .....	12
Social Studies – Middle School.....	14
Science – Middle School .....	16
Physical Education – Middle School.....	18
Art – Middle School.....	19
Band – Middle School .....	20
Choral – Middle School .....	21
Orchestra – Middle School.....	23
Theatre – Middle School .....	25
Career & Technical Education – Middle School .....	26
World Language – Middle School .....	27
Additional Electives – Middle School .....	29
High School Credits – Middle School .....	30
Honors – Middle School .....	31
High School Grading Policy .....	32
High School Courses.....	33
English Language Arts – High School .....	33
Mathematics – High School .....	40
Social Studies – High School.....	46
Science – High School .....	53
Physical Education – High School.....	60
Art – High School.....	63
Band – High School .....	67
Choral – High School .....	69

General Music – High School .....	71
Orchestra – High School.....	73
Theatre – High School .....	75
Career and Technical Education Pathways .....	77
The Goal of Career and Technical Education .....	77
Diploma+ and CTE .....	77
Current CTE Pathways in KCKPS.....	77
How to Pick Classes in CTE .....	77
World Languages – High School.....	111
ROTC – High School.....	117
Additional Electives – High School .....	119
Advanced Placement (AP) – High School .....	122
Honors – High School .....	123
International Baccalaureate (IB) – High School .....	124
Kansas City Kansas Community College Dual Enrollment Courses (KCKCC) – High School .....	126
TEC – High School.....	127
Special Programs.....	131
K-STEP Up.....	131
Bio+ .....	132
Tech Impact.....	134

## Introductory Letter

Dear Parents,

On behalf of the Board of Education and staff of the Kansas City, Kansas Public Schools (KCKPS), we are delighted you have made the decision to enroll your child in the Kansas City, Kansas Public Schools. Our teachers, administrators, and staff pride themselves on providing our students a quality education throughout their academic experience with the school district. This is significantly tied to the Board of Education's essential goal: "Each student will exit high school prepared for college and careers in a global society, and at every level, each student's performance is on track and on time for success."

KCKPS begins preparing our students as early as preschool offering preschool and Head Start programs to 5 years of age to support our youngest learners, ensuring they are ready to enter kindergarten ready to learn and grow. We also provide hands on learning and real world opportunities at all grade levels, giving our students the opportunity to apply their skills in real world situations. And with programs such as Diploma+© to allow your student to meet the requirements of a high school diploma, and to graduate with endorsements aligned to college and careers. I encourage you to visit the district website at <http://www.kckps.org/diplomaplus> to learn more about the Diploma+© opportunities.

All the way through their academic experience, students will receive the highest quality learning and curriculum which is focused on their success in college and career. In high school they will have opportunities for internships, college credit, and career exploration. KCKPS students graduate ready to seize the opportunities that life has to offer them. Additionally, over the last year we have been on a journey to become a trauma sensitive district, to support students' social and emotional needs. Now more than ever, these are necessary resources for our students, families and staff.

We are aware that this upcoming school year, we will face unique challenges due to the COVID-19 pandemic, however, our district is working to provide the necessary tools our staff, students and families to ensure a successful academic year. Please know, we are here to help and if you ever have any concerns or questions, do not hesitate to contact us. Our journey towards excellence continues marching forward, unwavering and always focused on our mission and our students.

I am excited about the opportunities awaiting your child in the Kansas City, Kansas Public Schools. Together we will overcome the unique challenges of this coming school year, focused on the highest quality education for all of our students. We look forward to working with you and your family as we work together to uphold our mission: "Inspiring Excellence: Every Grownup, Every Child, Every Day!"

Sincerely,  
Randy Lopez, President

# Graduation Requirements

## **Graduation Requirements through Class 2022**

To graduate from a Kansas City, Kansas Public High School, a student must earn 25 credits.

- 4.5 credits of English
- 4 credits of Math
- 3 credits of Social Studies
- 3 credits of Science
- 1 credit of Physical Education/Health
- 1 credit of Fine Arts
- 2 credits of Career/Technical
- 6.5 Electives

## **Graduation Requirements Beginning with Class 2023**

To graduate from a Kansas City, Kansas Public High School, a student must earn 25 credits.

- 4.5 credits of English
- 4 credits of Math
- 3 credits of Social Studies
- 3 credits of Science
- 1 credit of Physical Education/Health
- 1 credit of Fine Arts
- 2 credits of Career/Technical
- 2 World Languages
- 4.5 Electives

To graduate from *Sumner Academy of Arts and Science*, a student must earn 27 ½ credits, 22 ½ of which are required:

- 5.5 credits of English
- 4 credits of Math
- 3 credits of Social Studies
- 3 credits of Science
- 3.5 units of World Languages
- 1 credit of Physical Education/Health
- 1 credit of Fine Arts
- 1.5 credits of Career/Technical

Students seeking an International Baccalaureate Diploma must successfully complete twenty-seven and a half units of credit to include three Higher Level (HL) courses and three Standard Level (SL) courses.

## Special Education

To learn more about special education services and course offerings, please contact our Department of Special Education at 913-627-5600 or reach out to our SPED Parent Support Line at 913-608-4696.

## English Language Learners (ESOL)

English to Speakers of Other Languages (ESOL) courses are available to meet the needs of emergent multilingual students who have limited English Language proficiency. Eligibility for ESOL services and courses are determined by the English language proficiency assessment placement (KELPA-P) test and ESL teacher recommendation. English language development support is offered through ELD courses, Shelter Instruction, Co-teaching, or Mainstream with push-in support. To learn more about ESOL services and course offerings, please contact the Department of ESOL and Migrant Programs at 913-627-5626.

## General Questions/Inquiries

For general questions or inquiries about non-SPED or non-ESOL curriculum/courses, please contact your building counselors or administrators.



**IHA – Grading System Policy from School/Parent Handbook**

The purpose of grading shall be to communicate student learning with students and parents/guardians. The communication shall be as such to invite participation within the student’s learning process. Grades shall communicate student learning relative to clearly stated instructional expectations based on the standards of the content. Grades shall be mainly determined by assessments in the form of, but not limited to written tests, essays, science experiments, multimedia presentations, products, performances, works of art, speeches, demonstrations, etc. Daily assignments, class participation, application of skills, etc. can be considered as a portion of the grade.

Report cards for all students shall be sent home and posted in the online gradebook four times a year at the end of a quarter. In addition, progress reports for all students shall be issued at the midpoint of each quarter. Grades shall be updated in the online gradebook each week (approximately 10 per quarter) to keep everyone informed of student progress.

**Grading Scale:**

All student work is based on standards. Grades cannot be explicitly used for reward or punishment. Grading practices cannot place a student in a situation where he/she is doomed to fail mid-year with no recourse.

Grade Scales-Student performance shall be communicated using the appropriate grade-level scale.

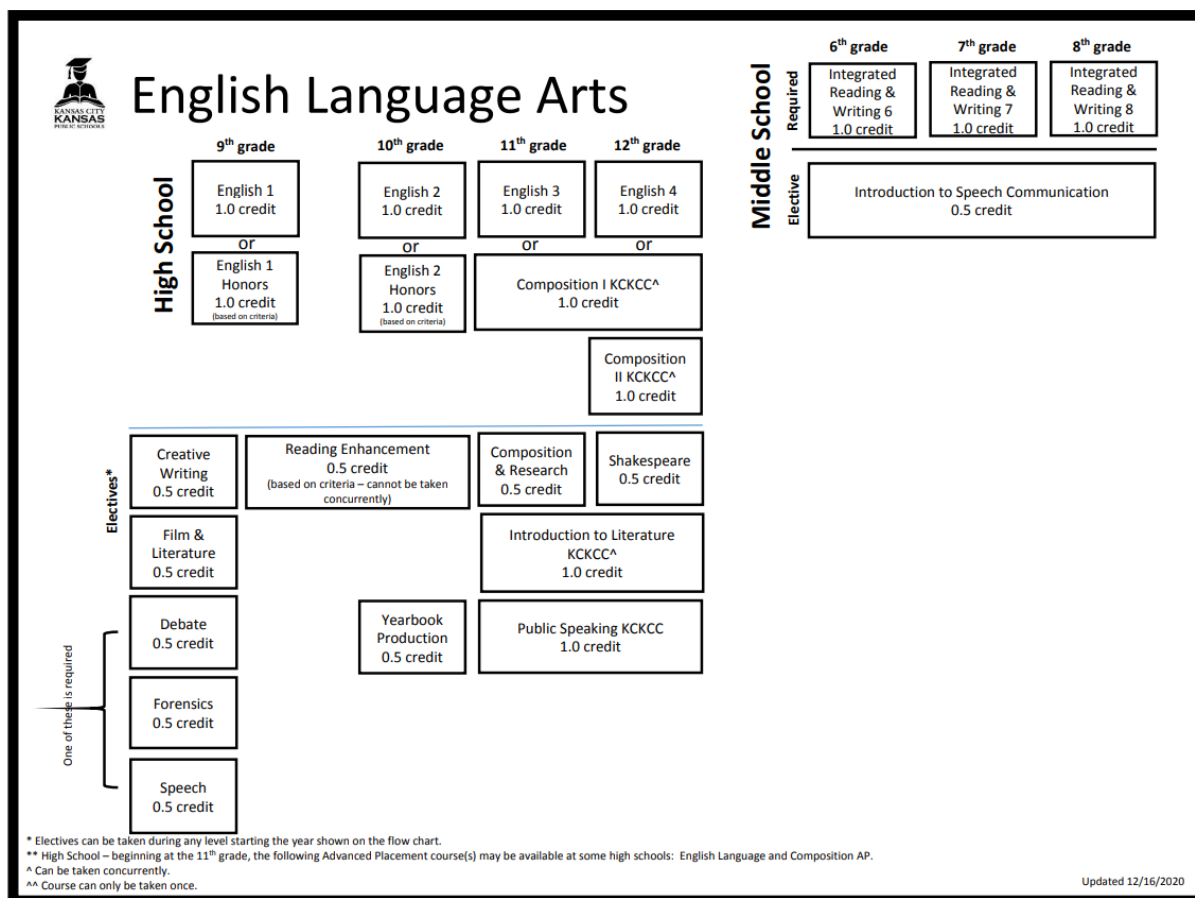
**The scale for reporting grades in Grades 6 through 12.**

- ❖ A – 90-100%
- ❖ B – 80-89%
- ❖ C – 70-79%
- ❖ D – 60-69%
- ❖ F – 59% or below
- ❖ I - Incomplete

## Middle School Courses

### English – Middle School

Course Name	Credit Type	Credit	College Credit	Grade	Other Information
Integrated Reading & Writing 6	English	Full Year	No	6	
Integrated Reading & Writing 7	English	Full Year	No	7	
Integrated Reading & Writing 8	English	Full Year	No	8	
Introduction to Creative Writing	ELECTIVE	Half Year	No	6-8	
Introduction to Journalism	ELECTIVE	Half Year	No	7-8	
Speech MS	ELECTIVE	Half Year	No	6-8	



#### Integrated Reading & Writing 6

Course #: 01061042  
Credit: Full Year

Credit Type: English  
Grade Level: 6

This Language Arts course builds upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing, and includes the four aspects of language use: reading, writing, speaking, and listening. This course emphasizes the use of language for different effects, in different contexts, and for different purposes. Students can expect to read a variety of fiction and non-fiction including novels, short stories, dramas, poetry, and essays. This course provides an integrated balance of reading narrative and informational texts, along with writing tasks appropriate to grade level 6. Students will become proficient at gathering information, evaluating sources and citing material accurately, reporting findings from their research and analysis of sources in a clear manner. To be college and career ready writers, students must take task, purpose, and audience into careful consideration, choosing words, information, structures, and formats deliberately. Through an integrated approach, skills and strategies will be developed and applied through the Kansas College and Career Readiness Standards.

#### Integrated Reading & Writing 7

Course #: 01071042

Credit Type: English

Credit: Full Year

Grade Level: 7

This Language Arts course builds upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing, and includes the four aspects of language use: reading, writing, speaking, and listening. This course emphasizes the use of language for different effects, in different contexts, and for different purposes. Students can expect to read a variety of fiction and non-fiction including novels, short stories, dramas, poetry, and essays. This course provides an integrated balance of reading narrative and informational texts, along with writing tasks appropriate to grade level 7. Students will become proficient at gathering information, evaluating sources and citing material accurately, reporting findings from their research and analysis of sources in a clear manner. To be college and career ready writers, students must take task, purpose, and audience into careful consideration, choosing words, information, structures, and formats deliberately. Through an integrated approach, skills and strategies will be developed and applied through the Kansas College and Career Readiness Standards.

#### **Integrated Reading & Writing 8**

Course #: 01081042

Credit Type: English

Credit: Full Year

Grade Level: 8

This Language Arts course builds upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing, and includes the four aspects of language use: reading, writing, speaking, and listening. This course emphasizes the use of language for different effects, in different contexts, and for different purposes. Students can expect to read a variety of fiction and non-fiction including novels, short stories, dramas, poetry, and essays. This course provides an integrated balance of reading narrative and informational texts, along with writing tasks appropriate to grade level 8. Students will become proficient at gathering information, evaluating sources and citing material accurately, reporting findings from their research and analysis of sources in a clear manner. To be college and career ready writers, students must take task, purpose, and audience into careful consideration, choosing words, information, structures, and formats deliberately. Through an integrated approach, skills and strategies will be developed and applied through the Kansas College and Career Readiness Standards.

#### **Introduction to Creative Writing**

Course #: 01062001

Credit Type: **ELECTIVE**

Credit: Half Year

Grade Level: 6-8

This course is an introduction to the art of creative writing and publishing. Class participants will write and revise pieces in a number of genres including personal essays, short stories, poetry, drama, and fairy tales among other alternative genres. The focus of this class will be on various processes for creating and using mentor texts as inspiration. Students will learn from each other, providing and listening to feedback while learning to engage in a supportive, creative community that empowers individual curiosity and artistic risk-taking.

#### **Introduction to Journalism**

Course #: 01074011

Credit Type: **ELECTIVE**

Credit: Half Year

Grade Level: 7-8

In this course, students will be equipped with an understanding of the principles and practice of journalism: how to recognize good stories and gather facts through skillful interviewing and research. Students will learn how to organize ideas and format stories while developing sources, craft welcoming leads and satisfying endings, and how to create news and feature articles that inform and engage readers. The course will also examine the historical development of journalism and the role of journalism in society.

#### **Speech MS**

Course #: 01068001

Credit Type: **ELECTIVE**

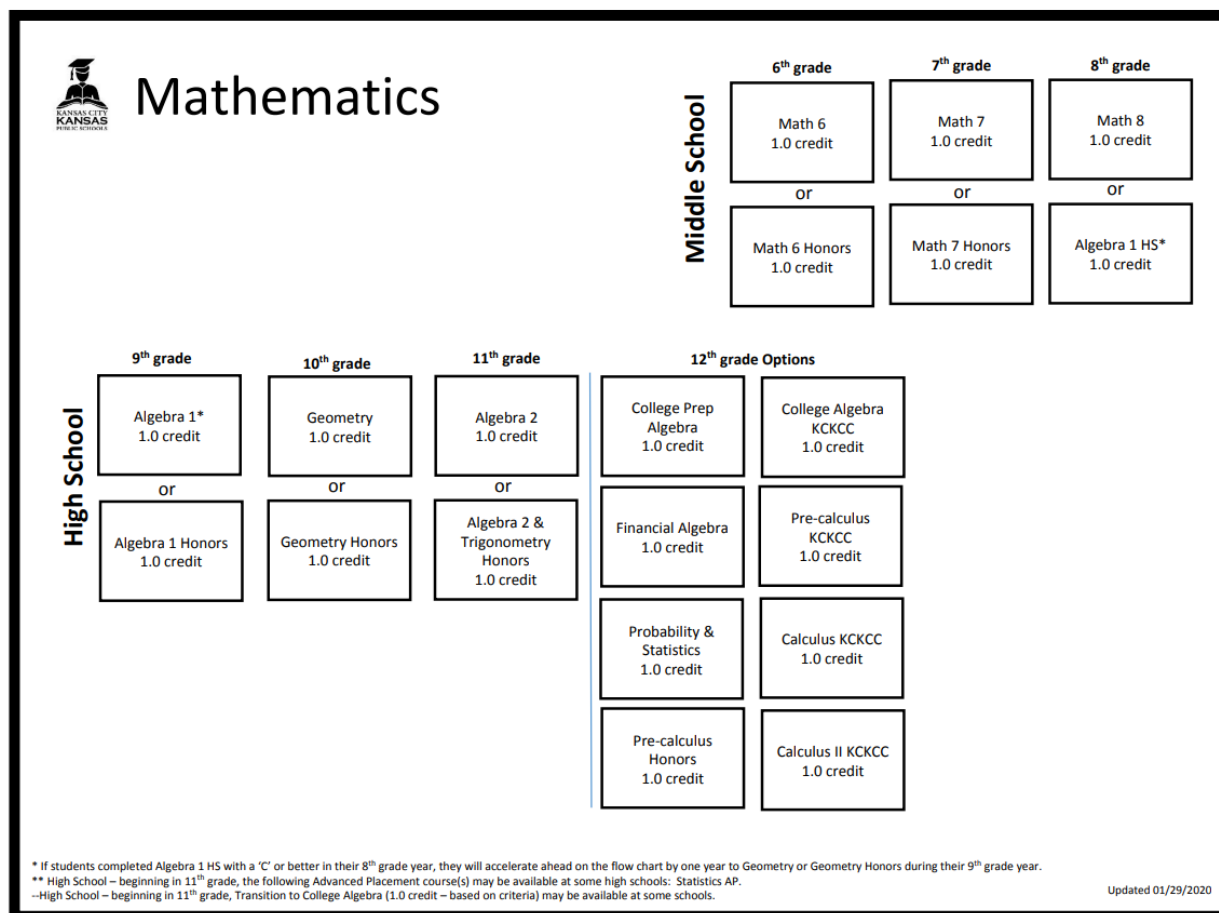
Credit: Half Year

Grade Level: 6-8

Through this course, students will proficiently demonstrate public speaking skills necessary for a variety of audiences in preparation for high school and for post-secondary opportunities. This course enables students to develop communication skills that can be used in a variety of speaking situations (such as small-and large-group discussions, delivery of lectures or speeches in front of audiences, etc.) Course topics may include (but are not limited to) research and organization, writing for verbal delivery, stylistic choices, visual and presentation skills, analysis and critique, and development of self-confidence.

## Mathematics – Middle School

Course Name	Credit Type	Credit	College Credit	Grade	Other Information
Math 6	Math	Full Year	No	6	
Math 6 Honors	Math	Full Year	No	6	
Math 7	Math	Full Year	No	7	
Math 7 Honors	Math	Full Year	No	7	
Math 8	Math	Full Year	No	8	
Algebra 1 HS	Math	1.0	No	8	Grade 8 ONLY



### Math 6

Course #: 02061022      Credit Type: Math  
 Credit: Full Year      Grade Level: 6

Math 6 is a transition course that focuses on deepening elementary math skills to connect and prepare students for the study of algebra in later grades. Main foci in this course are: Solidifying multi-digit division and decimal operations; connecting elementary math to develop understanding of the number system; develop an understanding in geometry of volume and surface area; introduce statistical thinking; and develop an understanding of the purpose for equations.

### Math 6 Honors

Course #: 02062002      Credit Type: Math  
 Credit: Full Year      Grade Level: 6

Math 6 Honors is a compacted course that includes all the full Math 6 standards and portions of the Math 7 standards. The purpose of taking this course is to prepare students to take Algebra 1 in 8th grade. This course is meant to prepare students to be academically successful in mathematics in either a STEM pathway or apply for Sumner Academy.

**Math 7**

Course #: 02071022  
Credit: Full Year

Credit Type: Math  
Grade Level: 7

Math 7 is the bridge between elementary concepts and Math 8. Main foci in this course are: Student development and understanding of proportional reasoning and rational numbers; working with expressions and equations; exploration of geometry concepts, including scale drawings; and analyzing data and statistics.

**Math 7 Honors**

Course #: 02072002  
Credit: Full Year

Credit Type: Math  
Grade Level: 7

Math 7 Honors is a compacted course that includes remaining portions of the Math 7 standards and all Math 8 standards. The purpose of taking this course is to prepare students to take Algebra 1 in 8th grade. This course is meant to prepare students to be academically successful in mathematics in either a STEM pathway or apply for Sumner Academy.

**Math 8**

Course #: 02081002  
Credit: Full Year

Credit Type: Math  
Grade Level: 8

Math 8 is the culmination of middle school concepts, and forms the basis for extended high school math. Main foci in this course are: Formulating, reasoning about, and solving expressions, equations, and inequalities; understanding and utilizing the concept of functions; and extending their knowledge of geometry using distance, angles, congruence, and the Pythagorean Theorem.

**Algebra 1 HS**

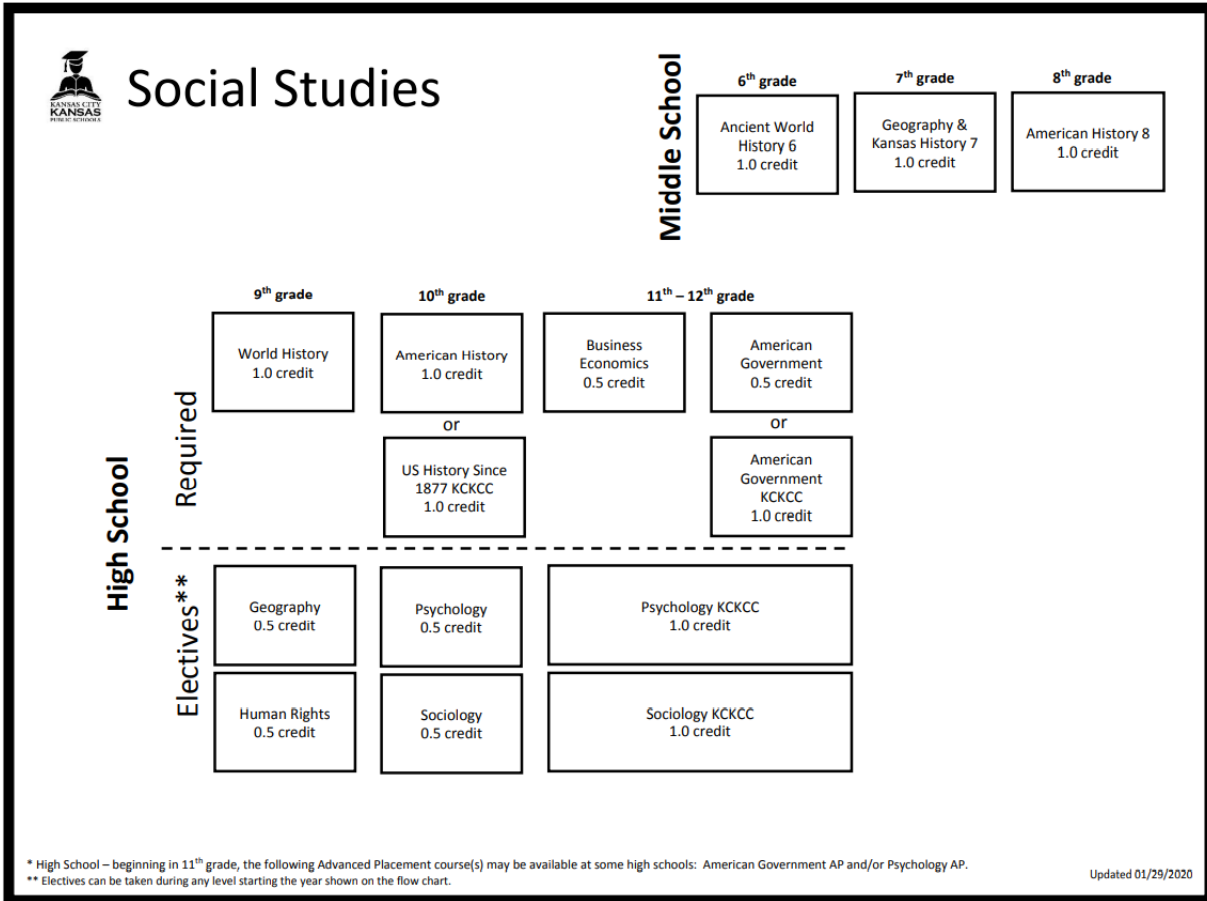
Course #: 02091920  
Credit: 1.0

Credit Type: Math  
Grade Level: 8

Algebra 1 is available for all students entering high school. Algebra 1 is also available to 8th Graders that have successfully completed Math 6 Honors and Math 7 Honors OR been selected for enrollment at Sumner Academy. The critical areas in Algebra 1 deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend. Students engage in methods for analyzing, solving, and using quadratic functions.

## Social Studies – Middle School

Course Name	Credit Type	Credit	College Credit	Grade	Other Information
Ancient World History 6	Social Studies	Full Year	No	6	
Geography & Kansas History 7	Social Studies	Full Year	No	7	
American History 8	Social Studies	Full Year	No	8	



### Ancient World History 6

Course #: 04061002  
Credit: Full Year

Credit Type: Social Studies  
Grade Level: 6

Social Studies (grade 6) Ancient World History covers the time period from the birth of the river valley civilizations of Mesopotamia, Egypt, India, and China to the Middle Ages in Europe. Students will examine the impact of geography on the development of civilizations. Students will draw conclusions about the significance of various civilizations and their connection to events, ideas, and culture today. The course should be rigorous and relevant with instruction that integrates thinking skills, historical processes, and content so that students are able to apply their learning to their own lives.

### Geography & Kansas History 7

Course #: 04071002  
Credit: Full Year

Credit Type: Social Studies  
Grade Level: 7

Social Studies (grade 7) Geography should familiarize students with their world using the Essential Elements and Geography Themes. Students should develop skills and knowledge about location, place, human/environmental interaction, movement, and regions. The course should compare and contrast these themes across all continents. Special attention should be given to the most essential skills and knowledge of the discipline. Instruction should feature examples from a variety of geographic regions. Kansas History is the study of native inhabitants of the land that was to become Kansas. The course will cover major events, individuals, groups, innovations, and movements from pre-historic days to the present. The course should be rigorous and relevant with instruction that integrates thinking skills, historical processes, and content so that students are able to apply their learning to their own lives.

**American History 8**

Course #: 04081002

Credit Type: Social Studies

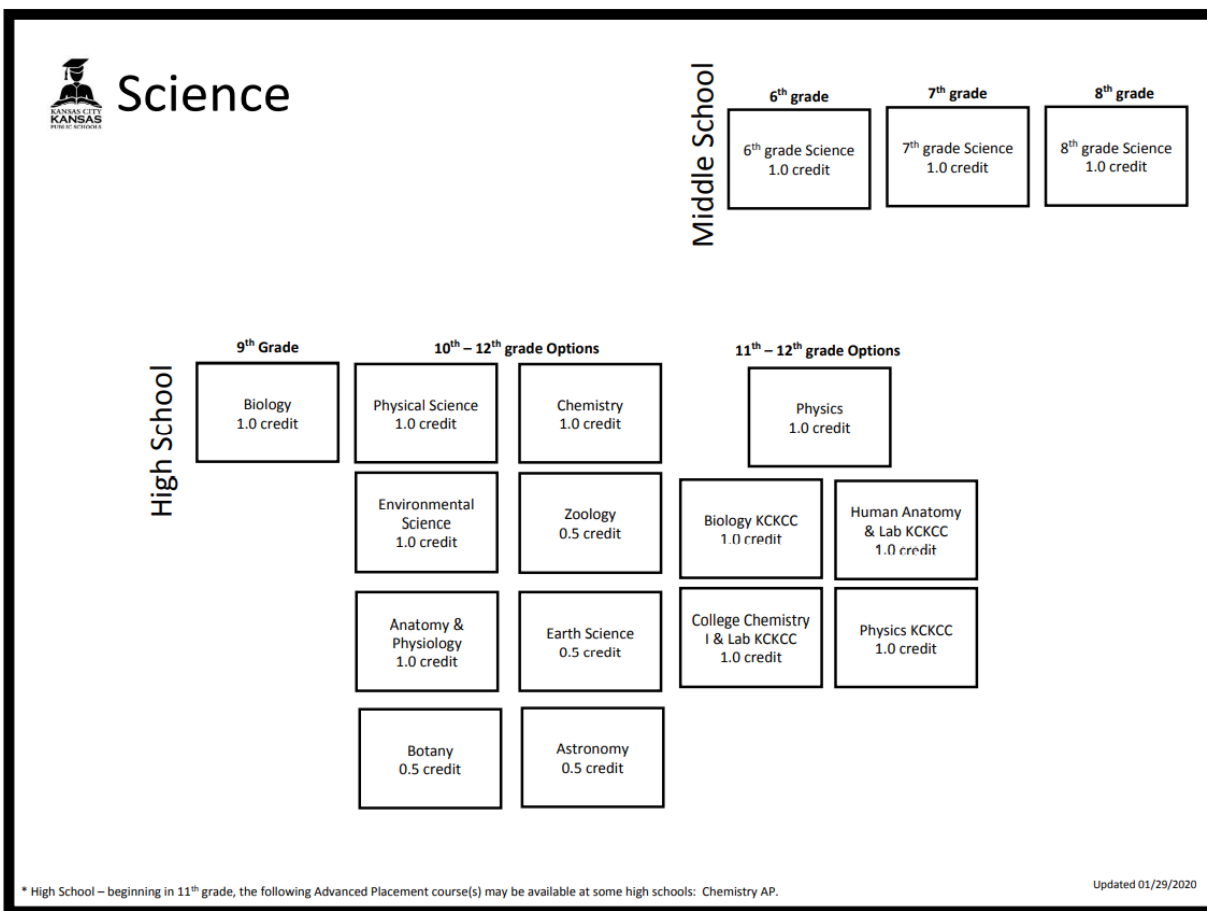
Credit: Full Year

Grade Level: 8

Social Studies (grade 8) American History will review the major ideas, issues, and events of the founding of the nation and Constitutional Period. Students will then concentrate on the critical events, people, groups, ideas, and issues of the period from 1800 to 1900 - including Westward expansion, sectionalism, the Civil War Reconstruction, Populism, and Imperialism. The course should be rigorous and relevant with instruction that integrates thinking skills, historical processes, and content so that students are able to apply the learning to their own lives. Instruction should include the integration of concepts and principles from history, economics, geography, civics, and the humanities.

## Science – Middle School

Course Name	Credit Type	Credit	College Credit	Grade	Other Information
6 <sup>th</sup> grade Science	Science	Full Year	No	6	
7 <sup>th</sup> grade Science	Science	Full Year	No	7	
8 <sup>th</sup> grade Science	Science	Full Year	No	8	



### Science 6

Course #: 03061002  
Credit: Full Year

Credit Type: Science  
Grade Level: 6

Science (grade 6) include subject matter from several strands of science, including earth/space sciences, physical sciences, and life sciences, the course organizes material around thematic units based upon the Kansas College and Career Ready Standards for Science.

### Science 7

Course #: 03071002  
Credit: Full Year

Credit Type: Science  
Grade Level: 7

Science (grade 7) builds on previous years of scientific inquiry and includes subject matter from several strands of science, including earth/space sciences, physical sciences, and life sciences, the course organizes material around thematic units based upon the Kansas College and Career Ready Standards for Science.

### Science 8

Course #: 03081020  
Credit: Full Year

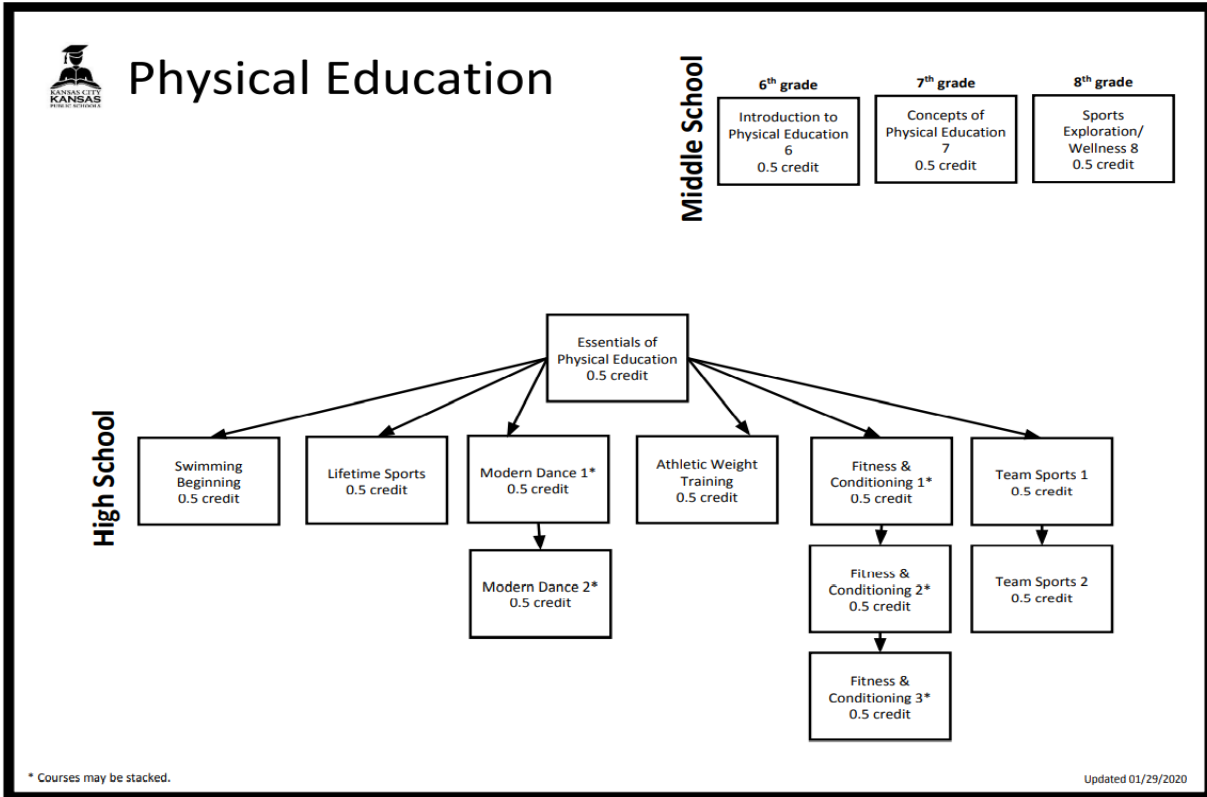
Credit Type: Science  
Grade Level: 8



Science (grade 8) builds on previous years of scientific inquiry and includes subject matter from several strands of science, including earth/space sciences, physical sciences, and life sciences, the course organizes material around thematic units based upon the Kansas College and Career Ready Standards for Science.

## Physical Education – Middle School

Course Name	Credit Type	Credit	College Credit	Grade	Other Information
Introduction to Physical Education 6	Physical Education	Half Year	No	6	
Concepts of Physical Education 7	Physical Education	Half Year	No	7	
Sports Exploration & Wellness 8	Physical Education	Half Year	No	8	



### Introduction to Physical Education 6

Course #: 06061001  
Credit: Half Year

Credit Type: Phys Ed  
Grade Level: 6

This course involves the acquisition of knowledge and skills that provide the foundation for sport, a physically active lifestyle, and social development through physical activity. Activities typically include those that increase strength, endurance, and flexibility; reinforce safe techniques; and explore the relationship between physical activity and health.

### Concepts of Physical Education 7

Course #: 06071001  
Credit: Half Year

Credit Type: Phys Ed  
Grade Level: 7

This course involves the acquisition of knowledge and skills that provide the foundation for sport, a physically active lifestyle, and social development through physical activity. Activities typically include those that increase strength, endurance, and flexibility; reinforce safe techniques; and explore the relationship between physical activity and health.

### Sports Exploration & Wellness 8

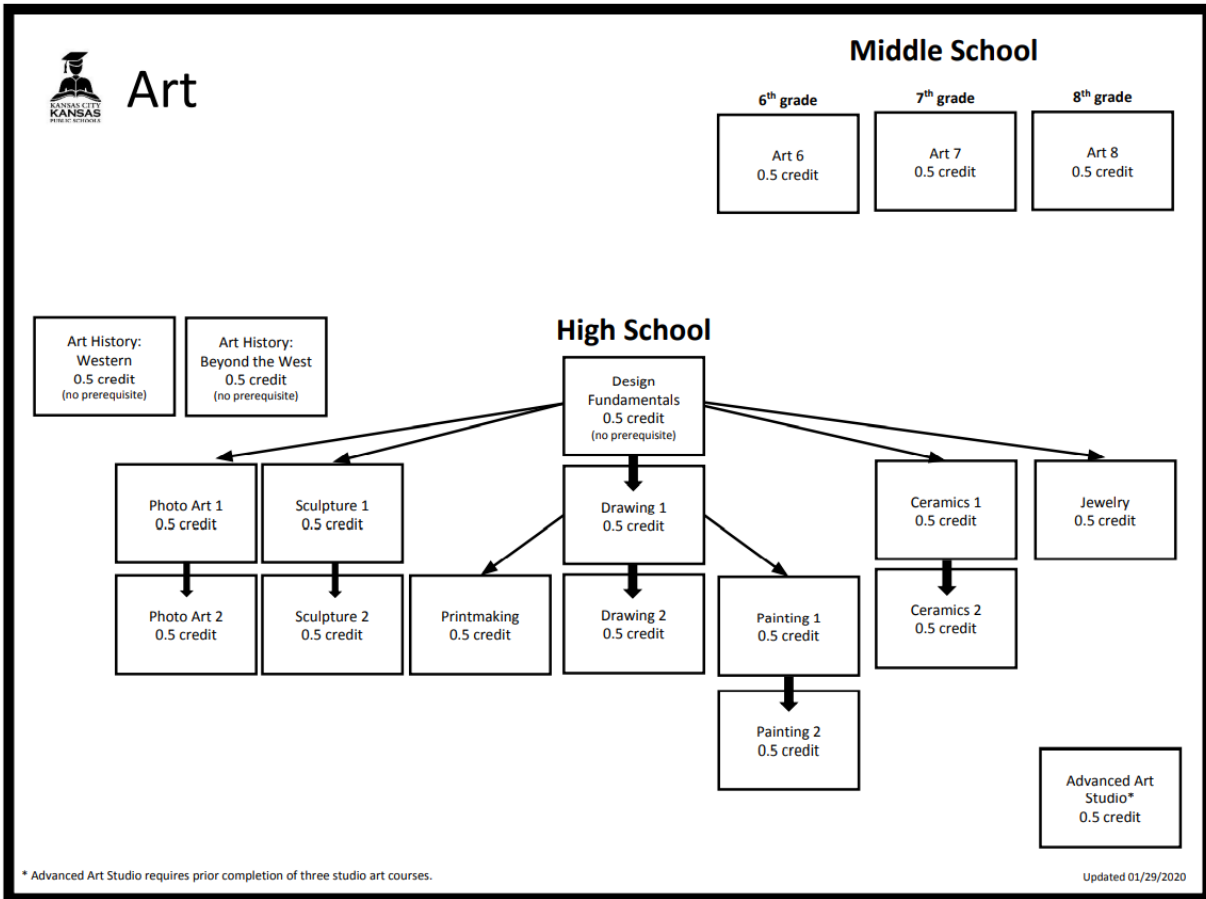
Course #: 06081001  
Credit: Half Year

Credit Type: Phys Ed  
Grade Level: 8

This course involves the acquisition of knowledge and skills that provide the foundation for sport, a physically active lifestyle, and social development through physical activity. Activities typically include those that increase strength, endurance, and flexibility; reinforce safe techniques; and explore the relationship between physical activity and health. Health topics (such as the effects of drugs and alcohol, sexual education, and healthy lifestyles) are also included.

## Art – Middle School

Course Name	Credit Type	Credit	College Credit	Grade	Other Information
Art 6	Fine Arts	Half Year	No	6	
Art 7	Fine Arts	Half Year	No	7	
Art 8	Fine Arts	Half Year	No	8	



### Art 6

Course #: 07061003  
Credit: Full Year

Credit Type: Fine Arts  
Grade Level: 6

Art teaches the general elements and principles of art and explores design and composition. Students will work in two- and three-dimensional media to include drawing, painting, design and construction.

### Art 7

Course #: 07071003  
Credit: Full Year

Credit Type: Fine Arts  
Grade Level: 7

Art teaches the general elements and principles of art and explores design and composition. Students will work in two- and three-dimensional media to include drawing, painting, design and construction.

### Art 8

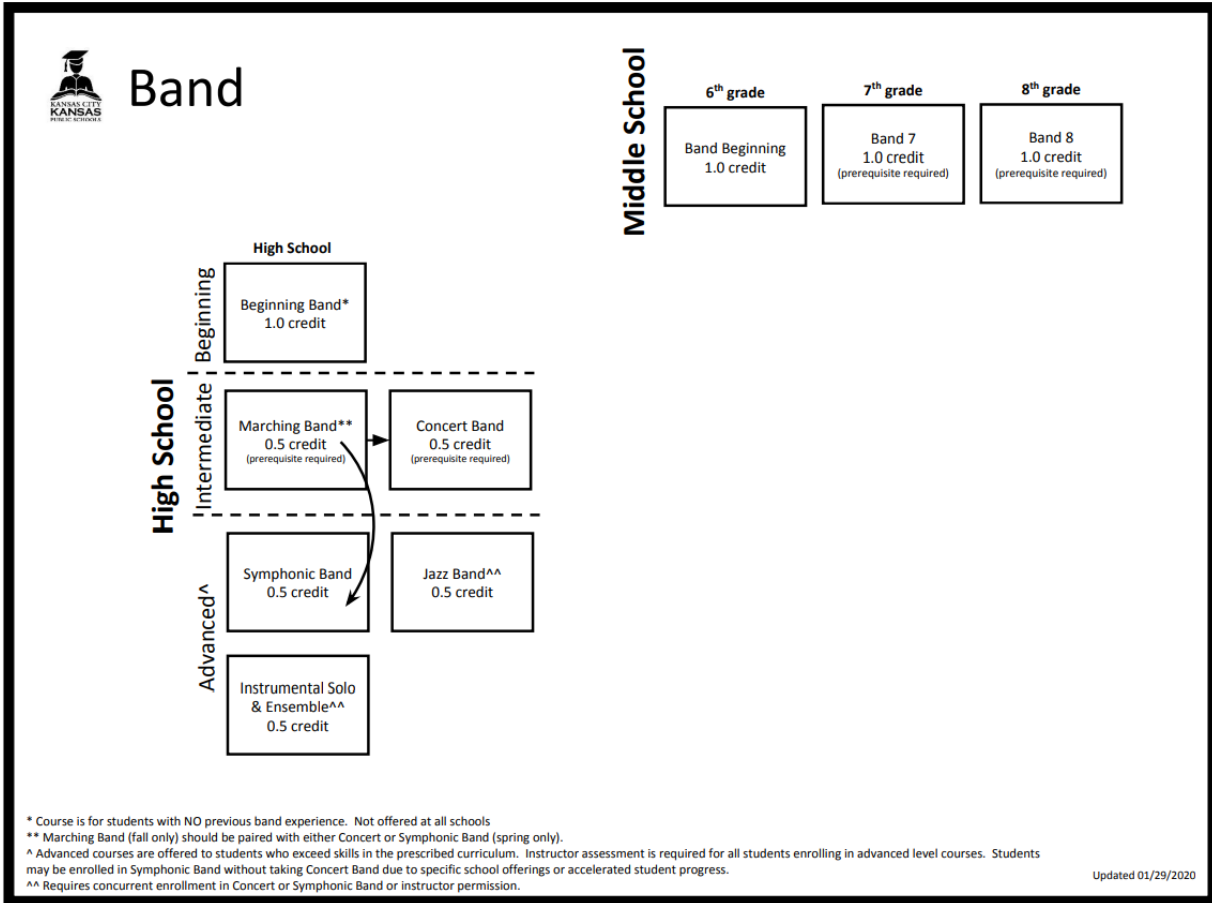
Course #: 07081003  
Credit: Full Year

Credit Type: Fine Arts  
Grade Level: 8

Art teaches the general elements and principles of art and explores design and composition. Students will work in two- and three-dimensional media to include drawing, painting, design and construction.

## Band – Middle School

Course Name	Credit Type	Credit	College Credit	Grade	Other Information
Band Beginning	Fine Arts	Full Year	No	6	
Band 7	Fine Arts	Full Year	No	7	
Band 8	Fine Arts	Full Year	No	8	



### Band Beginning

Course #: 08063002  
 Credit: Full Year

Credit Type: Fine Arts  
 Grade Level: 6

Band Beginning is for students with no prior experience. Emphasis will be on music reading, rhythmic precision, technical skills and tone production. Attendance at several evening events is required.

### Band 7

Course #: 08073022  
 Credit: Full Year

Credit Type: Fine Arts  
 Grade Level: 7

Band is for band students with prior experience and who meet prescribed skills in the district scope and sequence. Emphasis will be on music reading, rhythmic precision, technical skills and tone production. Attendance at several evening events is required.

### Band 8

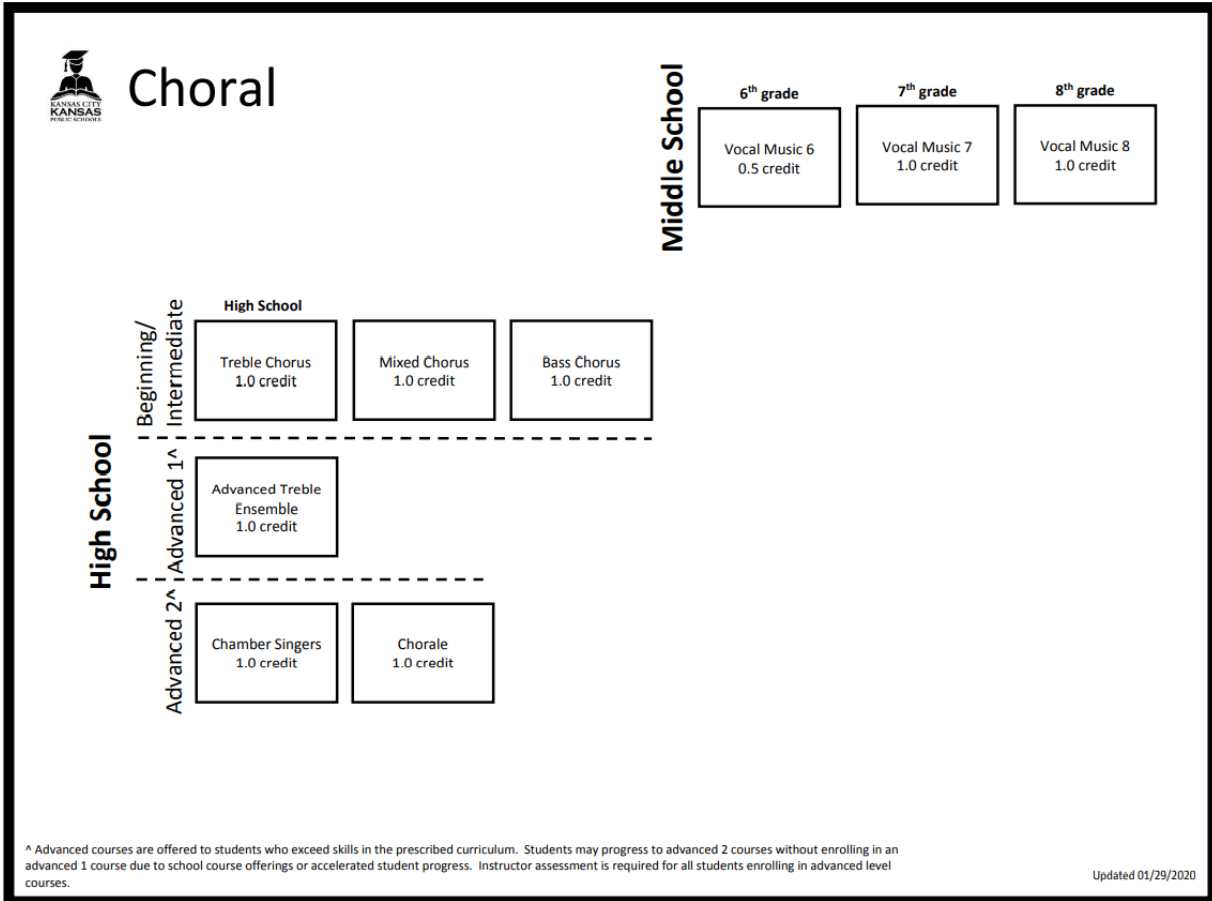
Course #: 08083022  
 Credit: Full Year

Credit Type: Fine Arts  
 Grade Level: 8

Band is for band students with prior experience and who meet prescribed skills in the district scope and sequence. Emphasis will be on music reading, rhythmic precision, technical skills and tone production. Attendance at several evening events is required.

## Choral – Middle School

Course Name	Credit Type	Credit	College Credit	Grade	Other Information
Vocal Music 6	Fine Arts	Half Year	No	6	
Vocal Music 7	Fine Arts	Full Year	No	7	
Vocal Music 8	Fine Arts	Full Year	No	8	



### Vocal Music 6

Course #: 08061003  
Credit: Half Year

Credit Type: Fine Arts  
Grade Level: 6

Vocal Music is for any student interested in singing in a choral ensemble. This course includes a general survey of the elements of music and music history; emphasis will be on music literacy, beginning vocal technique, and choral ensemble skills. Attendance at evening events is required. This course has no required prerequisites.

### Vocal Music 7

Course #: 08071007  
Credit: Full Year

Credit Type: Fine Arts  
Grade Level: 7

Vocal Music is for any student interested in singing in a choral ensemble. This course includes a general survey of the elements of music and music history; emphasis will be on music literacy, beginning vocal technique, and choral ensemble skills. Attendance at evening events is required. This course has no required prerequisites.

### Vocal Music 8

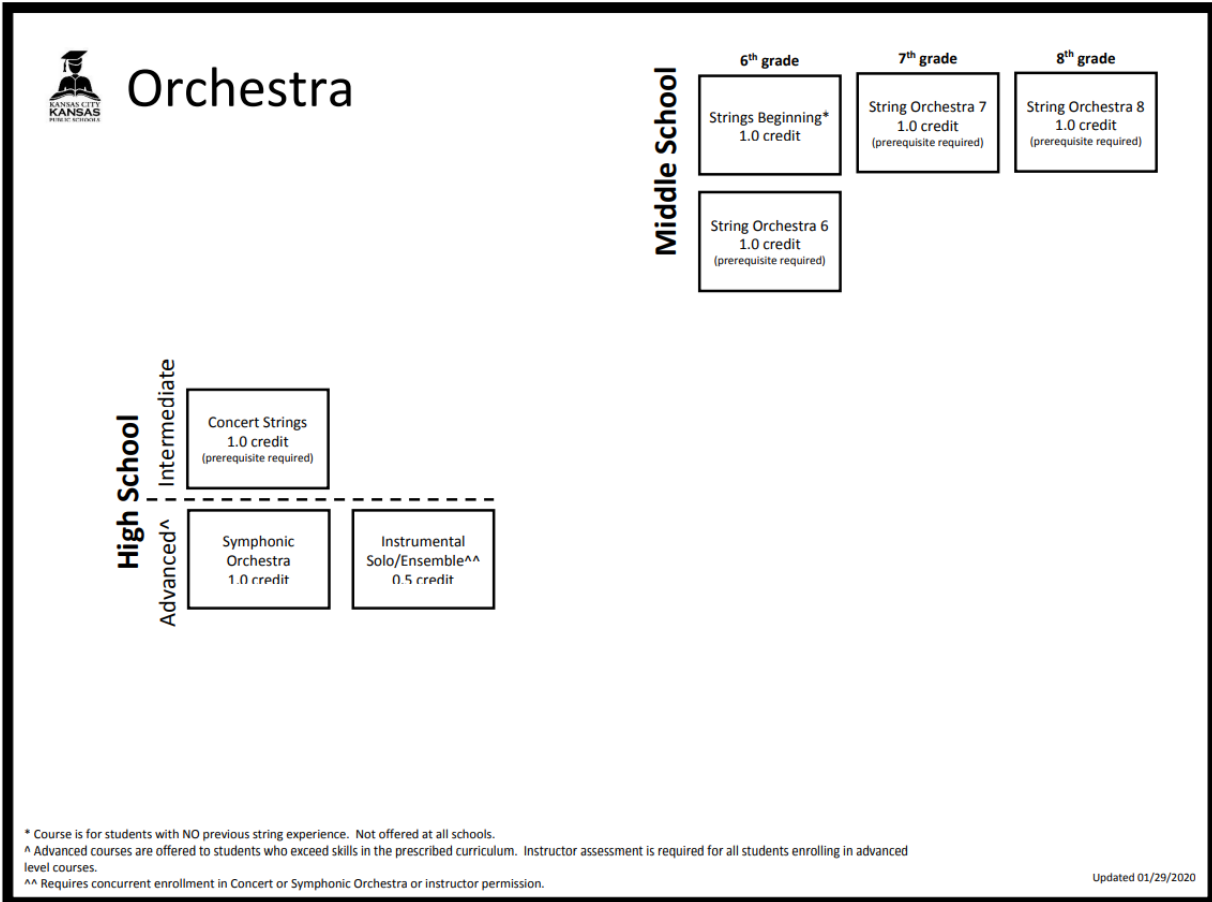
Course #: 08081007  
Credit: Full Year

Credit Type: Fine Arts  
Grade Level: 8

Vocal Music is for any student interested in singing in a choral ensemble. This course includes a general survey of the elements of music and music history; emphasis will be on music literacy, beginning vocal technique, and choral ensemble skills. Attendance at evening events is required. This course has no required prerequisites.

## Orchestra – Middle School

Course Name	Credit Type	Credit	College Credit	Grade	Other Information
Strings Beginning MS	Fine Arts	Full year	No	6-8	for student who have no prior instrument experience
Orchestra 6	Fine Arts	Full Year	No	6	
Orchestra 7	Fine Arts	Full Year	No	7	
Orchestra 8	Fine Arts	Full Year	No	8	



### Strings Beginning MS

Course #: 08064002  
 Credit: Full Year

Credit Type: Fine Arts  
 Grade Level: 6-8

Beginning Strings is for students with no prior experience. Emphasis will be on music reading, rhythmic precision, technical skills and tone production. Attendance at several evening events is required.

### Orchestra 6

Course #: 08064022  
 Credit: Full Year

Credit Type: Fine Arts  
 Grade Level: 6

String Orchestra is for orchestra students with prior experience and who meet prescribed skills in the district scope and sequence. Emphasis will be on music reading, rhythmic precision, technical skills and tone production. Attendance at several evening events is required.

### Orchestra 7

Course #: 08074022  
 Credit: Full Year

Credit Type: Fine Arts  
 Grade Level: 7

String Orchestra is for orchestra students with prior experience and who meet prescribed skills in the district scope and sequence. Emphasis will be on music reading, rhythmic precision, technical skills and tone production. Attendance at several evening events is required.

**Orchestra 8**

Course #: 08084022

Credit Type: [Fine Arts](#)

Credit: Full Year

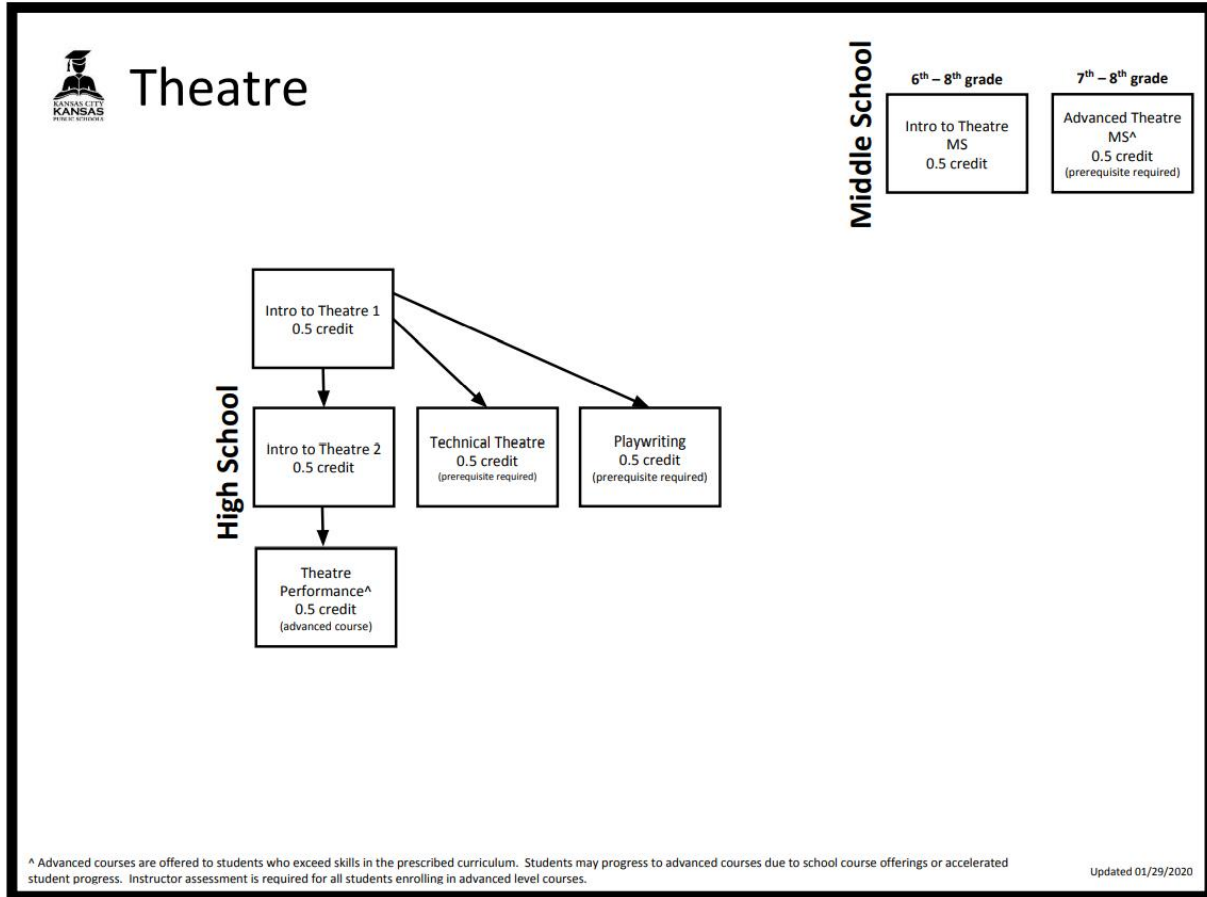
Grade Level: 8

String Orchestra is for orchestra students with prior experience and who meet prescribed skills in the district scope and sequence. Emphasis will be on music reading, rhythmic precision, technical skills and tone production. Attendance at several evening events is required.



## Theatre – Middle School

Course Name	Credit Type	Credit	College Credit	Grade	Other Information
Introduction to Theatre MS	Fine Arts	Half Year	No	6-8	
Advanced Theatre MS	Fine Arts	Half Year	No	7-8	May be taken more than once



### Introduction to Theatre MS

Course #: 09061011  
Credit: Half Year

Credit Type: Fine Arts  
Grade Level: 6-8

Introduction to Theatre is an introduction to the dramatic arts. All aspects of the theatre will be explored, including acting, improvisation, play types and play structures. Students will actively participate in theatrical exercises to help them explore and develop an appreciation of various art forms and to develop self-awareness, self-confidence, and physical and vocal expression.

### Advanced Theatre MS

Course #: 09072011  
Credit: Half Year

Credit Type: Fine Arts  
Grade Level: 7-8

Advanced Theatre is an advanced course for students who have completed an intro to theatre course and provides an opportunity for continued development of the skills learned during an introductory course. Course content is focused on performance and explores the use of movement, language, character, plot, and other elements of theatrical production to portray real or imaginary experiences.

## Career & Technical Education – Middle School

KCKPS has transformed learning from what many know as traditional "school" to "Diploma+" learning. Diploma+ begins in preschool, building a strong foundation in academic and social/emotional skills – like stepping stones to the future. Diploma+ continues into middle school with project-based, hands-on learning experiences, career exploration, and college and industry visits. As students enter high schools, Diploma+ provides them with real-world experiences tied to their career interests through Career and Technical education classes. Each high school offers students different career paths to choose from as they embark on their journey to graduating Diploma+.

Course Name	Credit Type	Credit	College Credit	Grade	Other Information
Career Exploration	ELECTIVE	Half Year	No	6-8	
Code Creators	ELECTIVE	Half Year	No	6-8	
Computer Applications	ELECTIVE	Half Year	No	8	Grade 8 ONLY
Exploring Computers	ELECTIVE	Half Year	No	6-7	

### Career Exploration

Course #: 10073021  
Credit: Half Year

Credit Type: ELECTIVE  
Grade Level: 6-8

Career Exploration courses help students identify and evaluate personal goals, priorities, aptitudes, and interests, with the goal of helping them make informed decisions about their careers. These courses expose students to various sources of information on career and training options and may also assist them in developing job search and employability skills.

### Code Creators

Course #: 10091021  
Credit: Half Year

Credit Type: ELECTIVE  
Grade Level: 6-8

This elective course is available for the 20-21 school year only at Central Middle School. It will cover the basics of Computer Programming using a variety of programming languages and goals.

### Computer Applications

Course #: 10081007  
Credit: Half Year

Credit Type: ELECTIVE  
Grade Level: 8

In Computer Applications courses, students acquire knowledge of and experience in the proper and efficient use of previously written software packages. These courses explore a wide range of applications, including (but not limited to) word-processing, spreadsheet, graphics, and database programs, and they may also cover the use of electronic mail and desktop publishing.

### Exploring Computers

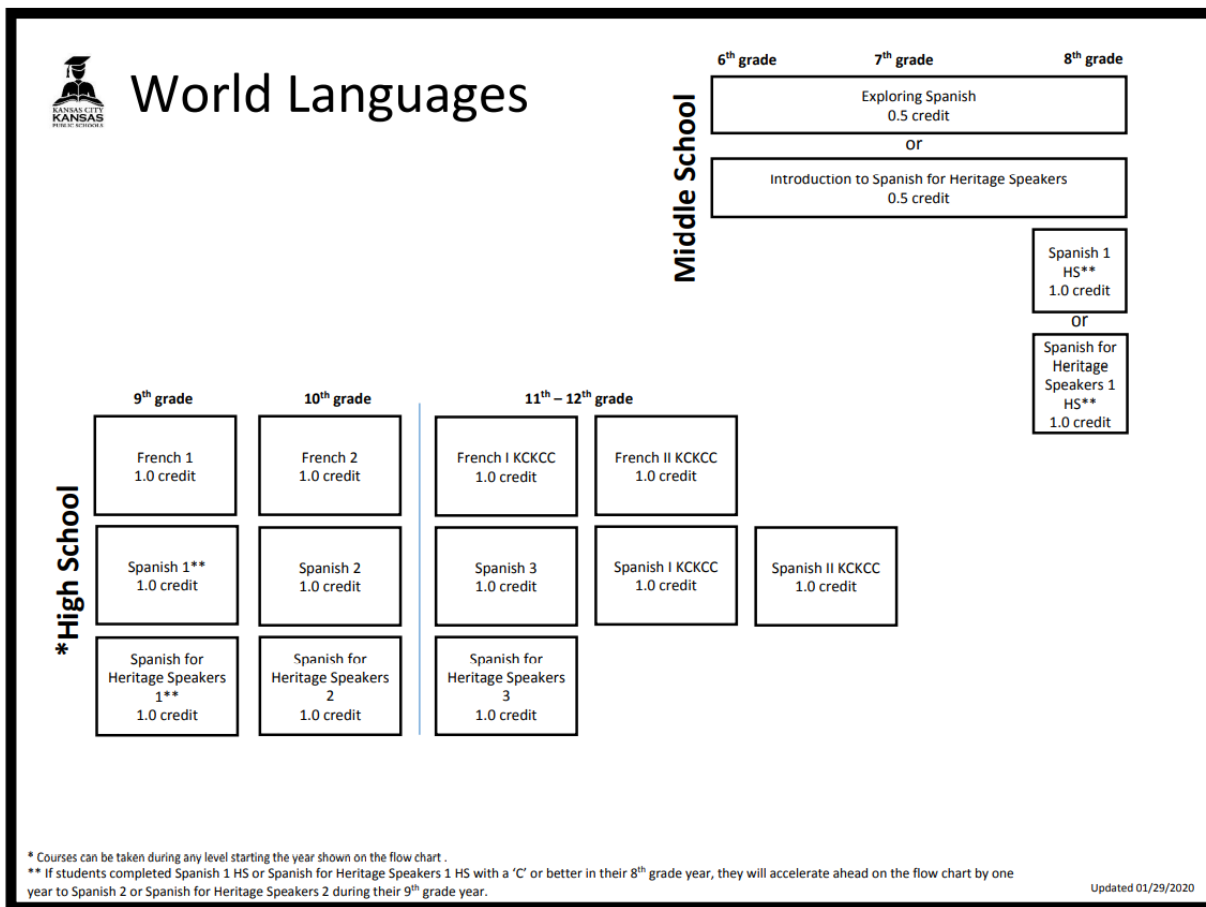
Course #: 10061021  
Credit: Half Year

Credit Type: ELECTIVE  
Grade Level: 6-7

This elective course explores basic computer applications, internet safety, and software development.

## World Language – Middle School

Course Name	Credit Type	Credit	College Credit	Grade	Other Information
Exploring Spanish	World Languages	Half Year	No	6-8	
Introduction Spanish Heritage Speakers MS	World Languages	Half Year	No	6-8	
Spanish 1 HS	World Languages	1.0	No	8	
Spanish Heritage Speakers 1 HS	World Languages	1.0	No	8	Grade 8 ONLY



### Exploring Spanish MS

Course #: 05061003  
Credit: Half Year

Credit Type: World Languages  
Grade Level: 6-8

This course gives the beginning student the vocabulary necessary to communicate on a basic level with Spanish speakers on a variety of familiar subjects such as school, home, activities, etc. The student will learn how to formulate sentences and dialogues through listening, speaking, reading and writing. Cultural activities will accompany language lessons to acquaint students with food, artistic expression, and diversity of the Spanish speaking world.

### Introduction Spanish Heritage Speakers MS

Course #: 05061023  
Credit: Half Year

Credit Type: World Languages  
Grade Level: 6-8

This course is for native Spanish speakers who speak, read and write some Spanish at home, but have limited proficiency in one or more of these areas. Students will develop their reading, speaking, and writing skills in Spanish through exploration, study, and discussion of language structure, cultural and current events, and academic language.

### Spanish 1 HS

Course #: 05072002  
Credit: 1.0

Credit Type: World Languages  
Grade Level: 8

This course is designed to meet the needs and interests of students who have had little or no experience learning a foreign language. This course is an introduction to the basic forms of language usage in grammar. Students build vocabulary, engage in elementary conversations and develop skills in listening, reading strategies and process writing. Students are introduced to the cultures of the countries where the language is spoken. Language is pursued as a live communication tool in all facets of daily life. Successful completion of this course will earn a high school World Language credit.

**Spanish Heritage Speakers 1 HS**

Course #: 05071022

Credit Type: World Languages

Credit: 1.0

Grade Level: 8

This course is for native Spanish speakers who speak, read and write some Spanish at home, but have limited proficiency in one or more of these areas. The course will allow the students to develop linguistic skills in their native language. It will also help students recognize the value of their language and experiences native speakers bring with them into the classroom. It will also point out the value of being bilingual when considering career opportunities. Successful completion of this course will earn a high school World Language credit.

*Additional Electives – Middle School*

Course Name	Credit Type	Credit	College Credit	Grade	Other Information
KS Jobs for Americas Grads – MS	ELECTIVE	Full Year	No	6-8	

**KS Jobs for Americas Grads - MS**

Course #: 19061001

Credit Type: ELECTIVE

Credit: Full Year

Grade Level: 6-8

Available for Carl B Bruce Middle School in the 20-21 School year. Content information available from building administration and JAG teachers.

## High School Credits – Middle School

### High School Credit:

High school credit for successful completion of outcomes shall be based on the grades determined by the student's teachers of record for the courses in which the student is enrolled each semester. High school credit shall be awarded for the letter grades of "A", "B", "C", "D" or "P" if in accordance with an approved Pass/Not Passed option. High school credit shall not be awarded for grades of "F" or "I" for incomplete. With the exception of quarter credit classes, all course credits will be issued on a semester basis.

Each high school shall organize its program on the basis of units of credit. "Unit of credit" means one unit of credit earned for satisfactory completion of any approved subject taught for a minimum of one class period for two semesters or two class periods for one semester. One-half unit of credit shall be earned for approved subjects taught for a minimum of one class period for one semester or two class periods for one quarter.

Course Name	Credit Type	Credit	College Credit	Grade	Other Information
Algebra 1 HS	Math	1.0	No	8	Grade 8 ONLY - See description in Math
Spanish 1 HS	World Languages	1.0	No	8	Grade 8 ONLY - See description in World Languages
Spanish Heritage Speakers 1 HS	World Languages	1.0	No	8	Grade 8 ONLY - See description in World Languages

*Honors – Middle School*

<b>Course Name</b>	<b>Credit Type</b>	<b>Credit</b>	<b>College Credit</b>	<b>Grade</b>	<b>Other Information</b>
Math 6 Honors	Math	Full Year	No	6	See description in Math
Math 7 Honors	Math	Full Year	No	7	See description in Math

## High School Grading Policy

### **IHA – Grading System Policy from School/Parent Handbook**

The purpose of grading shall be to communicate student learning with students and parents/guardians. The communication shall be as such to invite participation within the student’s learning process. Grades shall communicate student learning relative to clearly stated instructional expectations based on the standards of the content. Grades shall be mainly determined by assessments in the form of, but not limited to written tests, essays, science experiments, multimedia presentations, products, performances, works of art, speeches, demonstrations, etc. Daily assignments, class participation, application of skills, etc. can be considered as a portion of the grade.

Report cards for all students shall be sent home and posted in the online gradebook four times a year at the end of a quarter. In addition, progress reports for all students shall be issued at the midpoint of each quarter. Grades shall be updated in the online gradebook each week (approximately 10 per quarter) to keep everyone informed of student progress.

### **Grading Scale:**

All student work is based on standards. Grades cannot be explicitly used for reward or punishment. Grading practices cannot place a student in a situation where he/she is doomed to fail mid-year with no recourse.

Grade Scales-Student performance shall be communicated using the appropriate grade-level scale.

### **The scale for reporting grades in Grades 6 through 12.**

- ❖ A – 90-100%
- ❖ B – 80-89%
- ❖ C – 70-79%
- ❖ D – 60-69%
- ❖ F – 59% or below
- ❖ I – Incomplete

### **High School Credit:**

High school credit for successful completion of outcomes shall be based on the grades determined by the student’s teachers of record for the courses in which the student is enrolled each semester. High school credit shall be awarded for the letter grades of “A”, “B”, “C”, “D” or “P” if in accordance with an approved Pass/Not Passed option. High school credit shall not be awarded for grades of “F” or “I” for incomplete. With the exception of quarter credit classes, all course credits will be issued on a semester basis.

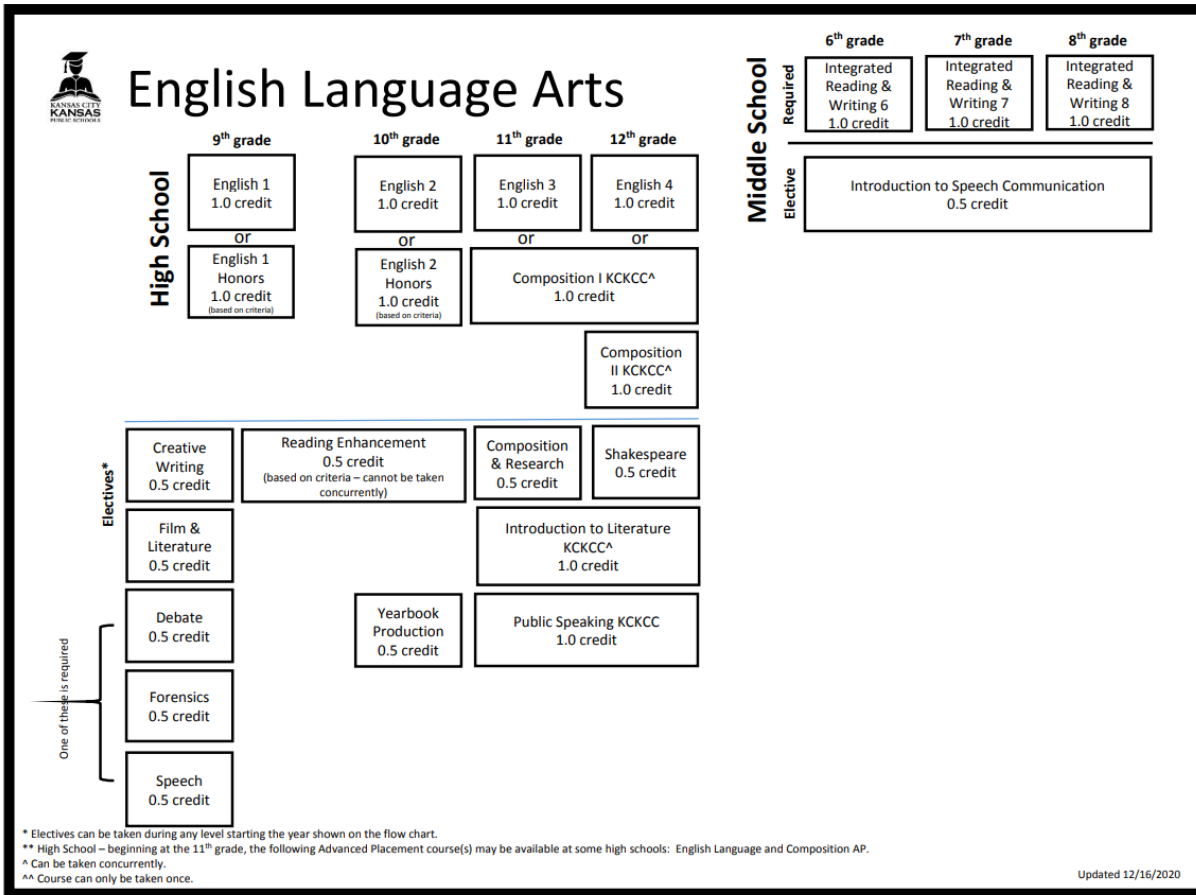
Each high school shall organize its program on the basis of units of credit. “Unit of credit” means one unit of credit earned for satisfactory completion of any approved subject taught for a minimum of one class period for two semesters or two class periods for one semester. One-half unit of credit shall be earned for approved subjects taught for a minimum of one class period for one semester or two class periods for one quarter.



## High School Courses

### English Language Arts – High School

Course Name	Credit Type	Credit	College Credit	Pre/Co-Req	Grade	Other Information
English 1	English	1.0	No	No	9-12	
English 1 Honors	English	1.0	No	No	9-12	
English 2	English	1.0	No	Yes	10-12	
English 2 Honors	English	1.0	No	Yes	10-12	
English 3	English	1.0	No	Yes	11-12	
English 4	English	1.0	No	Yes	11-12	
Composition I KCKCC	English	1.0	Yes	Yes	11-12	
Composition II KCKCC	English	1.0	Yes	Yes	11-12	
Creative Writing	ELECTIVE	0.5	No	No	9-12	
Classic Film & Literature	ELECTIVE	0.5	No	No	9-12	
Debate	ELECTIVE	0.5	No	No	9-12	
Competitive Speech & Debate	ELECTIVE	0.5	No	No	9-12	
Speech	ELECTIVE	0.5	No	No	9-12	
Reading Enhancement	ELECTIVE	0.5	No	No	9-12	
Yearbook Production	ELECTIVE	1.0	No	No	10-12	
Composition & Research	ELECTIVE	0.5	No	No	11-12	
Shakespeare	ELECTIVE	0.5	No	No	11-12	
Introduction to Literature KCKCC	English	1.0	Yes	Yes	11-12	
Public Speaking KCKCC	ELECTIVE	1.0	No	No	11-12	
English 1 Pre-AP	English	1.0	No	No	11-12	Advanced Placement and Pre-AP courses are available for high school students. The exact courses scheduled at a building each school year depend on student interest and instructor availability. See the school counselor for additional information.
English 2 Pre-AP	English	1.0	No	No	11-12	Advanced Placement and Pre-AP courses are available for high school students. The exact courses scheduled at a building each school year depend on student interest and instructor availability. See the school counselor for additional information.
English 3 IBH	English	1.0	No	No	11-12	Sumner Academy ONLY
English 4 IBH	English	1.0	No	No	11-12	Sumner Academy ONLY
English Language & Composition AP	English	1.0	No	No	11-12	Advanced Placement and Pre-AP courses are available for high school students. The exact courses scheduled at a building each school year depend on student interest and instructor availability. See the school counselor for additional information.
English Language & Literature 3 IBH	English	1.0	No	No	11-12	Sumner Academy ONLY
English Language & Literature 4 IBH	English	1.0	No	No	11-12	Sumner Academy ONLY
English Literature & Composition AP	English	1.0	No	No	11-12	Advanced Placement and Pre-AP courses are available for high school students. The exact courses scheduled at a building each school year depend on student interest and instructor availability. See the school counselor for additional information.
Personal/Professional Skills 1 IB	ELECTIVE	1.0	No	No	11-12	
Personal/Professional Skills 2 IB	ELECTIVE	1.0	No	No	11-12	
Research Project IB	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY
Theory of Knowledge 1 IB	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY
Theory of Knowledge 2 IB	ELECTIVE	0.5	No	No	11-12	Sumner Academy ONLY



### English 1

Course #: 01091020  
Credit: 1.0

Credit Type: English  
Grade Level: 9-12

English 1 is a standards-based course focusing on thematic units of study appropriate to grade level 9. The curriculum comprises a variety of literary and informational text, writing for various purposes, speaking and listening, and language skills (e.g., grammar, vocabulary). Students analyze texts for key ideas and details, evaluating the author’s craft and textual structures in order to integrate ideas and details into well-written texts of their own. Students take part in collaborative discussions to develop textual, visual, digital, and media literacies.

### English 1 Honors

Course #: 01091042  
Credit: 1.0

Credit Type: English  
Grade Level: 9-12

English 1 Honors is a standards-based course focusing on thematic units of study as in English 1. The curriculum comprises a variety of literary and informational text, writing for various purposes, speaking and listening, and language skills (e.g., grammar, vocabulary). Students analyze texts for key ideas and details, evaluating the author’s craft and textual structures in order to integrate ideas and details into well written texts of their own. Students take part in collaborative discussions to develop textual, visual, digital, and media literacies. Students should expect varying reading and writing tasks than those assigned in English 1. This course requires more in-depth study of the curriculum. Students should carefully consider the extra time needed for this challenging course.

### English 2

Course #: 01101020  
Credit: 1.0

Credit Type: English  
Grade Level: 10-12

Pre-Req: English 1 or English 1 Honors

English 2 is a standards-based course focusing on thematic units of study appropriate to grade level 10. The curriculum comprises a variety of literary and informational text, writing for various purposes, speaking and listening, and language skills (e.g., grammar, vocabulary). Students analyze texts for key ideas and details, evaluating the author’s craft and textual structures in order to integrate ideas and details into well-written texts of their own. Students take part in collaborative discussions to develop textual, visual, digital, and media literacies.

### English 2 Honors

Course #: 01101042  
Credit: 1.0  
Pre-Req: English 1 or English 1 Honors

Credit Type: English  
Grade Level: 10-12

English 2 Honors is a standards-based course focusing on thematic units of study as in English 2. The curriculum comprises a variety of literary and informational text, writing for various purposes, speaking and listening, and language skills (e.g., grammar, vocabulary). Students analyze texts for key ideas and details, evaluating the author's craft and textual structures in order to integrate ideas and details into well written texts of their own. Students take part in collaborative discussions to develop textual, visual, digital, and media literacies. Students should expect varying reading and writing tasks than those assigned in English 2. This course requires more in-depth study of the curriculum. Students should carefully consider the extra time needed for this challenging course.

### English 3

Course #: 01111020  
Credit: 1.0  
Pre-Req: English 2 or English 2 Honors

Credit Type: English  
Grade Level: 11-12

English 3 is a standards-based course focusing on thematic units of study appropriate to grade level 11. The curriculum comprises a variety of literary and informational text, writing for various purposes, speaking and listening, and language skills (e.g., grammar, vocabulary). Students analyze texts for key ideas and details, evaluating the author's craft and textual structures in order to integrate ideas and details into well-written texts of their own. Students take part in collaborative discussions to develop textual, visual, digital, and media literacies.

### English 4

Course #: 01121020  
Credit: 1.0  
Pre-Req: English 3, Composition I KCKCC, Intro to Literature KCKCC

Credit Type: English  
Grade Level: 11-12

English 4 is a standards-based course, focusing on thematic units of study appropriate to grade level 12. The curriculum comprises a variety of literary and informational text, writing for various purposes, speaking and listening, and language skills (e.g., grammar, vocabulary). Students analyze texts for key ideas and details, evaluating the author's craft and textual structures in order to integrate ideas and details into well-written texts of their own. Students take part in collaborative discussions to develop textual, visual, digital, and media literacies.

### Composition I KCKCC

Course #: 01109021  
Credit: 1.0  
Pre-Req: English 2, KCKCC admission, & appropriate Accuplacer scores

Credit Type: English  
Grade Level: 11-12

This is the high school course for KCKCC ENGL-0101 - Composition I, 3 credit hours KCKCC Description: Composition 101 is the first of two required composition courses. It is designed to help students achieve language proficiency and write paragraphs and essays which demonstrate unity, coherence, and levels of usage appropriate to the topic, purpose, and audience. Pre-requisites: Accuplacer Score of 255+ on Reading AND Writing or ACT English Score of 18+.

### Composition II KCKCC

Course #: 01119011  
Credit: 1.0  
Pre-Req: Composition I KCKCC

Credit Type: English  
Grade Level: 11-12

This is the high school course for KCKCC ENGL-0102 - Composition II, 3 credit hours KCKCC Description: Composition 102 is the second of two required composition courses. A continuation of ENGL-0101, Composition I, this course emphasizes research, bibliographic, and writing skills. Students write a minimum of four (4) graded documented essays in MLA format. Pre-requisites: Completion of Composition I, Engl 0101 w/ grade C or higher. (Rev. Feb 2020; <https://www.kckcc.edu/files/docs/academics/catalog/2018-2019/course-descriptions.pdf>)

### Debate

Course #: 01095011  
Credit: 0.5

Credit Type: English  
Grade Level: 9-12

This fall semester course is designed to support students to prepare and perform in debate competitions. This course offers students the opportunity to learn how to use oral skills in formal and informal situations. Students will be able to develop such skills as logic and reasoning, research and analysis, organization of thought and supporting materials, argumentative style and skill, and effective presentation of one's voice and body. This course introduces students to the methods, aims, and styles used in various kinds of debates. Students are expected to participate in at least four interscholastic tournaments. Tournaments take place outside of the regular school day and may include weekends.

### Competitive Speech & Debate

Course #: 01095061  
Credit: 0.5

Credit Type: English  
Grade Level: 9-12

This spring semester course is designed to help students prepare and perform in public speaking, acting, and/or debate competitions. Students will learn skills such as oral interpretation of literature, logic and reasoning, the organization of thought and supporting materials, and effective presentation of one's voice and body. The student is expected to participate in at least two of the above-mentioned areas in at least three Friday/Saturday interscholastic tournaments/competitions.

### Speech

Course #: 01093001  
Credit: 0.5

Credit Type: English  
Grade Level: 9-12

This semester course examines speech situations relevant to a high school student. Detailed work on research, outlining, and organization are covered in this course. Basic research and techniques of effective delivery are developed through various types of speeches. Thinking, language, bodily action and voice are studied to increase proficiency and the development of logical reasoning. The student studies the prime factors in speech-making: the speaker, the audience, the development of the subject, and the choice of language. Activities help the student overcome inhibitions and achieve a style of speaking which is correct, effective, and as natural as possible.

### Reading Enhancement

Course #: 01097042  
Credit: 0.5

Credit Type: **ELECTIVE**  
Grade Level: 9-12

Reading Enhancement courses offer students the opportunity to improve their reading comprehension, writing, and critical thinking with disciplinary texts. Assistance is targeted to students' individual strengths and weaknesses and is designed to bring students reading comprehension up to grade level and to develop strategies to read, write, and think more effectively in all content areas.

### Introduction to Literature KCKCC

Course #: 01102033  
Credit: 1.0

Credit Type: English  
Grade Level: 11-12

Pre-Req: English 2, KCKCC admission, & appropriate Accuplacer scores

This is the high school course for KCKCC ENGL-0104 - Introduction to Literature, 3 credit hours KCKCC Description: Introduction to Literature explores the literary elements of the short story, poem, novel, play, and essay. As students read and discuss representative works by well-known authors, they will form baseline knowledge regarding a writer's style and the distinctive features of different genres. Moreover, students will come to understand their own literary preferences while developing an appreciation for quality literature. Pre-requisites: Accuplacer Score of 255+ on Reading AND Writing or ACT English Score of 18+. (Rev. Feb 2020; <https://www.kckcc.edu/files/docs/academics/catalog/2018-2019/course-descriptions.pdf>)

### English 1 Pre-AP

Course #: 01091055  
Credit: 1.0

Credit Type: English  
Grade Level: 9-12

(Advanced Placement and Pre-AP courses are available for high school students. The exact courses scheduled at a building each school year depend on student interest and instructor availability. See the school counselor for additional information.) English 1 is a standards-based course focusing on thematic units of study appropriate to grade level 9. The curriculum comprises a variety of literary and informational text, writing for various purposes, speaking and listening, and language skills (e.g., grammar, vocabulary). Students analyze texts for key ideas and details, evaluating the author's craft and textual structures in order to integrate ideas and details into well-written texts of their own. Students take part in collaborative discussions to develop textual, visual, digital, and media literacies.

### English 2 Pre-AP

Course #: 01101055  
Credit: 1.0

Credit Type: English  
Grade Level: 10-12

(Advanced Placement and Pre-AP courses are available for high school students. The exact courses scheduled at a building each school year depend on student interest and instructor availability. See the school counselor for additional information.) English 2 is a standards-based course focusing on thematic units of study appropriate to grade level 10. The curriculum comprises a variety of literary and informational text, writing for various purposes, speaking and listening, and language skills (e.g., grammar, vocabulary). Students analyze texts for key ideas and details, evaluating the author's craft and textual structures in order to integrate ideas and details into well-written texts of their own. Students take part in collaborative discussions to develop textual, visual, digital, and media literacies.

### English 3 IBH

Course #: 01141002  
Credit: 1.0

Credit Type: English  
Grade Level: 11-12

(Sumner Academy ONLY) IB Language A (English) courses prepare students to take the International Baccalaureate Language A exams at either the Subsidiary or Higher level. Course content includes in-depth study of literature chosen from the appropriate IB list of texts and authors and written analyses of this literature in addition to other oral and written assignments. All course content is designed to improve students accuracy and fluency in the English language.

#### English 4 IBH

Course #: 01141012  
Credit: 1.0

Credit Type: English  
Grade Level: 11-12

(Sumner Academy ONLY) IB Language A (English) courses prepare students to take the International Baccalaureate Language A exams at either the Subsidiary or Higher level. Course content includes in-depth study of literature chosen from the appropriate IB list of texts and authors and written analyses of this literature in addition to other oral and written assignments. All course content is designed to improve student's accuracy and fluency in the English language.

#### English Language & Composition AP

Course #: 01111402  
Credit: 1.0

Credit Type: English  
Grade Level: 11-12

(Advanced Placement and Pre-AP courses are available for high school students. The exact courses scheduled at a building each school year depend on student interest and instructor availability. See the school counselor for additional information.) The AP English Language and Composition course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods.

#### English Language & Literature 3 IBH

Course #: 01141022  
Credit: 1.0

Credit Type: English  
Grade Level: 11-12

(Sumner Academy ONLY) The language and literature course introduces the critical study and interpretation of written and spoken texts from a wide range of literary forms and non-literary text-types. The formal analysis of texts is supplemented by awareness that meaning is not fixed but can change in respect to contexts of production and consumption. This course is organized into three areas of exploration and several central concepts, and focuses on the study of both literary or non-literary texts. Together, the three areas of exploration of the course allow the student to explore the language in question through its cultural development and use, its media forms and functions, and its literature. Students develop skills of literary and textual analysis, and also the ability to present their ideas effectively. A key aim is the development of critical literacy.

#### English Language & Literature 4 IBH

Course #: 01141032  
Credit: 1.0

Credit Type: English  
Grade Level: 11-12

(Sumner Academy ONLY) The language and literature course introduces the critical study and interpretation of written and spoken texts from a wide range of literary forms and non-literary text-types. The formal analysis of texts is supplemented by awareness that meaning is not fixed but can change in respect to contexts of production and consumption. This course is organized into three areas of exploration and several central concepts, and focuses on the study of both literary or non-literary texts. Together, the three areas of exploration of the course allow the student to explore the language in question through its cultural development and use, its media forms and functions, and its literature. Students develop skills of literary and textual analysis, and also the ability to present their ideas effectively. A key aim is the development of critical literacy.

#### English Literature & Composition AP

Course #: 01111406  
Credit: 1.0

Credit Type: English  
Grade Level: 11-12

(Advanced Placement and Pre-AP courses are available for high school students. The exact courses scheduled at a building each school year depend on student interest and instructor availability. See the school counselor for additional information.) AP English Literature and Composition is an introductory college-level literary analysis course. Students cultivate their understanding of literature through reading and analyzing texts as they explore concepts like character, setting, structure, perspective, figurative language, and literary analysis in the context of literary works. (Rev. Jan. 2020)

#### Personal/Professional Skills 1 IB

Course #: 01147022  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Sumner Academy ONLY) Personal and Professional Skills is designed for students to develop attitudes, skills and strategies to be applied to personal and professional situations and contexts now and in the future. In this course, the emphasis is on skill development for the workplace, as these skills are transferable and can be applied in a range of situations. (IBO.org) Themes such as the thinking processes, intercultural understanding, effective communication, personal development, and applied ethics will be covered in this 3-semester course. The following 3 aspects of the CORE are monitored during the PPS class and are part of the completion requirements for the CP program. A separate "research project" half credit is earned first semester of senior year for the successful Reflective Project completion.

#### Personal/Professional Skills 2 IB

Course #: 01147024  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Sumner Academy ONLY) PPS is designed for students to develop attitudes, skills and strategies to be applied to personal and professional situations and contexts now and in the future. In this course, the emphasis is on skill development for the workplace, as these skills are transferable and can be applied in a range of situations. (IBO.org) Themes such as the thinking processes, intercultural understanding, effective communication, personal development, and applied ethics will be covered in this 3-semester course. The following 3 aspects of the CORE are monitored during the PPS class and are part of the completion requirements for the CP program. A separate "research project" half credit is earned first semester of senior year for the successful Reflective Project completion.

#### Creative Writing

Course #: 01113001  
Credit: 0.5

Credit Type: **ELECTIVE**  
Grade Level: 9-12

Creative Writing offers students the opportunity to develop and improve their technique and individual style in poetry, short story, drama, and other forms of prose. The emphasis of the course is on writing; however, students may study exemplary representations and authors to obtain a fuller appreciation of the form and craft. This course may cover several expressive forms, or concentrate exclusively on one particular form (such as poetry or playwriting). This semester-course focuses on the process and products of creative writing. In this class, students will examine models of writing, including exemplary representations and authors, and they will create their own original pieces in various genres, including poetry, short stories, essays, dramas and other modes. This course may cover several expressive forms, or concentrate exclusively on one particular form (such as poetry or playwriting).

#### Classic Film & Literature

Course #: 011290512  
Credit: 0.5

Credit Type: **ELECTIVE**  
Grade Level: 9-12

This half credit semester-course focuses on four objectives: to familiarize students with film genres, terminology, and techniques; to analyze film through literary modes; to sharpen critical analysis of all aspects of film; and to instill an appreciation of film as a cultural medium and an art form, not just entertainment. Students will examine works presented in two different media to gain insight and understanding into the workings of those media, including their biases and their strengths.

#### Yearbook Production

Course #: 01106012  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 10-12

This course is designed to develop students' skills in yearbook production by providing experiences in selected aspects of yearbook production. Students learn basic principles of yearbook production and develop skills that include writing copy, captions and headlines; digital photography; desktop publishing and using appropriate technology tools for media production. Yearbook Production supports student's development as writers, photographers, editors, independent users of technology, and overall responsible contributing members of their school community.

#### Composition & Research

Course #: 01119001  
Credit: 0.5

Credit Type: **ELECTIVE**  
Grade Level: 11-12

Composition and Research involves a refinement of composition skills with special focus on those skills necessary to conduct a successful research project or Senior Exhibition. Students should be scheduled in sections according to their selected graduation paths. Students will select and narrow a topic relating to their chosen graduation paths, create a working bibliography, evidence from a variety of sources, develop note cards, organize their note cards to create an outline, develop a thesis, write an effective introduction and conclusion, use appropriate (according to area of study) documentation in the MLA, APA, or other format, write an effective body, include a bibliography of works cited, and produce a quality final product. The course also introduces students to a variety of on-line services and databases to assist in research and writing. (Note: Students will be exposed to Chicago style citations, but MLA and APA citation style(s) are emphasized.)

#### Shakespeare

Course #: 01129021  
Credit: 0.5

Credit Type: **ELECTIVE**  
Grade Level: 11-12

Shakespeare explores the life and time of Shakespeare and his plays. Students will read a variety of his plays and examine the language, playhouses, and beliefs of the Elizabethan era. Students will exchange points of view as they work together to develop understanding of selected plays in the genres of romantic comedy, history, mixed-genre, tragedy, and romance. Students will explore the social, political, and formal issues that these texts represent, and consider Shakespeare's development as a playwright.

#### Public Speaking KCKCC

Course #: 01113042  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

This is the high school course for KCKCC SPCH-0151 - Public Speaking, 3 credit hours KCKCC Description: This is a basic speech course dealing with the oral communication process through the study of public speaking. Students will learn to select topics, analyze their audience, organize and gather support for a speech, improve delivery skills and reduce communication apprehension, listen for information and evaluation purposes, and distinguish between different types of speeches. Each student will develop and deliver a minimum of four speeches during the course. Pre-requisites: Accuplacer Score of 255+ on Reading AND Writing or ACT English Score of 18. (Rev. Feb 2020; <https://www.kckcc.edu/files/docs/academics/catalog/2018-2019/course-descriptions.pdf>)

#### Research Project IB

Course #: 01147011  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Summer Academy ONLY) Research/Technical Writing classes prepare students to write research papers and/or technical reports. These classes emphasize researching (primary and secondary sources), organizing (material, thoughts, and arguments), and writing in a persuasive or technical style.

#### Theory of Knowledge 1 IB

Course #: 01147012  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

Theory of Knowledge I is designed to encourage students to integrate knowledge from various academic disciplines by looking at their interrelationship. Students also reflect upon previously acquired knowledge and explore the questions "What do I know?" and "How do I know it?" by looking at how opinions and beliefs compare and contrast to faith, truth and knowledge. In addition, students are asked to analyze moral and political issues as well as aesthetic values and judgements.

#### Theory of Knowledge 2 IB

Course #: 01147014  
Credit: 0.5

Credit Type: **ELECTIVE**  
Grade Level: 11-12

Theory of Knowledge II is a continuation of the first in terms of content and objectives. Students will be guided to: critically analyze knowledge claims; demonstrate understanding of differing perspectives on knowledge issues; clearly communicate their supported personal responses to knowledge issues. They will read articles on a variety of topics and discuss or write their reactions and analyses. They will prepare for and deliver the IB oral assessment and write the IB essay assessment. They will discuss and write about their CAS volunteer experiences. During the first semester they will also spend time working on their extended essays.

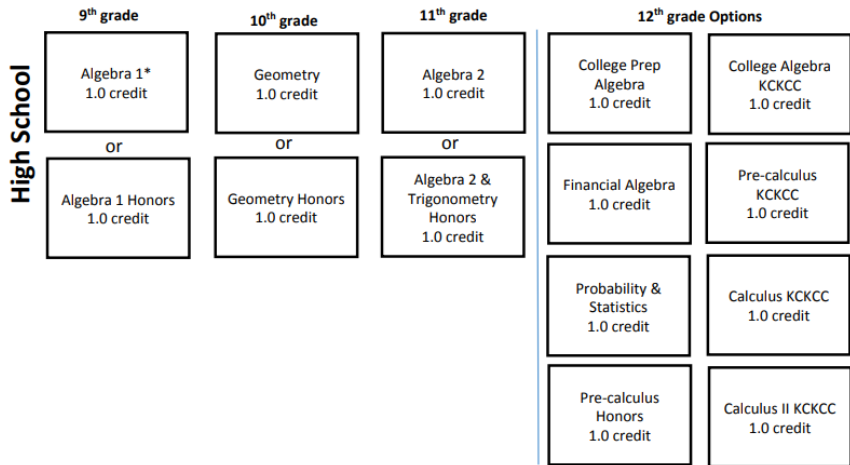
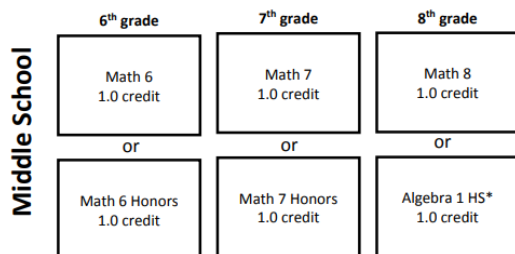
## Mathematics – High School

Course Name	Credit Type	Credit	College Credit	Pre/Co-Req	Grade	Other Information
Algebra 1	Math	1.0	No	No	9-12	
Algebra 1 Honors	Math	1.0	No	No	9-12	
Geometry	Math	1.0	No	Yes	9-12	
Geometry Honors	Math	1.0	No	Yes	9-12	
Algebra 2	Math	1.0	No	Yes	10-12	
Algebra 2/Trigonometry Honors	Math	1.0	No	Yes	10-12	
College Prep Algebra	Math	1.0	No	Yes	11-12	
Financial Algebra	Math	1.0	No	Yes	11-12	
Probability & Statistics	Math	1.0	No	Yes	11-12	
Pre-calculus Honors	Math	1.0	No	Yes	11-12	
College Algebra KCKCC	Math	1.0	Yes	Yes	11-12	
Pre-calculus KCKCC	Math	1.0	Yes	Yes	11-12	
Calculus KCKCC	Math	1.0	Yes	Yes	11-12	
Calculus II KCKCC	Math	1.0	Yes	Yes	11-12	
Statistics AP	Math	1.0	No	No	11-12	Advanced Placement and Pre-AP courses are available for high school students. The exact courses scheduled at a building each school year depend on student interest and instructor availability. See the school counselor for additional information.
Statistics KCKCC	Math	1.0	Yes	No	11-12	
Transition to College Algebra	Math	1.0	No	No	11-12	
Trigonometry KCKCC	Math	1.0	Yes	No	11-12	
Math Analysis & Approach 1 IBH	Math	1.0	No	No	11-12	Sumner Academy ONLY
Math Analysis & Approach 1 IBS	Math	1.0	No	No	11-12	Sumner Academy ONLY
Math Analysis & Approach 2 IBH	Math	1.0	No	No	11-12	Sumner Academy ONLY
Math Analysis & Approach 2 IBS	Math	1.0	No	No	11-12	Sumner Academy ONLY
Math Applications & Interpretation 1 IBH	Math	1.0	No	No	11-12	Sumner Academy ONLY
Math Applications & Interpretation 1 IBS	Math	1.0	No	No	11-12	Sumner Academy ONLY
Math Applications & Interpretation 2 IBH	Math	1.0	No	No	11-12	Sumner Academy ONLY
Math Application & Interpretation 2 IBS	Math	1.0	No	No	11-12	Sumner Academy ONLY





# Mathematics



\* If students completed Algebra 1 HS with a 'C' or better in their 8<sup>th</sup> grade year, they will accelerate ahead on the flow chart by one year to Geometry or Geometry Honors during their 9<sup>th</sup> grade year.  
 \*\* High School – beginning in 11<sup>th</sup> grade, the following Advanced Placement course(s) may be available at some high schools: Statistics AP.  
 --High School – beginning in 11<sup>th</sup> grade, Transition to College Algebra (1.0 credit – based on criteria) may be available at some schools.

Updated 01/29/2020

## Algebra 1

Course #: 02091920  
Credit: 1.0

Credit Type: Math  
Grade Level: 9-12

The critical areas in Algebra 1 deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend. Students engage in methods for analyzing, solving, and using quadratic functions. Algebra 1 is a high school level course and is also available to all 8<sup>th</sup> grade students based on the recommendation of the 7<sup>th</sup> grade math teacher or successful completion of Math 7 Honors.

## Algebra 1 Honors

Course #: 02091030  
Credit: 1.0

Credit Type: Math  
Grade Level: 9-12

Algebra 1 Honors is available for students seeking to be academically challenged upon entering high school. The course expands and enriches upon the critical content of Algebra 1.

## Geometry

Course #: 02101940  
Credit: 1.0

Credit Type: Math  
Grade Level: 9-12

Pre-Req: Algebra 1 or Algebra 1 Honors

Geometry is available to students after completing either Algebra 1 or Algebra 1 Honors in either 8<sup>th</sup> or 9<sup>th</sup> Grade. The purpose of the course is to formalize and extend students' geometric experiences from the middle grades through geometric and algebraic thinking. The main foci are: exploring and deepening geometric relationships through arguments; building a formal understanding of similarity; constructing arguments based on properties and theorems; examining the coordinate system and its relationship to 8<sup>th</sup> grade topics; and applying geometric concepts in modeling situations.

## Geometry Honors

Course #: 02092026  
Credit: 1.0  
Pre-Req: Algebra 1 or Algebra 1 Honors

Credit Type: Math  
Grade Level: 9-12

Geometry Honors is available for students seeking to be challenged academically that have completed either Algebra 1 or Algebra 1 Honors. The course expands and enriches upon the critical content of Geometry.

### Algebra 2

Course #: 02101040  
Credit: 1.0  
Pre-Req: Geometry or Geometry Honors

Credit Type: Math  
Grade Level: 10-12

Algebra 2 is available to students after completing either Geometry or Geometry Honors. Building on work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions and continue to expand and hone their abilities to model situations and solve equations, including quadratic equations, over the set of complex numbers and solving exponential equations using the properties of logarithms.

### Algebra 2/Trigonometry Honors

Course #: 02102240  
Credit: 1.0  
Pre-Req: Geometry or Geometry Honors

Credit Type: Math  
Grade Level: 10-12

Algebra 2 & Trigonometry Honors is available for students seeking to be challenged academically that have completed Geometry or Geometry Honors. The course expands and enriches upon the critical content of Algebra 2. The course also emphasizes work with trigonometric ratios, functions, and graphs.

### College Prep Algebra

Course #: 021116060  
Credit: 1.0  
Pre-Req: Algebra 2 or Algebra 2 & Trigonometry Honors

Credit Type: Math  
Grade Level: 11-12

College Prep Algebra is available for students after completing either Algebra 2 or Algebra 2 & Trigonometry Honors. The purpose of this course is to prepare students to be successful in College Algebra. Instruction emphasizes a more in depth look at quadratic and polynomial equations with real and complex solutions, exponential and logarithmic equations and functions, and rational expressions. Other topics include transformations, sequences and series, conics, and trigonometry.

### Financial Algebra

Course #: 02111040  
Credit: 1.0  
Pre-Req: Algebra 2 or Algebra 2 & Trigonometry Honors

Credit Type: Math  
Grade Level: 11-12

Financial Algebra is available for students after completing two credits of mathematics. The course is designed to develop a strong foundation in logical thinking and problem solving that will enable students to make informed decisions regarding matters of money and finance in their daily lives. This course furthers the development of various functions, representations of data, principles of business and personal finance and basics economics.

### Probability & Statistics

Course #: 02113030  
Credit: 1.0  
Pre-Req: Algebra 2 or Algebra 2 & Trigonometry Honors

Credit Type: Math  
Grade Level: 11-12

Probability and Statistics is available for students after completing two credits of mathematics. The purpose of this course is to introduce students to real-life examples of counting methods, probability, descriptive statistics, graphs of data, the normal curve, statistical inference, and linear regression. The course focuses on the use of statistics in context in various professional pathways.

### Pre-calculus Honors

Course #: 02123202  
Credit: 1.0  
Pre-Req: Algebra 2 or Algebra 2 & Trigonometry Honors

Credit Type: Math  
Grade Level: 11-12

Pre-calculus Honors is available to students after completing either Algebra 2 or Algebra 2 & Trigonometry Honors. The purpose of the course is to challenge students academically, while also providing the instructional supports found in a traditional high school classroom and not a college-style course. Instruction emphasizes algebraic and graphical analysis with transformations, the study of continuity, rational, logarithmic and exponential functions, trigonometric functions and circular relations, conics, sequences and series, limits, parametrics, and vectors.

**College Algebra KCKCC**

Course #: 02111060

Credit Type: Math

Credit: 1.0

Grade Level: 11-12

Pre-Req: Course is available to juniors and seniors with KCKCC admission &amp; appropriate Accuplacer scores.

This is the high school course for KCKCC MATH-0105 - College Algebra, 5 credit hours KCKCC Description: College Algebra includes a brief review of Intermediate Algebra; analysis and graphing of functions, including constant, linear, absolute value, square root, polynomial, rational, exponential and logarithmic functions and non-functions; and solving equations and inequalities, including polynomial equations, exponential equations, logarithmic equations, and systems of linear equations and inequalities. Students will be expected to use appropriate technology as one tool to achieve competency in College Algebra. A graphing calculator is required for this course. Pre-requisites: Accuplacer score of 263+ on Math test (Rev. Feb 2020; <https://www.kckcc.edu/files/docs/academics/catalog/2018-2019/course-descriptions.pdf>)

**Pre-calculus KCKCC**

Course #: 02123202

Credit Type: Math

Credit: 1.0

Grade Level: 11-12

Pre-Req: Course is available to juniors and seniors with KCKCC admission &amp; appropriate Accuplacer scores.

This is the high school course for KCKCC MATH-0108 - Pre-Calculus, 5 credit hours KCKCC Description: Pre-Calculus includes the analysis and graphing of functions, including constant, linear, absolute value, square root, polynomial, rational, exponential and logarithmic functions, non-functions and trigonometric functions; solving equations and inequalities, including polynomial equations, exponential equations, logarithmic equations, trigonometric equations, systems of linear equations and inequalities; trigonometric and inverse trigonometric functions, radian and degree measure, identities, and applications to physical problems; conic sections; and sequences and series. A graphing calculator is required for this course. Pre-requisites: Grade of C or higher in MATH-0106 College Algebra (Rev. Feb 2020; <https://www.kckcc.edu/files/docs/academics/catalog/2018-2019/course-descriptions.pdf>)

**Calculus KCKCC**

Course #: 02123010

Credit Type: Math

Credit: 1.0

Grade Level: 11-12

Pre-Req: Course is available to juniors and seniors with KCKCC admission &amp; appropriate Accuplacer scores.

This is the high school course for KCKCC MATH-0122 - Calculus and Analytic Geometry I, 5 credit hours KCKCC Description: Calculus I is designed for students in mathematics, hard sciences, and engineering. Content includes limits and their properties, differentiation and its applications, integration, and calculus of exponential and logarithmic functions. Students will be expected to use appropriate technology as one tool to achieve competency in Calculus I. A graphing calculator is required for this course. Pre-requisites: Grade of C or higher in MATH-0108 Pre-Calculus (Rev. Feb 2020; <https://www.kckcc.edu/files/docs/academics/catalog/2018-2019/course-descriptions.pdf>)

**Calculus II KCKCC**

Course #: 02123016

Credit Type: Math

Credit: 1.0

Grade Level: 11-12

Pre-Req: Calculus KCKCC

This is the high school course for KCKCC MATH-0123 - Calculus and Analytic Geometry II, 5 credit hours KCKCC Description: Calculus & Analytic Geometry II is designed for students in mathematics, hard sciences, and engineering. Content includes calculus of transcendental functions, differential equations, applications of integration, integration techniques, infinite series, conic sections, and parametric and polar equations. Students will be expected to use appropriate technology as one tool to achieve competency in Calculus and Analytic Geometry II. A graphing calculator is required for this course. Pre-requisites: Grade of C or higher in MATH-0122 Calculus & Analytic Geometry I (Rev. Feb 2020; <https://www.kckcc.edu/files/docs/academics/catalog/2018-2019/course-descriptions.pdf>)

**Transition to College Algebra**

Course #: 02120102

Credit Type: Math

Credit: 1.0

Grade Level: 11-12

Transition to College Algebra (TCA) is available to students after completing Algebra 2. TCA is a specialized course from KSDE. The purpose of this course is to prepare students for success in their future study of college mathematics. Topics covered include, number sense, statistics and probability, algebraic problem solving, proportional reasoning (linear functions), and non-linear functions. For each topic, the course accesses students' prior knowledge and then asks them to apply their understandings to solve real-world problems. As part of the problem-solving process, students develop their quantitative literacy skills by communicating their mathematical thinking verbally, in writing, and by using models.

**Trigonometry KCKCC**

Course #: 02112325

Credit Type: Math

Credit: 1.0

Grade Level: 11-12

Course Description here

**Statistics AP**

Course #: 02113050  
Credit: 1.0

Credit Type: Math  
Grade Level: 11-12

(Advanced Placement and Pre-AP courses are available for high school students. The exact courses scheduled at a building each school year depend on student interest and instructor availability. See the school counselor for additional information.) Statistics AP is available to students after completing either College Algebra KCKCC, Pre-calculus KCKCC or Pre-calculus Honors. Statistics AP follows the College Board standards and pacing for the course. The topics for Statistics AP are divided into four major themes: exploratory analysis, planning a study, probability, and statistical inference. Exploratory analysis of data makes use of graphical and numerical techniques to study patterns and departures from patterns.

**Statistics KCKCC**

Course #: 02114001  
Credit: 1.0

Credit Type: Math  
Grade Level: 11-12

Statistics includes the study of basic descriptive statistics, introduction to probability, random variables, special probability functions, random sampling and sampling theory, estimating the mean, hypothesis tests, and linear regression. Students will be expected to use appropriate technology as one tool to achieve competency in Statistics.

**Math Applications & Interpretation 1 IBH**

Course #: 02151102  
Credit: 1.0

Credit Type: Math  
Grade Level: 11-12

(Sumner Academy ONLY) Mathematical Applications and Interpretation I IBH is the first of a two-year math course offered by IB. This course covers three of the five major topics (Number and Algebra, Functions, and Geometry and Trigonometry) and includes an introductory mathematical exploration piece. This course is appropriate for students who are interested in developing their mathematics for describing our world and solving practical problems. They will also be interested in harnessing the power of technology alongside exploring mathematical models. Students who take this course will be those who enjoy mathematics best when seen in a practical context. This course is aimed at students who will go on to study subject such as social sciences, natural sciences, statistics, business, some economics, psychology, and design, for example.

**Math Applications & Interpretation 1 IBS**

Course #: 02141102  
Credit: 1.0

Credit Type: Math  
Grade Level: 11-12

(Sumner Academy ONLY) Mathematical Applications and Interpretation I IBS is the first of a two-year math course offered by IB. This course covers three of the five major topics (Number and Algebra, Functions, and Geometry and Trigonometry) and includes an introductory mathematical exploration piece. This course is appropriate for students who are interested in developing their mathematics for describing our world and solving practical problems. They will also be interested in harnessing the power of technology alongside exploring mathematical models. Students who take this course will be those who enjoy mathematics best when seen in a practical context. This course is aimed at students who will go on to study subject such as social sciences, natural sciences, statistics, business, some economics, psychology, and design.

**Math Applications & Interpretation 2 IBH**

Course #: 02151202  
Credit: 1.0

Credit Type: Math  
Grade Level: 11-12

(Sumner Academy ONLY) Mathematical Applications and Interpretation II IBH is the second of a two-year math course offered by IB. This course covers the last two of the five major topics (Probability and Statistics, and Calculus) and includes a mathematical exploration project. This course is appropriate for students who are interested in developing their mathematics for describing our world and solving practical problems. They will also be interested in harnessing the power of technology alongside exploring mathematical models. Students who take this course will be those who enjoy mathematics best when seen in a practical context. This course is aimed at students who will go on to study subject such as social sciences, natural sciences, statistics, business, some economics, psychology, and design, for example.

**Math Applications & Interpretation 2 IBS**

Course #: 02141202  
Credit: 1.0

Credit Type: Math  
Grade Level: 11-12

(Sumner Academy ONLY) Mathematical Analysis and Approaches II IBS is the second of a two-year math course offered by IB. This course covers the last two of the five major topics (Probability and Statistics, and Calculus) and includes a mathematical exploration project. This course is appropriate for students who enjoy developing their mathematics to become fluent in the construction of mathematical arguments and develop strong skills in mathematical thinking. They will also be fascinated by exploring real and abstract applications of these ideas, with and without the use of technology. Students who take Mathematics: Analysis and Approaches will be those who enjoy the thrill of mathematical problem solving and generalization. This subject is aimed at students who will go on to study subjects with substantial mathematics content such as medicine, engineering, physical sciences, mathematics, or economics.

**Math Analysis & Approach 1 IBH**

Course #: 02151104  
Credit: 1.0

Credit Type: Math  
Grade Level: 11-12

(Sumner Academy ONLY) Mathematical Analysis and Approaches I IBH is the first of a two-year math course offered by IB. This course covers three of the five major topics (Number and Algebra, Functions, and Geometry and Trigonometry) and includes an introductory mathematical exploration piece. This course is appropriate for students who enjoy developing their mathematics to become fluent in the construction of mathematical arguments and develop strong skills in mathematical thinking. They will also be fascinated by exploring real and abstract applications of these ideas, with and without the use of technology. Students who take Mathematics: Analysis and Approaches will be those who enjoy the thrill of mathematical problem solving and generalization. This subject is aimed at students who will go on to study subjects with substantial mathematics content such as medicine, engineering, physical sciences, mathematics, or economics.

**Math Analysis & Approach 1 IBS**

Course #: 02141104  
Credit: 1.0

Credit Type: Math  
Grade Level: 11-12

(Sumner Academy ONLY) Mathematical Analysis and Approaches I IBS is the first of a two-year math course offered by IB. This course covers three of the five major topics (Number and Algebra, Functions, and Geometry and Trigonometry) and includes an introductory mathematical exploration piece. This course is appropriate for students who enjoy developing their mathematics to become fluent in the construction of mathematical arguments and develop strong skills in mathematical thinking. They will also be fascinated by exploring real and abstract applications of these ideas, with and without the use of technology. Students who take Mathematics: Analysis and Approaches will be those who enjoy the thrill of mathematical problem solving and generalization. This subject is aimed at students who will go on to study subjects with substantial mathematics content such as medicine, engineering, physical sciences, mathematics, or economics.

**Math Analysis & Approach 2 IBH**

Course #: 02151204  
Credit: 1.0

Credit Type: Math  
Grade Level: 11-12

(Sumner Academy ONLY) Mathematical Analysis and Approaches II IBH is the second of a two-year math course offered by IB. This course covers the last two of the five major topics (Probability and Statistics, and Calculus) and includes a mathematical exploration project. This course is appropriate for students who enjoy developing their mathematics to become fluent in the construction of mathematical arguments and develop strong skills in mathematical thinking. They will also be fascinated by exploring real and abstract applications of these ideas, with and without the use of technology. Students who take Mathematics: Analysis and Approaches will be those who enjoy the thrill of mathematical problem solving and generalization. This subject is aimed at students who will go on to study subjects with substantial mathematics content such as medicine, engineering, physical sciences, mathematics, or economics.

**Math Analysis & Approach 2 IBS**

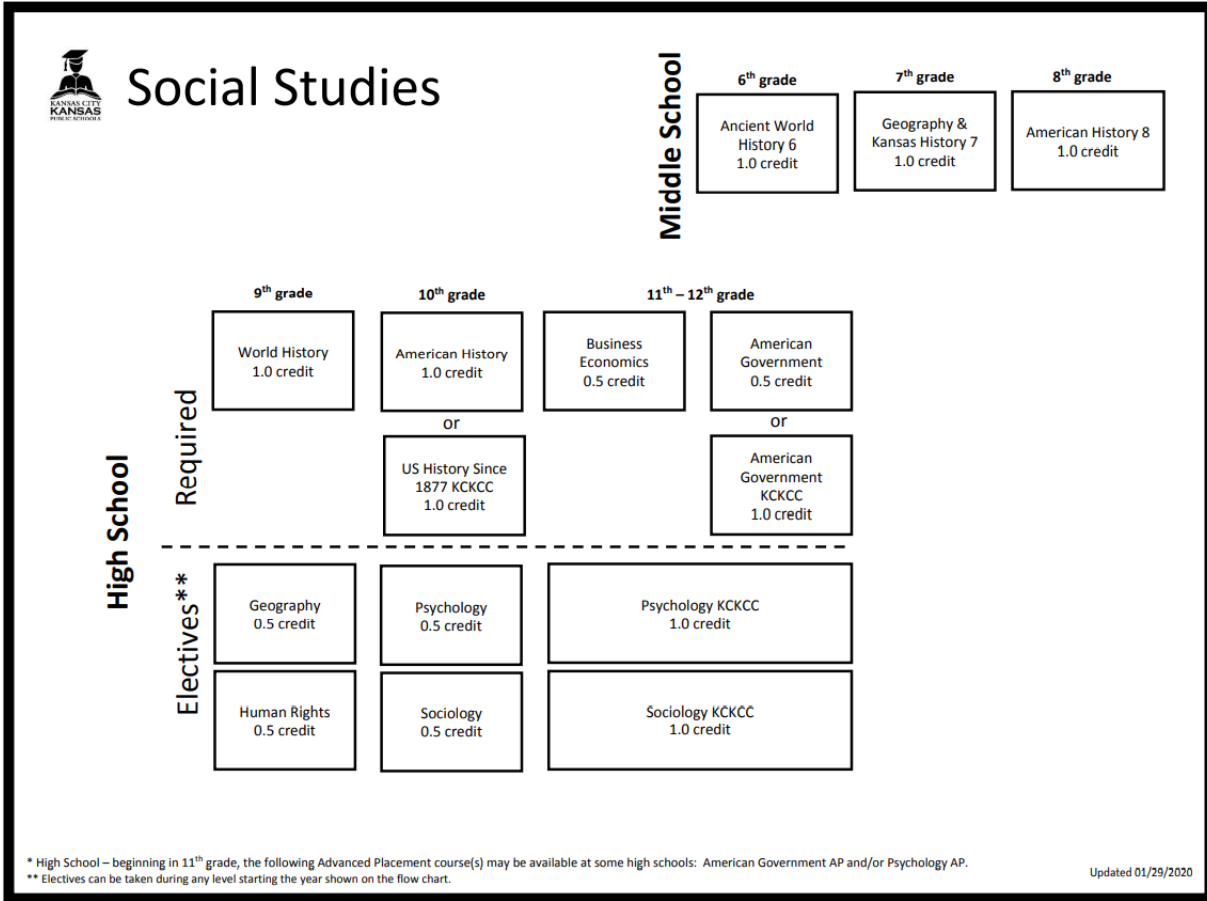
Course #: 02141204  
Credit: 1.0

Credit Type: Math  
Grade Level: 11-12

(Sumner Academy ONLY) Mathematical Analysis and Approaches II IBS is the second of a two-year math course offered by IB. This course covers the last two of the five major topics (Probability and Statistics, and Calculus) and includes a mathematical exploration project. This course is appropriate for students who enjoy developing their mathematics to become fluent in the construction of mathematical arguments and develop strong skills in mathematical thinking. They will also be fascinated by exploring real and abstract applications of these ideas, with and without the use of technology. Students who take Mathematics: Analysis and Approaches will be those who enjoy the thrill of mathematical problem solving and generalization. This subject is aimed at students who will go on to study subjects with substantial mathematics content such as medicine, engineering, physical sciences, mathematics, or economics.

## Social Studies – High School

Course Name	Credit Type	Credit	College Credit	Pre/Co-Req	Grade	Other Information
World History	Social Studies	1.0	No	No	9-12	
US History Since 1877 KCKCC	Social Studies	1.0	Yes	No	10-12	
Business Economics	Social Studies	1.0	No	No	11-12	
American Government	Social Studies	0.5	No	No	11-12	
American Government KCKCC	Social Studies	1.0	Yes	No	11-12	
World Geography	ELECTIVE	0.5	No	No	9-12	
Human Rights Studies	ELECTIVE	0.5	No	No	9-12	
Psychology	ELECTIVE	0.5	No	No	10-12	
Sociology	ELECTIVE	0.5	No	No	10-12	
Psychology KCKCC	ELECTIVE	1.0	Yes	Yes	11-12	
Sociology KCKCC	ELECTIVE	1.0	Yes	Yes	11-12	
American Government AP	Social Studies	1.0	No	No	11-12	Advanced Placement and Pre-AP courses are available for high school students. The exact courses scheduled at a building each school year depend on student interest and instructor availability. See the school counselor for additional information.
Global Politics 1 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY
Global Politics 2 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY
History 2 IBH	Social Studies	1.0	No	No	11-12	Sumner Academy ONLY
History of Africa 1 IBH	Social Studies	1.0	No	No	11-12	Sumner Academy ONLY
History of Asia/Pacific Rim 1 IBH	Social Studies	1.0	No	No	11-12	Sumner Academy ONLY
History of the Americas 1 IBH	Social Studies	1.0	No	No	11-12	Sumner Academy ONLY
Information Technology in Global Society 1 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY
Information Technology in Global Society 2 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY
Introduction Criminal Justice KCKCC	ELECTIVE	1.0	Yes	No	11-12	
Psychology 1 IBH	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY
Psychology 1 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY
Psychology 2 IBH	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY
Psychology 2 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY
Social/Cultural Anthropology 1 IBH	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY
Social/Cultural Anthropology 1 IBS	ELECTIVE	0.5	No	No	11-12	Sumner Academy ONLY
Social/Cultural Anthropology 2 IBH	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY
Social/Cultural Anthropology 2 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY
World History & Geo Pre-AP	Social Studies	1.0	No	No	9-12	Advanced Placement and Pre-AP courses are available for high school students. The exact courses scheduled at a building each school year depend on student interest and instructor availability. See the school counselor for additional information.
World Religions IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY



**World History**

Course #: 04092020  
 Credit: 1.0

Credit Type: Social Studies  
 Grade Level: 9-12

World History provides an overview of the history of human society in the past few centuries—from the renaissance period to the contemporary period—exploring political, economic, social, religious, military, scientific, and cultural developments.

**American History**

Course #: 04102020  
 Credit: 1.0

Credit Type: Social Studies  
 Grade Level: 10-12

American History examines the history of the United States from the Reconstruction era through the present time. It is a survey course, which details the development of U.S. political, economic, and social institutions and the changes in society as it evolved from an agricultural nation into an industrial nation. Attention is given to recurring themes and issues and students learn to link past and present.

**Business Economics**

Course #: 041170210  
 Credit: 1.0

Credit Type: Social Studies  
 Grade Level: 11-12

Business Economics integrates economic principles (such as free market economy, consumerism, and the role of American government within the economic system) with entrepreneurship/business concepts (such as marketing principles, business law, and risk). With a primary emphasis on the principles of microeconomics and the U.S. economic system. Students will also cover topics such as principles of macroeconomics, international economics, and comparative economics.

**US History Since 1877 KCKCC**

Course #: 04122002  
 Credit: 1.0

Credit Type: Social Studies  
 Grade Level: 10-12

This is the high school course for KCKCC HIST-0104 - United States to 1877, 3 credit hours KCKCC Description: Major trends and events of American history through the Reconstruction period are examined. Emphasized are the social, intellectual, political, and economic problems of the Colonial, Revolutionary, early National period, Antebellum period, the Civil War and Reconstruction. Historical interpretations from the dominant professional colleges of thought on leading controversial issues are examined and compared. Pre-requisites: Accuplacer score of 255 on Reading and Writing tests. (Rev. Feb 2020; <https://www.kckcc.edu/files/docs/academics/catalog/2018-2019/course-descriptions.pdf>)

#### **American Government**

Course #: 04112921  
Credit: 0.5

Credit Type: Social Studies  
Grade Level: 12

American Government provides an overview of the structure and functions of the U.S. government and political institutions and examines constitutional principles, the concepts of rights and responsibilities, the role of political parties and interest groups, and the importance of civic participation in the democratic process. Students will examine the structure and function of state and local governments and cover economic and legal topics. Recurring themes at each level are examined and applied to current events. Citizenship is encouraged by participating in voter registration, local political debates, county government days, and visits to the county courthouse.

#### **American Government KCKCC**

Course #: 04122901  
Credit: 1.0

Credit Type: Social Studies  
Grade Level: 12

This is the high school course for KCKCC POSC-0111 - American Government, 3 credit hours KCKCC Description: This is a study of the historical backgrounds, governing principles, institutions, domestic and foreign policy goals of the National Government of the United States. Pre-requisites: Accuplacer score of 255 on Reading and Writing tests. (Rev. Feb 2020; <https://www.kckcc.edu/files/docs/academics/catalog/2018-2019/course-descriptions.pdf>)

#### **American Government AP**

Course #: 04112901  
Credit: 1.0

Credit Type: Social Studies  
Grade Level: 11-12

(Advanced Placement and Pre-AP courses are available for high school students. The exact courses scheduled at a building each school year depend on student interest and instructor availability. See the school counselor for additional information.) American Government is the study of the U.S. political systems from local community government through state and federal institutions. Recurring themes at each level are examined and applied to current events. Citizenship is encouraged by participating in voter registration, local political debates, county government days, and visits to the county courthouse.

#### **History 2 IBH**

Course #: 04142052  
Credit: 1.0

Credit Type: Social Studies  
Grade Level: 11-12

(Sumner Academy ONLY) American History 2 IBH is the second course of the IB history sequence and emphasizes a core of knowledge necessary to understand the events of the twentieth century. Three major topics are covered: causes, practices, and effects of war; rise of single-party states; and East/West relations after 1945.

#### **History of Africa 1 IBH**

Course #: 04142045  
Credit: 1.0

Credit Type: Social Studies  
Grade Level: 11-12

(Sumner Academy ONLY) The Diploma Programme (DP history course is a world history course based on a comparative, multi-perspective approach to history and focused around key historical concepts such as change, causation and significance. It involves the study of a variety of types of history, including political, economic, social and cultural, encouraging students to think historically and to develop historical skills. In this way, the course involves a challenging and demanding critical exploration of the past.

#### **History of Asia/Pacific Rim 1 IBH**

Course #: 04142044  
Credit: 1.0

Credit Type: Social Studies  
Grade Level: 11-12

(Sumner Academy ONLY) The Diploma Programme (DP history course is a world history course based on a comparative, multi-perspective approach to history and focused around key historical concepts such as change, causation and significance. It involves the study of a variety of types of history, including political, economic, social and cultural, encouraging students to think historically and to develop historical skills. In this way, the course involves a challenging and demanding critical exploration of the past.

#### **History of the Americas 1 IBH**

Course #: 04142042  
Credit: 1.0

Credit Type: Social Studies  
Grade Level: 11-12



(Sumner Academy ONLY) American History 1 IBH is the first course in a sequence and is a history of the Americas. Students will survey the development of life and government in the United States, interaction with hemispheric neighbors and international involvement in the twentieth century.

#### **World History & Geography Pre-AP**

Course #: 04092055  
Credit: 1.0

Credit Type: Social Studies  
Grade Level: 9-12

(Advanced Placement and Pre-AP courses are available for high school students. The exact courses scheduled at a building each school year depend on student interest and instructor availability. See the school counselor for additional information.) World History provides an overview of the history of human society in the past few centuries—from the renaissance period to the contemporary period—exploring political, economic, social, religious, military, scientific, and cultural developments.

#### **World Geography**

Course #: 04091025  
Credit: 0.5

Credit Type: **ELECTIVE**  
Grade Level: 9-12

World Geography utilizes the five themes of geography to study the physical, cultural, and economic diversity of the world, including the physical environment; the political landscape; the relationship between people and the land; economic production and development; and the movement of people, goods, and ideas.

#### **Human Rights Studies**

Course #: 04094011  
Credit: 0.5

Credit Type: **ELECTIVE**  
Grade Level: 9-12

Human Rights Studies will provide an overview of the history, central concepts, and practices within the field. It will study the foundations of the idea of human rights in various civilizations and cultures, evaluate its legacy within the world and world cultures, and examine its meaning and relevance in dealing with major issues in the contemporary world. It will address the evolution of international human rights, the various violations of human rights that occur around the world and the instruments designed for the protection of human rights.

#### **Psychology**

Course #: 04105011  
Credit: 0.5

Credit Type: **ELECTIVE**  
Grade Level: 10-12

Psychology is the study of human behavior. Students will be introduced to the study of individual human behavior. Includes an overview of the field of psychology, topics in human growth and development, personality and behavior, and abnormal psychology.

#### **Sociology**

Course #: 04106011  
Credit: 0.5

Credit Type: **ELECTIVE**  
Grade Level: 10-12

Sociology introduces students to the study of human behavior in society. Students will overview topics such as social institutions and norms, socialization and social change, and the relationships among individuals and groups in society such as customs, folkways, mores, social problems, including crime and the penal system, values in family life, and social class stratification, in various cultures.

#### **Psychology KCKCC**

Course #: 04125010  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

Pre-Req: Course is available to juniors and seniors with KCKCC admission & appropriate Accuplacer scores.

This is the high school course for KCKCC PSYC-0101 - Psychology, 3 credit hours KCKCC Description: This course is an introduction to the basic concepts, theories, and research findings in the evolving field of psychology. By learning to think psychologically, students gain insight into themselves and the dynamics of human thinking, behavior, and emotions. Pre-requisites: Accuplacer score of 255 on Reading and Writing tests. (Rev. Feb 2020; <https://www.kkcc.edu/files/docs/academics/catalog/2018-2019/course-descriptions.pdf>)

#### **Sociology KCKCC**

Course #: 04129021  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

Pre-Req: Course is available to juniors and seniors with KCKCC admission & appropriate Accuplacer scores.

This is the high school course for KCKCC SOSC-0107 - Sociology, 3 credit hours KCKCC Description: This course is a general introduction to the field of sociology. It includes both a study of the theoretical aspects, as well as the actual behavior pattern of human groups and associations.

Emphasis is placed on scientific evidence to illustrate and illuminate sociological theories and principles. Pre-requisites: Accuplacer Reading score 240+. (Rev. Feb 2020; <https://www.kkcc.edu/files/docs/academics/catalog/2018-2019/course-descriptions.pdf>)

#### **Global Politics 1 IBS**

Course #: 04141102  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Sumner Academy ONLY) This course is year one of a 2-year course. The 21st century is characterized by rapid change and increasing interconnectedness, impacting individuals and societies in unprecedented ways and creating complex global political challenges. Global politics is an exciting, dynamic subject that draws on a variety of disciplines in the social sciences and humanities, reflecting the complex nature of many contemporary political issues. The study of global politics enables students to critically engage with different and new perspectives and approaches to politics in order to comprehend the challenges of the changing world and become aware of their role in it as active global citizens. The DP global politics course explores fundamental political concepts such as power, equality, sustainability and peace in a range of contexts. It allows students to develop an understanding of the local, national, international and global dimensions of political activity and processes, as well as to explore political issues affecting their own lives. The course helps students to understand abstract political concepts by grounding them in real-world examples and case studies. It also invites comparison between such examples and case studies to ensure a wider and transnational perspective.

#### **Global Politics 2 IBS**

Course #: 04141202  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Sumner Academy ONLY) This course is the second year of a 2-year course. Global Politics I IBS course. The 21st century is characterized by rapid change and increasing interconnectedness, impacting individuals and societies in unprecedented ways and creating complex global political challenges. Global politics is an exciting, dynamic subject that draws on a variety of disciplines in the social sciences and humanities, reflecting the complex nature of many contemporary political issues. The study of global politics enables students to critically engage with different and new perspectives and approaches to politics in order to comprehend the challenges of the changing world and become aware of their role in it as active global citizens. The DP global politics course explores fundamental political concepts such as power, equality, sustainability and peace in a range of contexts. It allows students to develop an understanding of the local, national, international and global dimensions of political activity and processes, as well as to explore political issues affecting their own lives. The course helps students to understand abstract political concepts by grounding them in real-world examples and case studies. It also invites comparison between such examples and case studies to ensure a wider and transnational perspective.

#### **Information Technology in Global Society 1 IBS**

Course #: 04141104  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Sumner Academy ONLY) This course is the first year of a two-year course. Information Technology in a Global Society explores the interactions between humans and their environment in time and place. As a result, these subjects are often known collectively as the human sciences or social sciences. The IB Diploma Program information technology in a global society (ITGS) course is the study and evaluation of the impacts of information technology (IT) on individuals and society. It explores the advantages and disadvantages of the access and use of digitized information at the local and global level. ITGS provides a framework for the student to make informed judgments and decisions about the use of IT within social contexts.

#### **Information Technology in Global Society 2 IBS**

Course #: 04141204  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Sumner Academy ONLY) This course is the second year of a two-year course. Information Technology in a Global Society explores the interactions between humans and their environment in time and place. As a result, these subjects are often known collectively as the human sciences or social sciences. The IB Diploma Program information technology in a global society (ITGS) course is the study and evaluation of the impacts of information technology (IT) on individuals and society. It explores the advantages and disadvantages of the access and use of digitized information at the local and global level. ITGS provides a framework for the student to make informed judgments and decisions about the use of IT within social contexts.

#### **Psychology 1 IBH**

Course #: 04144032  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Sumner Academy ONLY) The IB psychology course is the systematic study of behavior and mental processes. Students undertaking the course can expect to develop an understanding of how psychological knowledge is generated, developed and applied. The course will explore the biological, cognitive and sociocultural constructs of behavior as well as examining specific behavior such as human relationships, human development, and abnormal psychology.

#### **Psychology 1 IBS**

Course #: 04144012  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Sumner Academy ONLY) IB Psychology courses prepare students to take the International Baccalaureate Psychology exams at either the Subsidiary or Higher level. Course content includes developmental and social psychology, cognition and learning, and personality subject areas, which are approached from biological/physiological, behavioral, and humanistic points of view. These courses may include a study of research design and statistics and involve practical work in psychological research.

#### **Psychology 2 IBH**

Course #: 04144042  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Sumner Academy ONLY) The IB psychology course is the systematic study of behavior and mental processes. Students undertaking the course can expect to develop an understanding of how psychological knowledge is generated, developed and applied. The course will explore the biological, cognitive and sociocultural constructs of behavior as well as examining specific behavior such as human relationships, human development, and abnormal psychology.

#### **Psychology 2 IBS**

Course #: 04144022  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Sumner Academy ONLY) The IB psychology course is the systematic study of behavior and mental processes. Students undertaking the course can expect to develop an understanding of how psychological knowledge is generated, developed and applied. The course will explore the biological, cognitive and sociocultural constructs of behavior as well as examining specific behavior such as human relationships, human development, and abnormal psychology.

#### **Social/Cultural Anthropology 1 IBH**

Course #: 04134030  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Sumner Academy ONLY) Cultural Anthropology is the comparative study of how people live around the world. Anthropologists study how culture is learned and shared and how it influences all aspects of our life - what we eat, whom we marry, what we find desirable, whom we consider our family and how we see the world - looking for common threads and contrasts. The class seeks to bring an understanding of humankind and to value its diversity. We will be studying gender, race, religion, immigration, health and illness, power, economic inequality, globalization, and conflict. We will study many cultures but will pay special attention to Hmong, to Triqui migrants working in the US, women working in call centers in India, and gender and race issues in the US.

#### **Social/Cultural Anthropology 1 IBS**

Course #: 04134010  
Credit: 0.5

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Sumner Academy ONLY) Cultural Anthropology is the comparative study of how people live around the world. Anthropologists study how culture is learned and shared and how it influences all aspects of our life - what we eat, whom we marry, what we find desirable, whom we consider our family and how we see the world - looking for common threads and contrasts. The class seeks to bring an understanding of humankind and to value its diversity. We will be studying gender, race, religion, immigration, health and illness, power, economic inequality, globalization, and conflict. We will study many cultures but will pay special attention to Hmong, to Triqui migrants working in the US, women working in call centers in India, and gender and race issues in the US.

#### **Social/Cultural Anthropology 2 IBH**

Course #: 04134040  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Sumner Academy ONLY) Cultural Anthropology is the comparative study of how people live around the world. Anthropologists study how culture is learned and shared and how it influences all aspects of our life - what we eat, whom we marry, what we find desirable, whom we consider our family and how we see the world - looking for common threads and contrasts. The class seeks to bring an understanding of humankind and to value its diversity. We will be studying gender, race, religion, immigration, health and illness, power, economic inequality, globalization, and conflict. We will study many cultures but will pay special attention to Hmong, to Triqui migrants working in the US, women working in call centers in India, and gender and race issues in the US.

#### **Social/Cultural Anthropology 2 IBS**

Course #: 04134020  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Sumner Academy ONLY) Cultural Anthropology is the comparative study of how people live around the world. Anthropologists study how culture is learned and shared and how it influences all aspects of our life - what we eat, whom we marry, what we find desirable, whom we

consider our family and how we see the world - looking for common threads and contrasts. The class seeks to bring an understanding of humankind and to value its diversity. We will be studying gender, race, religion, immigration, health and illness, power, economic inequality, globalization, and conflict. We will study many cultures but will pay special attention to Hmong, to Triqui migrants working in the US, women working in call centers in India, and gender and race issues in the US.

#### **World Religions IBS**

Course #: 04145020

Credit Type: **ELECTIVE**

Credit: 1.0

Grade Level: 11-12

(Sumner Academy ONLY) World Religions SL is a course designed to promote an inquiring, analytical, and empathetic approach to the study of religion. Students should develop an informed understanding of the diversity of world religions and foster a respectful awareness of the significance of the beliefs and practices of those religions. Students should develop an understanding of how religion affects people's lives, while encouraging a global appreciation of the issues surrounding religious and spiritual beliefs and movements around the world today. World Religions SL promotes responsible and informed international citizenship.

## Science – High School

Course Name	Credit Type	Credit	College Credit	Pre/Co-Req	Grade	Other Information
Biology	Science	1.0	No	No	9-12	
Physical Science	Science	1.0	No	No	10-12	
Chemistry	Science	1.0	No	No	10-12	
Environmental Science	Science	1.0	No	No	10-12	
Zoology	Science	0.5	No	No	10-12	
Anatomy & Physiology	Science	1.0	No	No	10-12	
Earth Science	Science	0.5	No	No	10-12	
Botany	Science	0.5	No	No	10-12	
Astronomy	Science	0.5	No	No	10-12	
Physics	Science	1.0	No	No	11-12	
Biology KCKCC	Science	1.0	No	No	11-12	
Human Anatomy & Lab KCKCC	Science	1.0	Yes	No	11-12	
College Chemistry I & Lab KCKCC	Science	1.0	Yes	No	11-12	
Physics KCKCC	Science	1.0	Yes	No	11-12	
Biology 1 IBH	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY
Biology 1 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY
Biology 2 IBH	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY
Biology 2 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY
Chemistry 1 IBH	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY
Chemistry 1 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY
Chemistry 2 IBH	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY
Chemistry 2 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY
Chemistry AP	Science	1.0	No	No	11-12	Advanced Placement and Pre-AP courses are available for high school students. The exact courses scheduled at a building each school year depend on student interest and instructor availability. See the school counselor for additional information.
Environmental Systems & Society 1 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY
Environmental Systems & Society 2 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY
Environmental Science AP	Science	1.0	No	No	9-12	Advanced Placement and Pre-AP courses are available for high school students. The exact courses scheduled at a building each school year depend on student interest and instructor availability. See the school counselor for additional information.
Introduction to Exercise Science KCKCC	Science	1.0	Yes	No	12	
Physics 1 IBH	Science	1.0	No	No	11-12	Sumner Academy ONLY
Physics 1 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY
Physics 2 IBH	Science	1.0	No	No	11-12	Sumner Academy ONLY
Physics 2 IBS	Science	1.0	No	No	11-12	Sumner Academy ONLY
Sports Exercise & Health Science 1 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY
Sports Exercise & Health Science 2 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY



# Science

Middle School

6 <sup>th</sup> grade	7 <sup>th</sup> grade	8 <sup>th</sup> grade
6 <sup>th</sup> grade Science 1.0 credit	7 <sup>th</sup> grade Science 1.0 credit	8 <sup>th</sup> grade Science 1.0 credit

High School

9 <sup>th</sup> Grade	10 <sup>th</sup> – 12 <sup>th</sup> grade Options		11 <sup>th</sup> – 12 <sup>th</sup> grade Options	
Biology 1.0 credit	Physical Science 1.0 credit	Chemistry 1.0 credit	Physics 1.0 credit	
	Environmental Science 1.0 credit	Zoology 0.5 credit	Biology KCKCC 1.0 credit	Human Anatomy & Lab KCKCC 1.0 credit
	Anatomy & Physiology 1.0 credit	Earth Science 0.5 credit	College Chemistry I & Lab KCKCC 1.0 credit	Physics KCKCC 1.0 credit
	Botany 0.5 credit	Astronomy 0.5 credit		

\* High School – beginning in 11<sup>th</sup> grade, the following Advanced Placement course(s) may be available at some high schools: Chemistry AP.

Updated 01/29/2020

## Biology

Course #: 03101020  
Credit: 1.0

Credit Type: Science  
Grade Level: 9-12

This course is a laboratory oriented course designed to introduce students to the diversity of living organisms. The course introduces basic principles of morphology and function in the plant and animal kingdoms, microbiology, reproduction, heredity, and biological processes and systems.

## Physical Science

Course #: 03091020  
Credit: 1.0

Credit Type: Science  
Grade Level: 10-12

This is a science survey course for students before they take chemistry or physics. The scientific method, science processes, laboratory techniques, and measurement will be emphasized. This course will provide a scientific way of thinking, problem solving and an overview of essential science content in the areas of physics, chemistry, Earth, and space sciences.

## Chemistry

Course #: 03113020  
Credit: 1.0

Credit Type: Science  
Grade Level: 10-12

This course is designed to provide an introduction to the chemical and physical behavior of matter. Upon successful completion of the course, students will be able to show mastery of laboratory procedures and the use of laboratory apparatus. They will also demonstrate the ability to gather experimental data through observations, and perform a scientific analysis of results obtained from experimentation. Students will also show proficiency in writing and understanding formulas, equations, and associated stoichiometry. Other topics of study will include elements, compounds, states of matter, solutions, chemical bonding, chemical reactions, and the gas laws. Students must successfully complete Algebra 1 to have the requisite math skills for this course.

## Environmental Science

Course #: 03093004

Credit Type: Science

Credit: 1.0

Grade Level: 10-12

This course examines the mutual relationships between organisms and their environment. In studying the interrelationships among plants, animals, and humans, these courses usually cover the following subjects: photosynthesis, recycling and regeneration, ecosystems, population and growth studies, pollution, and conservation of natural resources.

#### **Anatomy & Physiology**

Course #:  
Credit: 1.0

Credit Type: Science  
Grade Level: 10-12

This course is usually taken after a comprehensive initial study of biology, Anatomy and Physiology presents the human body and biological systems in more detail. In order to understand the structure of the human body and its functions, students learn anatomical terminology, study cells and tissues, explore functional systems (skeletal, muscular, circulatory, respiratory, digestive, reproductive, nervous, and so on), and may dissect mammals.

#### **Earth Science**

Course #: 03115002  
Credit: 0.5

Credit Type: Science  
Grade Level: 10-12

This course offers insight into the environment on earth and the earth's environment in space. While presenting the concepts and principles essential to students' understanding of the dynamics and history of the earth, these courses usually explore oceanography, geology, astronomy, meteorology, and geography.

#### **Zoology**

Course #: 03114011  
Credit: 0.5

Credit Type: Science  
Grade Level: 10-12

This course provides students with an understanding of animals, the niche they occupy in their environment or habitat, their life cycles, and their evolutionary relationships to other organisms. These courses should also help students develop an awareness and understanding of biotic communities.

#### **Botany**

Course #: 03112021  
Credit: 0.5

Credit Type: Science  
Grade Level: 10-12

This course is a laboratory oriented course focusing on the study of plants from the primitive algae to the complex seed plants. The class provides students with an understanding of plants, their life cycles, and their evolutionary relationships.

#### **Astronomy**

Course #: 03117002  
Credit: 0.5

Credit Type: Science  
Grade Level: 10-12

This course offers students the opportunity to study the solar system, stars, galaxies, and interstellar bodies. These courses usually introduce and use astronomical instruments and typically explore theories regarding the origin and evolution of the universe, space, and time.

#### **Physics**

Course #: 03116002  
Credit: 1.0

Credit Type: Science  
Grade Level:

This is a lab-based course designed to study motion, force, work, heat, sound, light, electricity, and magnetism. The understanding of relationships will be developed through reading, discussion, problems, and lab work. Many everyday phenomena will be explained in terms of physics and its principles. A scientific calculator is required for this course.

#### **Biology KCKCC**

Course #: 03121002  
Credit: 1.0

Credit Type: Science  
Grade Level: 11-12

This is the high school course for KCKCC BIOL-0121 - General Biology, 5 credit hours KCKCC Description: General Biology introduces fundamental biological principles characteristic of all living things. Lecture and laboratory work will review the scientific method (experimental and observational science), levels of organization and emergent properties of life, molecular and cell biology, bioenergetics, reproduction, genetics, evolution and ecology. A prior course in Chemistry is recommended. Pre-requisites: Accuplacer Reading score 240+ (Rev. Feb 2020; <https://www.kckcc.edu/files/docs/academics/catalog/2018-2019/course-descriptions.pdf>)

#### **Human Anatomy & Lab KCKCC**

Course #: 03123010

Credit Type: Science

Credit: 1.0

Grade Level: 11-12

In a systematic study of the gross anatomical organizations of the human body, students examine the interrelationships of the structure of the human body and the general structure and functions of tissues, organs, and organ systems by means of models, skeletons, charts, and audio-visual materials. Six hours lecture/integrated lab are required each week. This course is recommended for Life Science and Health Career majors only. (KCKCC Course BIOL - 0143)

#### College Chemistry 1 & Lab KCKCC

Course #: 03113202

Credit Type: Science

Credit: 1.0

Grade Level: 11-12

This is the high school course for KCKCC CHEM-0111 - College Chemistry I and Lab, 5 credit hours KCKCC Description: Primarily for biological or physical science majors, College Chemistry I and Lab provides an introduction to the fundamental concepts of chemistry. The laboratory supports the concepts through practical application and develops scientific techniques. Pre-requisites: Accuplacer score of 263+ on Math test. (Rev. Feb 2020; <https://www.kckcc.edu/files/docs/academics/catalog/2018-2019/course-descriptions.pdf>)

#### Physics KCKCC

Course #: 03126010

Credit Type: Science

Credit: 1.0

Grade Level: 11-12

This is the high school course for KCKCC NASC-0231 - General Physics I and Lab, 5 credit hours KCKCC Description: The course covers mechanics, heat, fluids, oscillations, waves, sound and thermodynamics. The course requires conceptual understanding and problem solving using the tools of algebra and trigonometry. Schedule: five hours of lectures and two hours of lab work per week. Pre-requisites: Accuplacer score of 255 on Reading and Writing tests AND Accuplacer score of 263+ on Math test. (Rev. Feb 2020; <https://www.kckcc.edu/files/docs/academics/catalog/2018-2019/course-descriptions.pdf>)

#### Chemistry AP

Course #: 03133020

Credit Type: Science

Credit: 1.0

Grade Level: 11-12

(Advanced Placement and Pre-AP courses are available for high school students. The exact courses scheduled at a building each school year depend on student interest and instructor availability. See the school counselor for additional information.) The AP Chemistry course provides students with a college-level foundation to support future advanced course work in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. Created by the AP Chemistry Development Committee, the course curriculum is compatible with many Chemistry courses in colleges and universities.

#### Environmental Science AP

Course #: 03093054

Credit Type: Science

Credit: 1.0

Grade Level: 9-12

(Advanced Placement and Pre-AP courses are available for high school students. The exact courses scheduled at a building each school year depend on student interest and instructor availability. See the school counselor for additional information.) AP Environmental Science courses are designed by the College Board to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, identify and analyze environmental problems (both natural and human made), evaluate the relative risks associated with the problems, and examine alternative solutions for resolving and/or preventing them. Topics covered include science as a process, ecological processes and energy conversions, earth as an interconnected system, the impact of humans on natural systems, cultural and societal contexts of environmental problems, and the development of practices that will ensure sustainable systems.

#### Introduction to Exercise Science KCKCC

Course #: 03124010

Credit Type: Science

Credit: 1.0

Grade Level: 12

This is the high school course for KCKCC EXSC-0201 - Introduction to Exercise Science, 3 credit hours KCKCC Description: This course is to introduce the scientific discipline of Exercise Science. Students will be exploring the areas of exercise science, exercise physiology, preventive and rehabilitation of sports-related injuries, biomechanics, sport psychology, motor learning, nutrition, and health benefits of exercise. Pre-requisites: Accuplacer Reading score 240+(Rev. Feb 2020; <https://www.kckcc.edu/files/docs/academics/catalog/2018-2019/course-descriptions.pdf>)

#### Physics 1 IBH

Course #: 03146012

Credit Type: Science

Credit: 1.0

Grade Level: 11-12

(Sumner Academy ONLY) Usually taken after a comprehensive initial study of physics, Physics—Advanced Studies courses provide instruction in laws of conservation, thermodynamics, and kinetics; wave and particle phenomena; electromagnetic fields; and fluid dynamics



### Physics 2 IBH

Course #: 03146022  
Credit: 1.0

Credit Type: Science  
Grade Level: 11-12

(Sumner Academy ONLY) Usually taken after a comprehensive initial study of physics, Physics—Advanced Studies courses provide instruction in laws of conservation, thermodynamics, and kinetics; wave and particle phenomena; electromagnetic fields; and fluid dynamics.

### Physics 2 IBS

Course #: 03146026  
Credit: 1.0

Credit Type: Science  
Grade Level: 11-12

(Sumner Academy ONLY) IB Physics courses prepare students to take the International Baccalaureate Physics exams at either the Subsidiary or Higher level. In keeping with the general aim of IB Experimental Sciences courses, IB Physics promotes understanding of the facts, patterns, and principles underlying the field of physics; critical analysis, prediction, and application of scientific information and hypotheses; improved ability to communicate scientific ideas; and an awareness of the impact of scientific advances in physics upon both society and issues of ethical, philosophical, and political importance. Course content varies, but includes the study of the fundamental laws of nature and the interaction between concepts of matter, fields, waves, and energy. Laboratory experimentation is essential; calculus may be used in some courses.

### Biology 1 IBH

Course #: 03141012  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Sumner Academy ONLY) IB Biology courses prepare students to take the International Baccalaureate Biology exams at either the Subsidiary or Higher level. In keeping with the general aim of IB Experimental Sciences courses, IB Biology promotes understanding of the facts, principles, and concepts underlying the biological field; critical analysis, evaluation, and generation of scientific information and hypotheses; improved ability to communicate scientific ideas; and an awareness of the impact of biology and scientific advances in biology upon both society and issues of ethical, philosophical, and political importance. Course content varies, but includes study of living organisms from the cellular level through functioning entities within the biosphere. Laboratory experimentation is an essential component of these courses.

### Biology 1 IBS

Course #: 03141002  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Sumner Academy ONLY) IB Biology courses prepare students to take the International Baccalaureate Biology exams at either the Subsidiary or Higher level. In keeping with the general aim of IB Experimental Sciences courses, IB Biology promotes understanding of the facts, principles, and concepts underlying the biological field; critical analysis, evaluation, and generation of scientific information and hypotheses; improved ability to communicate scientific ideas; and an awareness of the impact of biology and scientific advances in biology upon both society and issues of ethical, philosophical, and political importance. Course content varies, but includes study of living organisms from the cellular level through functioning entities within the biosphere. Laboratory experimentation is an essential component of these courses.

### Biology 2 IBH

Course #: 03141022  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Sumner Academy ONLY) IB Biology courses prepare students to take the International Baccalaureate Biology exams at either the Subsidiary or Higher level. In keeping with the general aim of IB Experimental Sciences courses, IB Biology promotes understanding of the facts, principles, and concepts underlying the biological field; critical analysis, evaluation, and generation of scientific information and hypotheses; improved ability to communicate scientific ideas; and an awareness of the impact of biology and scientific advances in biology upon both society and issues of ethical, philosophical, and political importance. Course content varies, but includes study of living organisms from the cellular level through functioning entities within the biosphere. Laboratory experimentation is an essential component of these courses.

### Biology 2 IBS

Course #: 03141032  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Sumner Academy ONLY) IB Biology courses prepare students to take the International Baccalaureate Biology exams at either the Subsidiary or Higher level. In keeping with the general aim of IB Experimental Sciences courses, IB Biology promotes understanding of the facts, principles, and concepts underlying the biological field; critical analysis, evaluation, and generation of scientific information and hypotheses; improved ability to communicate scientific ideas; and an awareness of the impact of biology and scientific advances in biology upon both society and issues of ethical, philosophical, and political importance. Course content varies, but includes study of living organisms from the cellular level through functioning entities within the biosphere. Laboratory experimentation is an essential component of these courses.

### Chemistry 1 IBH

Course #: 03143004  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Sumner Academy ONLY) Usually taken after a comprehensive initial study of chemistry, Chemistry Advanced Studies courses cover chemical properties and interactions in more detail. Advanced chemistry topics include organic chemistry, thermodynamics, electrochemistry, macromolecules, kinetic theory, and nuclear chemistry.

#### **Chemistry 1 IBS**

Course #: 03143002  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Sumner Academy ONLY) IB Chemistry courses prepare students to take the International Baccalaureate Chemistry exams at either the Subsidiary or Higher level. In keeping with the general aim of IB Experimental Sciences courses, IB Chemistry promotes understanding of the facts, patterns, and principles underlying the field of chemistry; critical analysis, evaluation, prediction, and generation of scientific information and hypotheses; improved ability to communicate scientific ideas; and an awareness of the impact of chemistry and scientific advances in chemistry upon both society and issues of ethical, philosophical, and political importance. Course content varies, but includes the study of the materials of the environment, their properties, and their interaction. Laboratory experimentation is an essential part of these courses.

#### **Chemistry 2 IBH**

Course #: 03143022  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Sumner Academy ONLY) IB Chemistry courses prepare students to take the International Baccalaureate Chemistry exams at either the Subsidiary or Higher level. In keeping with the general aim of IB Experimental Sciences courses, IB Chemistry promotes understanding of the facts, patterns, and principles underlying the field of chemistry; critical analysis, evaluation, prediction, and generation of scientific information and hypotheses; improved ability to communicate scientific ideas; and an awareness of the impact of chemistry and scientific advances in chemistry upon both society and issues of ethical, philosophical, and political importance. Course content varies, but includes the study of the materials of the environment, their properties, and their interaction. Laboratory experimentation is an essential part of these courses.

#### **Chemistry 2 IBS**

Course #: 03143032  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Sumner Academy ONLY) IB Chemistry courses prepare students to take the International Baccalaureate Chemistry exams at either the Subsidiary or Higher level. In keeping with the general aim of IB Experimental Sciences courses, IB Chemistry promotes understanding of the facts, patterns, and principles underlying the field of chemistry; critical analysis, evaluation, prediction, and generation of scientific information and hypotheses; improved ability to communicate scientific ideas; and an awareness of the impact of chemistry and scientific advances in chemistry upon both society and issues of ethical, philosophical, and political importance. Course content varies, but includes the study of the materials of the environment, their properties, and their interaction. Laboratory experimentation is an essential part of these courses.

#### **Environmental Systems & Society 1 IBS**

Course #: 03141104  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Sumner Academy ONLY) This is the first year of a 2-year course. Environmental systems and societies (ESS) is an interdisciplinary course offered only at standard level (SL). This course can fulfill either the individuals and societies or the sciences requirement. Alternatively, this course enables students to satisfy the requirements of both subject groups simultaneously while studying one course. ESS is firmly grounded in both a scientific exploration of environmental systems in their structure and function, and in the exploration of cultural, economic, ethical, political and social interactions of societies with the environment.

#### **Environmental Systems & Society 2 IBS**

Course #: 03141204  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Sumner Academy ONLY) This is the second year of a 2-year course. Environmental systems and societies (ESS) is an interdisciplinary course offered only at standard level (SL). This course can fulfill either the individuals and societies or the sciences requirement. Alternatively, this course enables students to satisfy the requirements of both subject groups simultaneously while studying one course. ESS is firmly grounded in both a scientific exploration of environmental systems in their structure and function, and in the exploration of cultural, economic, ethical, political and social interactions of societies with the environment.

#### **Physics 1 IBS**

Course #: 03146016  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Sumner Academy ONLY) IB Physical Science courses prepare students to take the International Baccalaureate Physical Science exams at either the Subsidiary or Higher level. These courses integrate the study of physics and chemistry, showing how the physical and chemical properties of materials can be explained and predicted in terms of atomic, molecular, and crystal structures and forces. In keeping with the general aim of IB Experimental Sciences courses, IB Physical Science courses promote critical analysis, prediction, and application of scientific information and hypotheses; improved ability to communicate scientific ideas; and an awareness of the impact of science and scientific advances upon both society and issues of ethical, philosophical, and political importance. Students are required to develop and pursue an individual, experimental project, which is evaluated as part of the IB exam.

#### **Sports Exercise & Health Science 1 IBS**

Course #: 03146014  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Sumner Academy ONLY) The Sports, exercise and health science course is a standard level (SL) and higher level (HL) subject. This course lies within the Sciences. Students explore the concepts, theories, models and techniques that underpin each subject area and through these develop their understanding of the scientific method. SEHS students participate in a compulsory group 4 project. This collaborative and interdisciplinary exercise provides an opportunity for students to explore scientific solutions to global questions.

#### **Sports Exercise & Health Science 2 IBS**

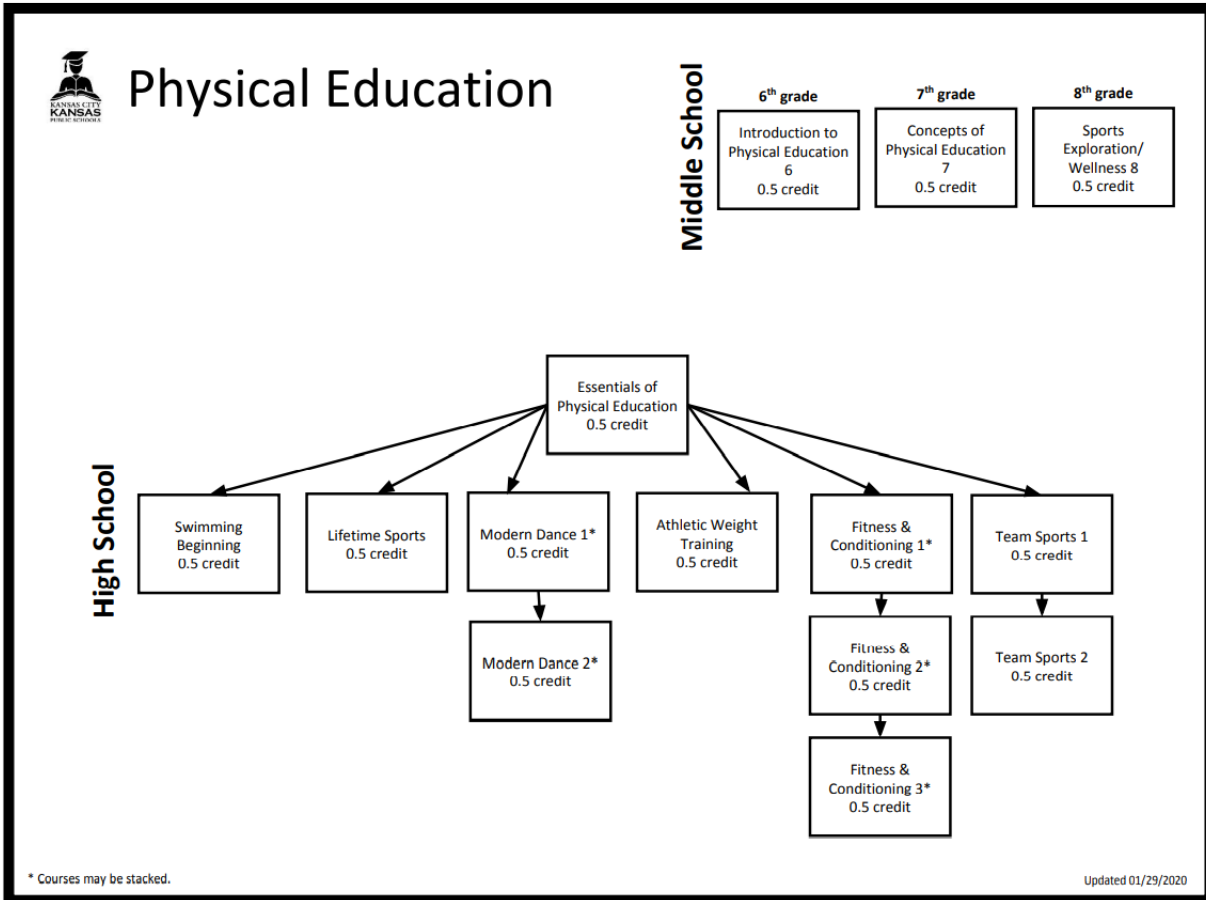
Course #: 03146024  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Sumner Academy ONLY) The Sports, exercise and health science course is a standard level (SL) and higher level (HL) subject. This course lies within the Sciences. Students explore the concepts, theories, models and techniques that underpin each subject area and through these develop their understanding of the scientific method. SEHS students participate in a compulsory group 4 project. This collaborative and interdisciplinary exercise provides an opportunity for students to explore scientific solutions to global questions.

## Physical Education – High School

Course Name	Credit Type	Credit	College Credit	Pre/Co-Req	Grade	Other Information
Essentials of Physical Education	Phys Ed	0.5	No	No	9-12	
Athletic Weight Training 1	ELECTIVE	0.5	No	Yes	10-12	
Athletic Weight Training 2	ELECTIVE	0.5	No	Yes	10-12	
Fitness/Conditioning 1	Phys Ed	0.5	No	Yes	10-12	
Fitness/Conditioning 2	ELECTIVE	0.5	No	Yes	10-12	
Fitness/Conditioning 3	ELECTIVE	0.5	No	Yes	10-12	
Lifetime Sports	Phys Ed	0.5	No	Yes	10-12	
Modern Dance 1	Phys Ed	0.5	No	Yes	10-12	
Modern Dance 2	ELECTIVE	0.5	No	Yes	10-12	
Swimming Beginning	Phys Ed	0.5	No	Yes	10-12	Available at Sumner Academy, Washington and Wyandotte HS ONLY
Team Sports 1	Phys Ed	0.5	No	Yes	10-12	
Team Sports 2	ELECTIVE	0.5	No	Yes	10-12	



### Essentials of Physical Education

Course #: 06091050  
Credit: 0.5

Credit Type: Phys Ed  
Grade Level: 9-12

This course is designed to provide students with knowledge and skills in three areas of physical education: health-related fitness, lifetime fitness activity, and health/wellness concepts and skills. Students are guided in the application of this information and these skills for lifetime wellness. The course is taught in classroom and gymnasium settings for optimal learning opportunities.



This course is designed to provide students with an opportunity to continue developing knowledge and skills in the field of modern dance. Students will gain both in technical skill and in creative communication through dance. An off-site practicum could be utilized.

### Swimming Beginning

Course #: 06107001

Credit Type: Phys Ed

Credit: 0.5

Grade Level: 10-12

Pre-Req: Principles of PE

(Sumner Academy, Washington HS, Wyandotte HS ONLY) This course is designed for any student who is unable to swim or is uncomfortable in deep water swimming. Basic strokes and safety skills will be covered.

### Team Sports 1

Course #: 06103001

Credit Type: Phys Ed

Credit: 0.5

Grade Level: 10-12

Pre-Req: Principles of PE

This course is designed for the student who is interested in participating in recreational team sports. Emphasis is on daily participation and developing higher proficiency in sports skills, teamwork, and greater knowledge of the rules and strategies used in the sports.

### Team Sports 2

Course #: 06104011

Credit Type: **ELECTIVE**

Credit: 0.5

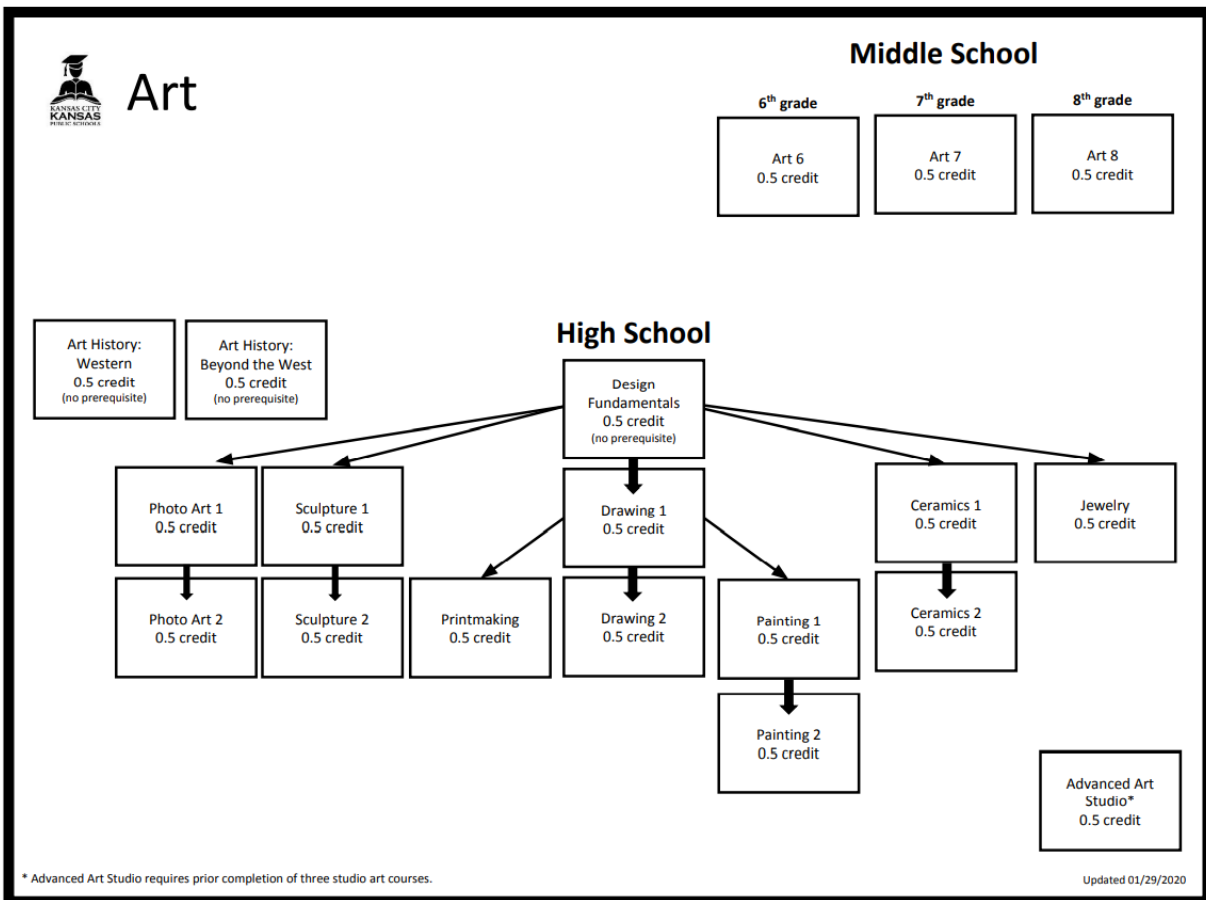
Grade Level: 10-12

Pre-Req: Team Sports 1

This course is designed to integrate previous taught sport skills in the areas of technique and strategy as they pertain to team sports. Officiating, creating practice plans and developing units of study in a specific sport will be required.

## Art – High School

Course Name	Credit Type	Credit	College Credit	Pre/Co-Req	Grade	Other Information
Design Fundamentals	Fine Arts	0.5	No	No	9-12	
Advanced Art Studio 1	Fine Arts	0.5	No	Yes	9-12	
Advanced Art Studio 2	Fine Arts	0.5	No	Yes	9-12	
Art & Design 1 IBH	Fine Arts	1.0	No	Yes	11-12	Sumner Academy ONLY
Art & Design 2 IBH	Fine Arts	1.0	No	Yes	11-12	Sumner Academy ONLY
Art History: Beyond the West	Fine Arts	1.0	No	No	9-12	
Art History: Western	Fine Arts	1.0	No	No	9-12	
Ceramics 1	Fine Arts	0.5	No	Yes	9-12	
Ceramics 2	Fine Arts	0.5	No	Yes	9-12	
Drawing 1	Fine Arts	0.5	No	Yes	9-12	
Drawing 2	Fine Arts	0.5	No	Yes	9-12	
Jewelry	Fine Arts	0.5	No	Yes	9-12	
Painting 1	Fine Arts	0.5	No	Yes	9-12	
Painting 2	Fine Arts	0.5	No	Yes	9-12	
Photo Art 1	Fine Arts	0.5	No	Yes	9-12	
Photo Art 2	Fine Arts	0.5	No	Yes	9-12	
Printmaking	Fine Arts	0.5	No	Yes	9-12	
Sculpture 1	Fine Arts	0.5	No	Yes	9-12	
Sculpture 2	Fine Arts	0.5	No	Yes	9-12	



### Design Fundamentals

Course #: 07091001  
Credit: 0.5

Credit Type: Fine Arts  
Grade Level: 9-12





Course #: 07094021  
Credit: 0.5  
Pre-Req: Design Fundamentals

Credit Type: Fine Arts  
Grade Level: 9-12

The purpose of this course is to learn the various hand-building techniques of working with clay such as coil, slab, pinch and drape. An introduction to wheel-thrown pots and glaze application will be included.

### Ceramics 2

Course #: 07104021  
Credit: 0.5  
Pre-Req: Ceramics 1

Credit Type: Fine Arts  
Grade Level: 9-12

The purpose of this course is to further explore the hand-building techniques learned in Ceramics 1. Additional techniques will be covered, such as wheel and hand-built forms, handles, glaze formulas, glaze mixing and application, kiln loading and firing. Advanced throwing techniques will also be introduced.

### Drawing 1

Course #: 07091011  
Credit: 0.5  
Pre-Req: Design Fundamentals

Credit Type: Fine Arts  
Grade Level: 9-12

This course will provide the necessary discipline for acquainting students with the basic skills and techniques of drawing. The major emphasis of the course will be increasing visual perception. A wide range of drawing media will become part of the learning-to-see program. Students will be introduced to a wide range of techniques and media. Emphasis will be placed on learning to use media more competently and moving beyond the simple concepts into more advanced work area.

### Drawing 2

Course #: 07101011  
Credit: 0.5  
Pre-Req: Drawing 1

Credit Type: Fine Arts  
Grade Level: 9-12

This course will stress experimentation, research, and physical application of knowledge. There will be research into drawing methods and materials used by past artists as well as exploration of new approaches to drawing.

### Jewelry

Course #: 07095011  
Credit: 0.5  
Pre-Req: Design Fundamentals

Credit Type: Fine Arts  
Grade Level: 9-12

Jewelry courses apply art and design principles to the creation of jewelry. Typically, students explore using various media, such as ceramic, papier-mâché, glass, plastic, copper-enameled, brass, and silver. Course topics include exposure to jewelry of diverse world cultures and the history of jewelry design. Some Jewelry courses may concentrate on metalwork processes such as brazing, soldering, casting, welding, riveting, and finishing as they relate to the creation of jewelry.

### Painting 1

Course #: 07102011  
Credit: 0.5  
Pre-Req: Design Fundamentals

Credit Type: Fine Arts  
Grade Level: 9-12

Painting 1 will involve learning many of the various skills, techniques, styles and media of painting and drawing. A wide variety of techniques will be included, such as impasto, hard edge, underglazing, etc. Media will cover acrylic, watercolor, pencil, pastels, colored inks, etc.

### Painting 2

Course #: 07102021  
Credit: 0.5  
Pre-Req: Painting 1

Credit Type: Fine Arts  
Grade Level: 9-12

Painting 2 will allow students to pursue interests in the advanced study of drawing and painting. Along with the media used in the previous class, oil painting will be added to the list of techniques and materials.

### Photo Art 1

Course #: 07108011  
Credit: 0.5  
Pre-Req: Design Fundamentals

Credit Type: Fine Arts  
Grade Level: 9-12

Photography courses expose students to the materials, processes, and artistic techniques of taking artistic photographs. Students learn about the operation of a camera, composition, lighting techniques, depth of field, filters, camera angles, and film development. The course may cover black-and-white photography, color photography, or both. As students advance, the instruction regarding the creative process becomes more refined, and students are encouraged to develop their own artistic style. These courses may also cover major photographers, art movements, and styles.

#### **Photo Art 2**

Course #: 07108021

Credit Type: **Fine Arts**

Credit: 0.5

Grade Level: 9-12

Pre-Req: Photo Art 1

Photographic Art 2 is an extension of Photographic Art 1, and is designed to teach photography techniques in preparation for the commercial photography careers. Photography courses expose students to the materials, processes, and artistic techniques of taking artistic photographs. Students learn about the operation of a camera, composition, lighting techniques, depth of field, filters, camera angles, and film development. The course may cover black-and-white photography, color photography, or both. As students advance, the instruction regarding the creative process becomes more refined, and students are encouraged to develop their own artistic style. These courses may also cover major photographers, art movements, and styles.

#### **Printmaking**

Course #: 07103031

Credit Type: **Fine Arts**

Credit: 0.5

Grade Level: 9-12

Pre-Req: Design Fundamentals

Printmaking courses introduce students to a variety of printmaking techniques using processes such as relief printing (monoprint, collagraph block); intaglio (etching and engraving); and perigraphy (silkscreen films, stencils, block-out). These courses emphasize design elements and principles and introduce art criticism as applied to fine art prints. Lessons may also include the historical development of printmaking in Western and non-Western cultures.

#### **Sculpture 1**

Course #: 07096001

Credit Type: **Fine Arts**

Credit: 0.5

Grade Level: 9-12

Pre-Req: Design Fundamentals

This course is designed for students interested in learning the techniques of modeling, constructing, carving, and molding three-dimensional forms using a variety of techniques and materials. Materials may include clay, wood, paper, and metals. There will be group and individual projects.

#### **Sculpture 2**

Course #: 07106021

Credit Type: **Fine Arts**

Credit: 0.5

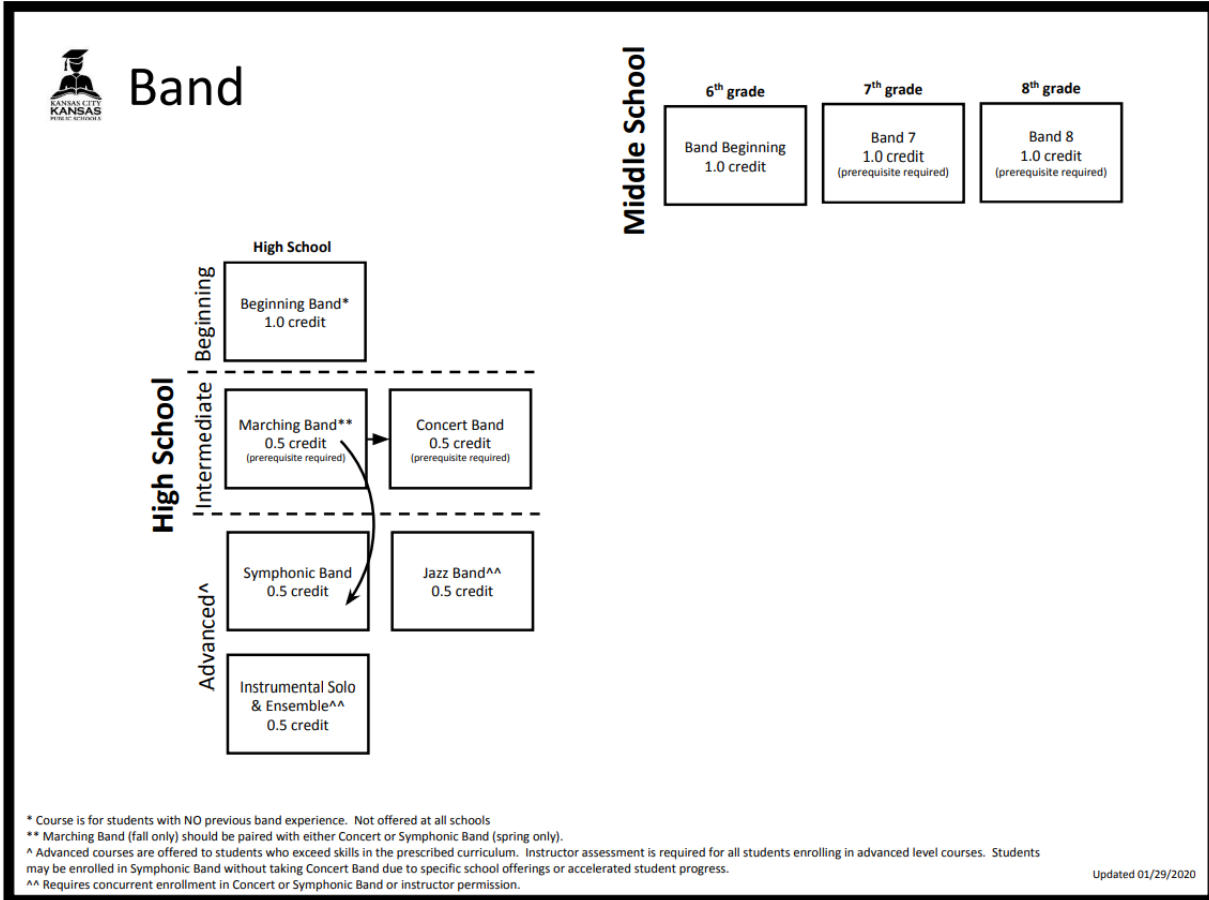
Grade Level: 9-12

Pre-Req: Sculpture 1

Sculpture 2 is an extension of Sculpture 1. Students will expand their three-dimensional experience by creating more advanced projects as well as by developing a deeper understanding of composition. A variety of media will be used including clay, wood, paper, and metals.

## Band – High School

Course Name	Credit Type	Credit	College Credit	Pre/Co-Req	Grade	Other Information
Beginning Band	Fine Arts	1.0	No	No	9-12	For students with no previous instrument experience
Marching Band	Fine Arts	0.5	No	Yes	9-12	Can be taken multiple times
Concert Band	Fine Arts	0.5	No	Yes	9-12	Can be taken multiple times
Symphonic Band	Fine Arts	0.5	No	Yes	9-12	Can be taken multiple times
Jazz Band	Fine Arts	0.5	No	Yes	9-12	Can be taken multiple times
Instrumental Solo & Ensemble	Fine Arts	0.5	No	Yes	9-12	Can be taken multiple times



### Beginning Band

Course #: 08095002  
 Credit: 1.0

Credit Type: Fine Arts  
 Grade Level: 9-12

Beginning band is for students with no prior band experience. Emphasis will be on music reading, rhythmic counting, technical skills, and tone production to prepare for advancement to the high school band.

### Marching Band

Course #: 08095021  
 Credit: 0.5  
 Pre-Req: previous middle school band experience  
 Co-Req: Concert or Symphonic Band

Credit Type: Fine Arts  
 Grade Level: 9-12

Marching Band is the primary performing group for band students during the fall semester. Emphasis will be placed on music literacy and marching fundamentals. Marching Band is a co-curricular course: students are assessed on skills that are demonstrated both during and

outside of the school day; evening and weekend activities are required. At the conclusion of the marching season, students will enroll for a second semester Concert or Symphonic Band at the discretion of the instructor. This course may be taken for credit in multiple years. .

#### Concert Band

Course #: 08095031

Credit Type: Fine Arts

Credit: 0.5

Grade Level: 9-12

Pre-Req: Symphonic Band or Marching Band

Concert Band provides a continuation of the skills developed in 8th grade band by students in grades 9-12. Students enrolled in marching band during the fall semester may enroll in this class during the spring semester. Emphasis will be placed on instrumental technique and ensemble skills. Concert Band is a co-curricular course: students are assessed on skills that are demonstrated both during and outside of the school day; evening and weekend activities are required. This course may be taken for credit in multiple years.

#### Symphonic Band

Course #: 08095041

Credit Type: Fine Arts

Credit: 0.5

Grade Level: 9-12

Pre -Req: Instructor Approval

Symphonic Band is an advanced performing ensemble for students who play wind and percussion instruments and exceed prescribed skills in the GVC. Students enrolled in marching band in the fall semester may be eligible for this course during the spring semester. Symphonic Band is a co-curricular course: students are assessed on skills that are demonstrated both during and outside of the school day; evening and weekend activities are required, including concerts, festivals, and state-level performances. This course may be taken for credit in multiple years.

#### Jazz Band

Course #: 08097013

Credit Type: Fine Arts

Credit: 0.5

Grade Level: 9-12

Pre-Req: Symphonic Band or Marching Band AND Instructor Approval

Jazz Band is an advanced instrumental ensemble for students in grades 9-12 who exceed prescribed skills in the curriculum. Members will study various styles of jazz literature including jazz, swing, rock, and contemporary. Improvisation will be taught in various styles. Jazz Band is a co-curricular course: students are assessed on skills that are demonstrated both during and outside of the school day; evening and weekend activities are required. Jazz Band members may be required to participate in marching band or orchestra. This course may be taken for credit in multiple years.

#### Instrumental Solo & Ensemble

Course #: 08109012

Credit Type: Fine Arts

Credit: 0.5

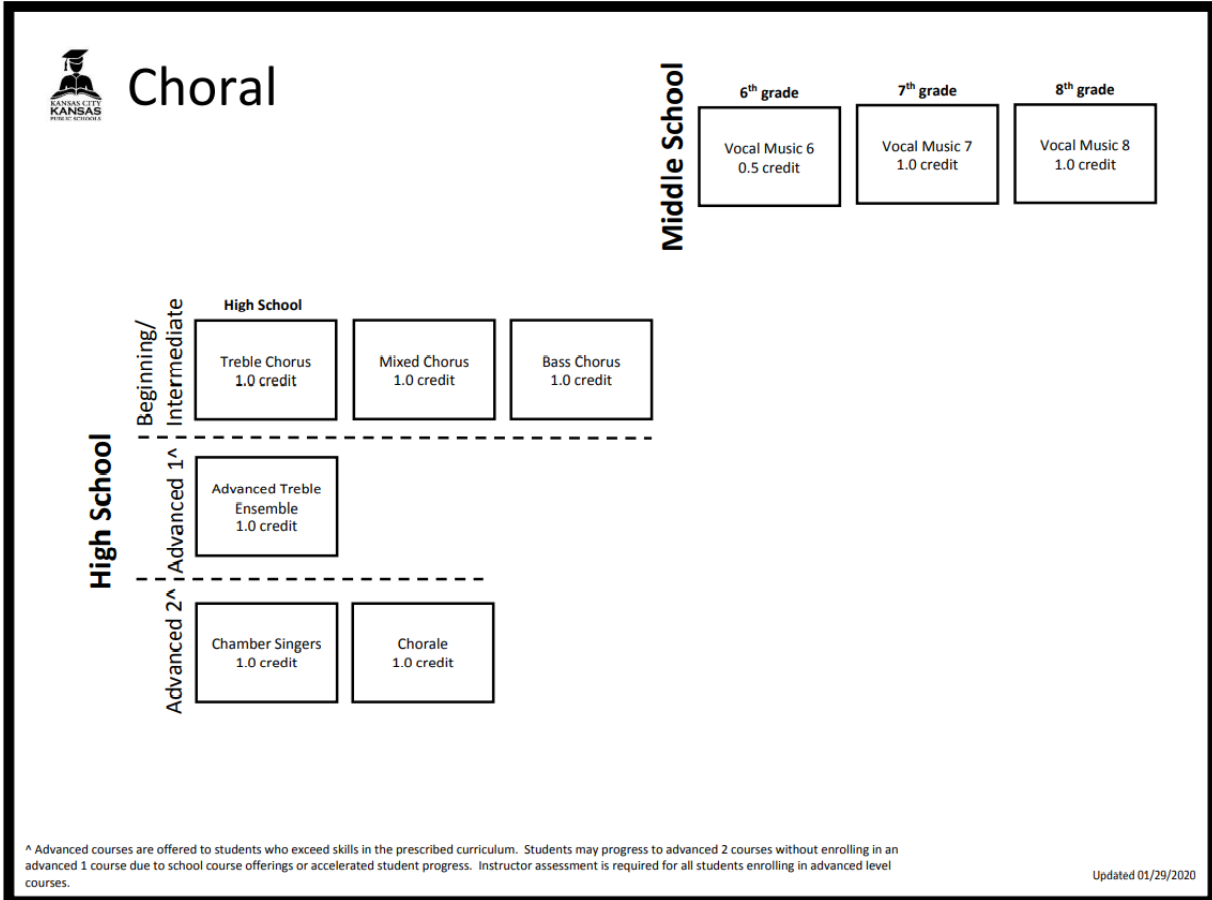
Grade Level: 9-12

Pre-Req: Instructor Approval

Instrumental Solo/Ensemble is for advanced students who exceed prescribed skills in the curriculum. Students will receive both individual and group instruction on a variety of technical studies, solo, and ensemble literature. Participation in concerts, festivals, and other performances may be required. This course may be taken for credit in multiple years.

## Choral – High School

Course Name	Credit Type	Credit	College Credit	Pre/Co-Req	Grade	Other Information
Treble Chorus	Fine Arts	1.0	No	No	9-12	Can be taken multiple times
Mixed Chorus	Fine Arts	1.0	No	No	9-12	Can be taken multiple times
Bass Chorus	Fine Arts	1.0	No	No	9-12	Can be taken multiple times
Advanced Treble Ensemble	Fine Arts	1.0	No	Yes	9-12	
Chamber Singers	Fine Arts	1.0	No	Yes	9-12	
Chorale	Fine Arts	1.0	No	Yes	9-12	



### Treble Chorus

Course #: 08093001  
Credit: 1.0

Credit Type: Fine Arts  
Grade Level: 9-12

Treble Chorus is a training organization for soprano and alto voices, designed to develop basic vocal technique, music literacy, and performance skills. This is a co-curricular course: students are assessed on skills that are demonstrated both during and outside of the school day. Attendance is required at both in and out-of-school rehearsals and performances. This course may be taken for credit in multiple years.

### Mixed Chorus

Course #: 08093012  
Credit: 1.0

Credit Type: Fine Arts  
Grade Level: 9-12

Mixed Chorus is a training organization for mixed voices, designed to develop basic vocal technique, music literacy, and performance skills. This is a co-curricular course: students are assessed on skills that are demonstrated both during and outside of the school day. Attendance is required at both in and out-of-school rehearsals and performances. This course may be taken for credit in multiple years.

### **Bass Chorus**

Course #: 08092011  
Credit: 1.0

Credit Type: **Fine Arts**  
Grade Level: 9-12

Bass Chorus is a training organization for tenor and bass voices, designed to develop basic vocal technique, music literacy, and performance skills. This is a co-curricular course: students are assessed on skills that are demonstrated both during and outside of the school day. Attendance is required at both in and out-of-school rehearsals and performances. This course may be taken for credit in multiple years.

### **Advanced Treble Ensemble**

Course #: 08102030  
Credit: 1.0  
Pre-Req: Instructor Approval

Credit Type: **Fine Arts**  
Grade Level: 9-12

Advanced Treble Ensemble is an intermediate choral ensemble for students with treble voices who exceed prescribed skills in the curriculum. Students in this choir will perform choral literature from a variety of styles; instruction is focused on the development of individual vocal technique and ensemble performance skills. This is a co-curricular course: students are assessed on skills that are demonstrated both during and outside of the school day; evening activities are required. This course may be taken for credit in multiple years.

### **Chamber Singers**

Course #: 08103042  
Credit: 1.0  
Pre-Req: Instructor Approval

Credit Type: **Fine Arts**  
Grade Level: 9-12

Chamber Singers is an advanced, small, mixed ensemble for students who exceed prescribed skills in the curriculum. Participants study and perform literature in various musical styles and learn advanced vocal and choral techniques. Chamber singers is a co-curricular course: students are assessed on skills that are demonstrated both during and outside of the school day; evening and weekend activities are required. This course may be taken for credit in multiple years.

### **Chorale**

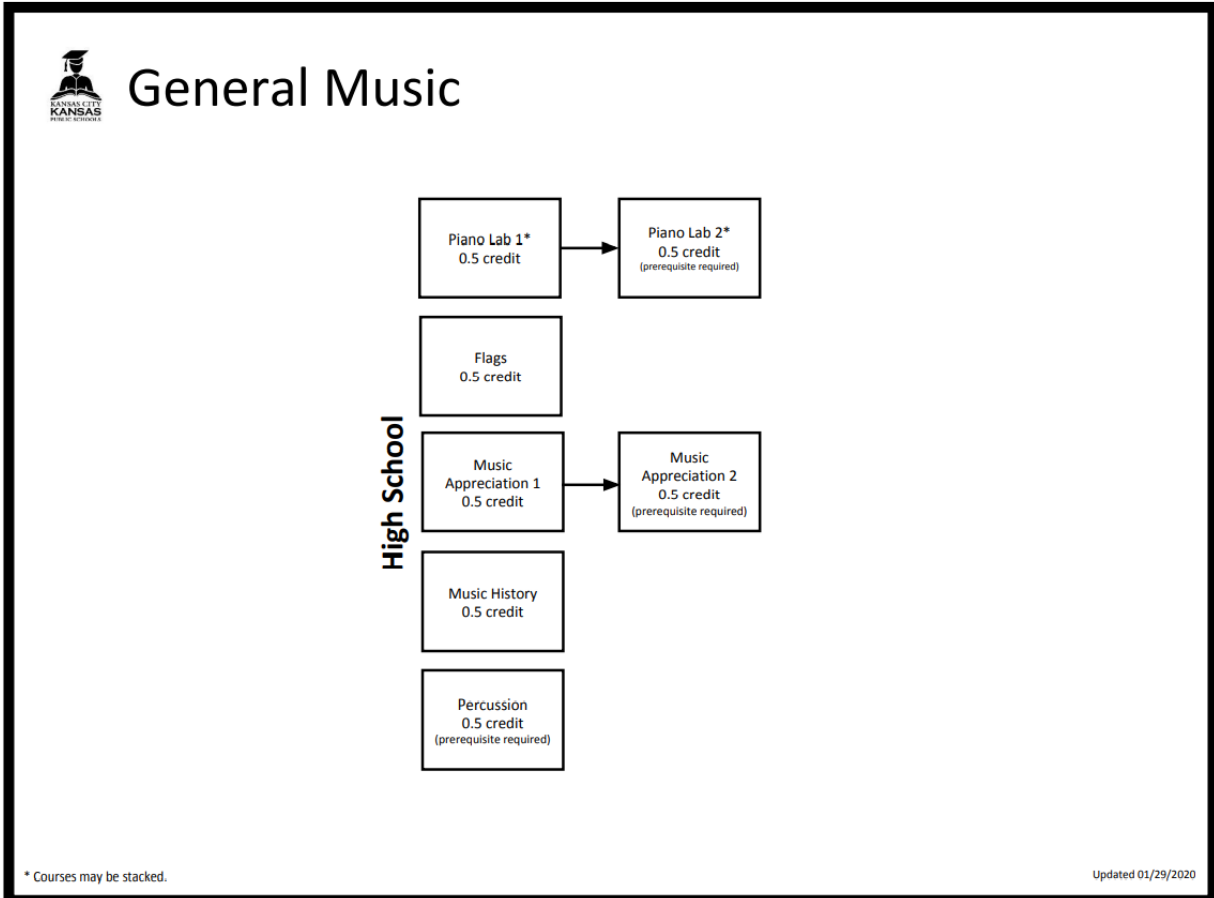
Course #: 08103062  
Credit: 1.0  
Pre-Req: Instructor Approval

Credit Type: **Fine Arts**  
Grade Level: 9-12

Chorale is a large, advanced, choral ensemble for students who exceed prescribed skills in the curriculum. Students in this choir will study and perform literature in various musical styles and learn advanced vocal and choral technique. This is a co-curricular course: students are assessed on skills that are demonstrated both during and outside of the school day; evening activities are required. This course may be taken for credit in multiple years.

## General Music – High School

Course Name	Credit Type	Credit	College Credit	Pre/Co-Req	Grade	Other Information
Flags	Fine Arts	0.5	No	No	9-12	Can be taken multiple times
Music Appreciation 1	Fine Arts	0.5	No	No	9-12	
Music Appreciation 2	Fine Arts	0.5	No	Yes	9-12	
Music History	Fine Arts	0.5	No	No	9-12	
Music IBS	Fine Arts	1.0	No	No	11-12	Sumner Academy ONLY
Percussion	Fine Arts	0.5	No	Yes	9-12	Can be taken multiple times
Piano Lab 1	Fine Arts	0.5	No	No	9-12	Can be taken multiple times
Piano Lab 2	Fine Arts	0.5	No	No	9-12	Can be taken multiple times



### Flags

Course #: 08096021  
Credit: 0.5

Credit Type: Fine Arts  
Grade Level: 9-12

Flags is a class for students who wish to be involved in the marching band color guard for the school. Students enrolled in this class will learn and execute intricate synchronized drills to be performed with and without the marching band, with attention to precise choreographed physical movement that involves the manipulation of various flags and props. This is a co-curricular course: students will be assessed on skills demonstrated both during and outside of the school day; evening and weekend activities are required. This course may be taken for credit in multiple years.

### Music Appreciation 1

Course #: 08098011  
Credit: 0.5

Credit Type: Fine Arts  
Grade Level: 9-12

Music Appreciation 1 is a non-performance, semester-course open to all students in grades 9-12. Students will focus on listening skills and highlights and will learn basic elements of music and of music history. They will also be exposed to various types of musical styles including hip-hop, classical, jazz, and rock and roll.

#### **Music Appreciation 2**

Course #: 08098021  
Credit: 0.5  
Pre-Req: Music Appreciation 1

Credit Type: Fine Arts  
Grade Level: 9-12

Music Appreciation 2 is a continuation of Music Appreciation 1 and offers students opportunities to create, perform, listen to and analyze music. This course surveys music from diverse cultures and is an active study of music's importance in students' lives.

#### **Music History**

Course #: 08118051  
Credit: 0.5

Credit Type: Fine Arts  
Grade Level: 9-12

Music History is an introduction to music from a historic perspective through perceptive listening and an introduction to musical elements, forms, and stylistic periods. Discussions of composers' lives, individual styles, and their musical compositions are designed to impact facts and stimulate curiosity and enthusiasm.

#### **Music IBS**

Course #: 08148020  
Credit: 1.0

Credit Type: Fine Arts  
Grade Level: 11-12

(Sumner Academy ONLY) IB Music courses prepare students to take the International Baccalaureate Music exam at either the Subsidiary or Higher level. IB Music courses develop students' knowledge and understanding of music through training in musical skills (listening, performing, and composing); exposure to music theory; and formulation of an historic and global awareness of musical forms and styles. Historical, theoretical, and practical studies are suggested by the IB Curriculum Board.

#### **Percussion**

Course #: 08095051  
Credit: 0.5  
Pre-Req: Symphonic Band or Marching Band

Credit Type: Fine Arts  
Grade Level: 9-12

Percussion is for students who play a percussion instrument. Enrollment in Marching Band may be required. Emphasis will be placed on percussion fundamentals. Mallet instruments, keyboard techniques, and note and rhythm reading will be stressed. Although some school owned instruments are available for use for a yearly fee, students are encouraged to acquire their own instruments.

#### **Piano Lab 1**

Course #: 08108031  
Credit: 0.5

Credit Type: Fine Arts  
Grade Level: 9-12

Piano Lab 1 is an introduction to the keyboard and the fundamentals of music for students. The curriculum includes note reading, chording, playing scales and single line melodies with chordal accompaniment, transposing, and experience in the various styles and techniques of piano playing. This course may be taken for credit in multiple years.

#### **Piano Lab 2**

Course #: 08108041  
Credit: 0.5

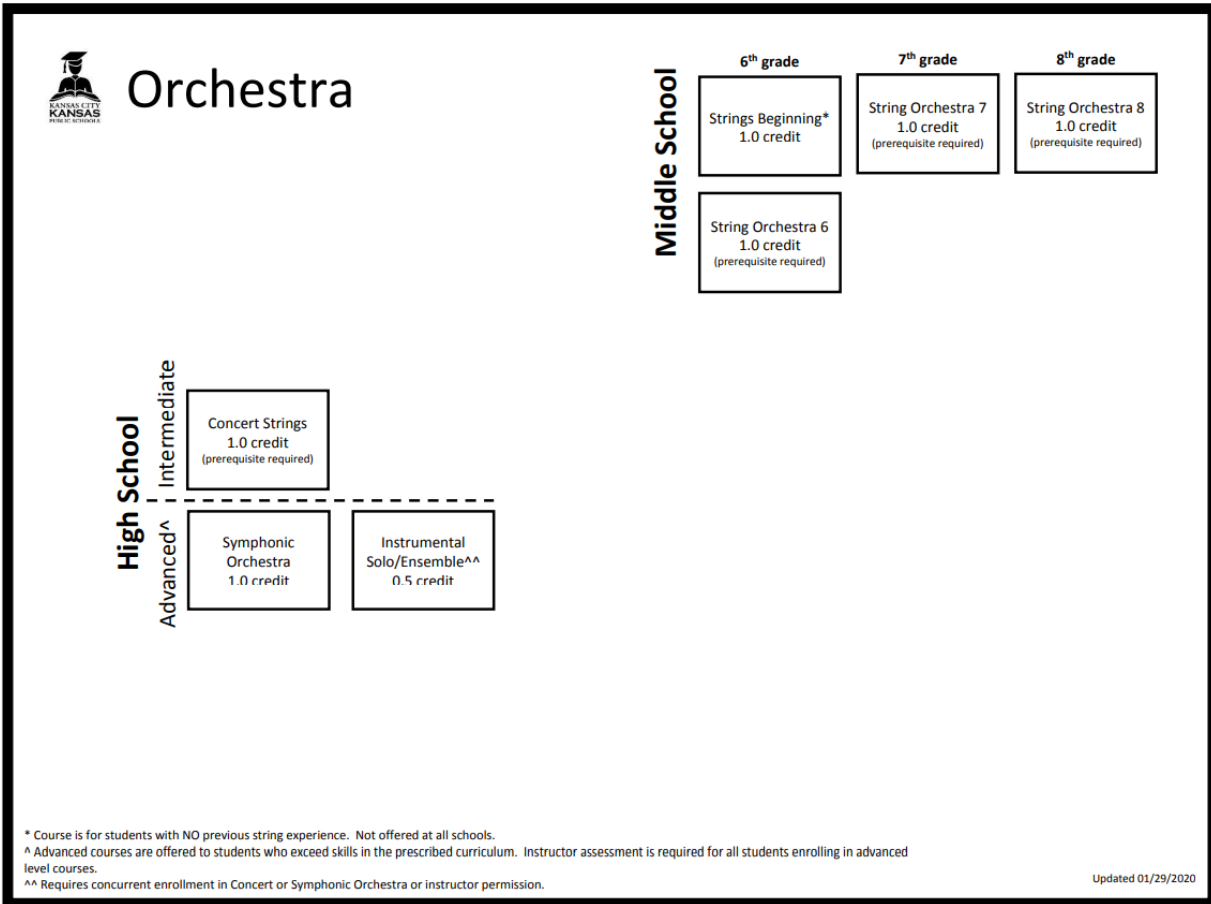
Credit Type: Fine Arts  
Grade Level: 9-12

Piano Lab 2 is a continuation of the skills learned in Piano Lab 1. The course places a concentration on theory skills: intervals, chords, inversions, minor scales, cadences, composition, and advanced piano techniques. This course may be taken for credit in multiple years.



## Orchestra – High School

Course Name	Credit Type	Credit	College Credit	Pre/Co-Req	Grade	Other Information
Concert Strings	Fine Arts	1.0	No	Yes	9-12	Can be taken multiple times
Symphonic Orchestra	Fine Arts	1.0	No	Yes	9-12	Can be taken multiple times
Instrumental Solo/Ensemble	Fine Arts	0.5	No	Yes	9-12	Can be taken multiple times



### Concert Strings

Course #: 08094012

Credit: 1.0

Pre-Req: previous string experience

Credit Type: Fine Arts

Grade Level: 9-12

Concert Strings provides a continuation of the skills developed in 8th grade orchestra by students in grades 9-12. Concert Strings is a co-curricular course: students are assessed on skills that are demonstrated both during and outside of the school day; evening and weekend activities are required. This course may be taken for credit in multiple years.

### Symphonic Orchestra

Course #: 08094022

Credit: 1.0

Pre-Req: Instructor Approval

Credit Type: Fine Arts

Grade Level: 9-12

Symphonic Orchestra is an advanced performing ensemble for students in grades 9-12 who play string instruments and exceed prescribed skills in the curriculum. This is a co-curricular course: students are assessed on skills that are demonstrated both during and outside of the school day; evening and weekend activities are required. This course may be taken for credit in multiple years.

### Instrumental Solo/Ensemble

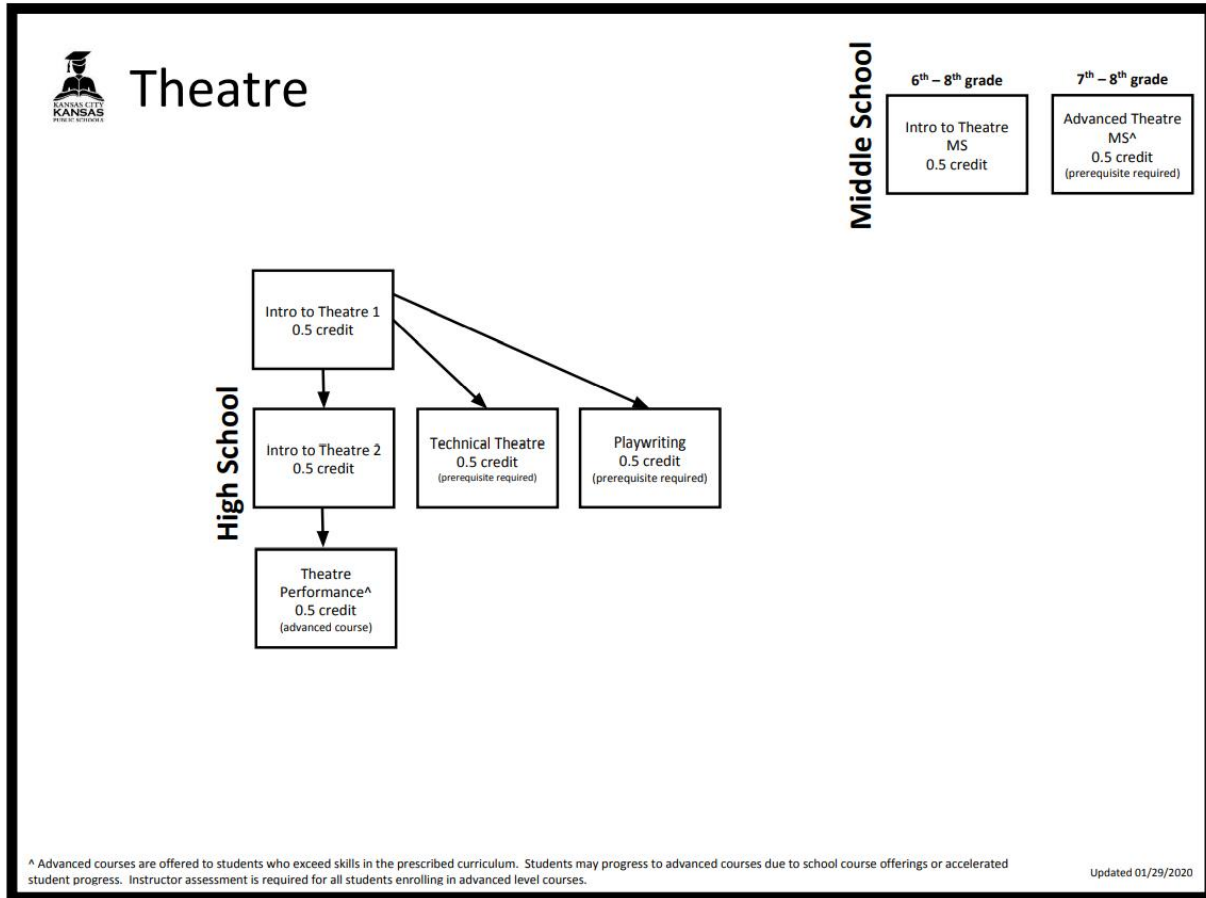
Course #: 08109012  
Credit: 0.5  
Pre-Req: Instructor Approval

Fine Arts  
Grade Level: 9-12

Instrumental Solo/Ensemble is for advanced students who exceed prescribed skills in the curriculum. Students will receive both individual and group instruction on a variety of technical studies, solo, and ensemble literature. Participation in concerts, festivals, and other performances may be required. This course may be taken for credit in multiple years.

## Theatre – High School

Course Name	Credit Type	Credit	College Credit	Pre/Co-Req	Grade	Other Information
Introduction to Theatre 1	Fine Arts	0.5	No	No	9-12	
Introduction to Theatre 2	Fine Arts	0.5	No	Yes	9-12	
Playwriting	Fine Arts	0.5	No	No	9-12	Can be taken multiple times
Technical Theatre	Fine Arts	0.5	No	Yes	9-12	Can be taken multiple times
Theatre Performance	Fine Arts	0.5	No	Yes	9-12	Can be taken multiple times



### Introduction to Theatre 1

Course #: 09091120  
Credit: 0.5

Credit Type: Fine Arts  
Grade Level: 9-12

Intro to Theatre 1 provides students with an introductory experience to the world of theatre. This course serves as an overview of performance and principles of acting, playwriting, improvisation, theater organization, basic set construction and lighting, careers in the theater, directing, and management. Students will work individually and in groups to present in-class performances. This course may be taken for credit in multiple years.

### Introduction to Theatre 2

Course #: 09101012  
Credit: 0.5  
Pre-Req: Intro to Theatre 1

Credit Type: Fine Arts  
Grade Level: 9-12

Intro to Theatre 2 is an extension of Intro to Theatre 1. The course provides the opportunity for continued development of skills, focusing on physical and vocal expression for the actor, and work in characterization, script analysis, and acting styles. This course may be taken for credit in multiple years.

### **Playwriting**

Course #: 09102021  
Credit: 0.5

Credit Type: **Fine Arts**  
Grade Level: 9-12

Playwriting introduces the craft of writing for the theater. Students will use brainstorming and improvisational techniques to generate original scripts for stage production and will explore scene structure, action, events, voice, and dialogue with an emphasis on process, risk-taking, and finding one's own voice and vision. This course may be taken for credit in multiple years

### **Technical Theatre**

Course #: 09102012  
Credit: 0.5  
Pre-Req: Intro to Theatre 2

Credit Type: **Fine Arts**  
Grade Level: 9-12

Technical Theatre offers training in the skills of scene design, set construction, electricity, and stage lighting. Students in this course may develop technical elements for any of the school's theater productions. Some evening activities may be required. This course may be taken for credit in multiple years.

### **Theatre Performance**

Course #: 09111020  
Credit: 0.5  
Pre-Req: Intro to Theatre 2

Credit Type: **Fine Arts**  
Grade Level: 9-12

Theatre Performance will deepen the study of ensemble performance, scripted and improvised acting, playwriting, directing and theatre history. Students will work individually and collaboratively to present theatrical performances. Some evening activities may be required. This course may be taken for credit in multiple years.

## Career and Technical Education Pathways

### The Goal of Career and Technical Education

Career and technical education (CTE) prepares learners for high-wage, high-skill, high-demand careers. The goal of CTE is to prepare students to be college- and career-ready by integrating academic, employability, and technical skills. Through clear career pathways and postsecondary partnerships, CTE provides students with a rigorous and relevant curriculum that will allow students to successfully transition to life after graduation. Career and technical education provides students with skills to launch them into a successful career or postsecondary track. CTE students are more engaged and perform better in school.

### Diploma+ and CTE

KCKPS wants students to leave high school with more than just a diploma. We are transforming learning to provide our students with the experiences necessary to propel them into a successful career or college experience. Diploma+ begins at the preschool and elementary levels to build a strong academic foundation, develop social and emotional skills, and expose students to careers. Once students transition to middle school, students are provided with the opportunity to explore college and career through field trips, hands-on learning experiences, guest speakers, and career exploration tools. By the time a student enters high school, students can then deeply explore their career interests through our CTE pathways. Our CTE pathways allow students to learn technical skills related to their career interest and develop employability skills needed to successfully transition to life after graduation. Each CTE pathway provides students with experiences that provide real-world learning in the industry they are exploring. Our goal is to see all students graduate with a Diploma+ endorsement and our CTE pathways are one avenue for students to obtain an endorsement.

### Current CTE Pathways in KCKPS

The CTE pathways available in our district are shown on this graphic of the Kansas Department of Education sunflower.



### How to Pick Classes in CTE

On the pages that follow, you will see information about our CTE pathways in the district. You will notice classes within each pathway are at different levels. We encourage students to begin their journey through a pathway at the lowest level (introductory or technical levels) and work up to the top levels (application and career preparation levels). Our goal is to see a student earn at least 2 credits in one pathway. We have also noted suggested classes that a student could take to supplement the classes within each pathway. These are not required, but great classes for a student who wants to incorporate classes outside of CTE in their preparation for college or career.

## CTE – Media & Technology

### Programming & Software Development

Available at all campuses

Computer Science coursework helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. PLTW is recognized by the College Board as an endorsed provider of curriculum and professional development for AP<sup>®</sup> Computer Science Principles (AP CSP). This endorsement affirms that all components of PLTW CSP's offerings are aligned to the AP Curriculum Framework standards and the AP CSP assessment.

#### Courses in this Pathway:

Level	CTE Course Name	Pre-requisites or Co-requisites	Credits
<b>Technical</b>	Computer Science Essentials	None	1.0
	Computer Science Principles AP	Computer Science Essentials (Pre-req)	1.0
	Computer Programming	None	1.0
	Web Page Design	None	1.0
<b>Application</b>	Computer Science A AP	Computer Science Principles AP (Pre-req)	1.0
	Cyber Security	Computer Science Essentials (Pre-req)	1.0
	Particular Topics in Computer Programming	At least 1 credit in Pathway (Pre-req)	1.0
<b>Career Prep</b>	Programming Capstone	At least 2 credits in Pathway (Pre-req)	1.0
	Work Based Learning Experience (coming in 2022-2023)	Programming Capstone (Pre-req)	1.0

#### Supplemental programs that Relate to this Pathway:

- Tech Impact
- KCKCC TEC – (Fill in later)

#### Computer Science A AP

Course #: 10116011

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Computer Science Principles AP

(Advanced Placement and Pre-AP courses are available for high school students. The exact courses scheduled at a building each school year depend on student interest and instructor availability. See the school counselor for additional information.) AP Computer Science A focuses on further developing computational-thinking skills through the medium of Android™ App development for mobile platforms. The course utilizes industry-standard tools such as Android Studio, Java™ programming language, XML, and device emulators. Students collaborate to create original solutions to problems of their own choosing by designing and implementing user interfaces and Web-based databases.

#### Computer Science Essentials

Course #: 10094011

Credit Type: [Career & Technical](#)

Credit: 1.0

Computer Science Essentials introduces students to the world of computer science through project-based learning. Students will begin the semester learning to use block-based programming to develop usable apps. Then they will transition to programming environments that display both block programming and text-based programming side-by-side. Finally, students will be introduced to the Python® programming language.

#### Computer Science Principles AP

Course #: 10106011

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Computer Science Essentials

(Advanced Placement and Pre-AP courses are available for high school students. The exact courses scheduled at a building each school year depend on student interest and instructor availability. See the school counselor for additional information.) Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. This course helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation.

#### Computer Programming

Course #: 10104015

Credit Type: [Career & Technical](#)

Credit: 1.0

Computer Programming students gain knowledge and skills necessary to construct computer programs in one or more programming languages. Initially, students learn to structure, create, document, and debug computer programs. More emphasis is placed on design, style, clarity, and efficiency as skills progress. Students may apply the skills they learn to relevant applications such as modeling, data management, graphics, and text-processing.

### **Cybersecurity**

Course #: 10127031

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Computer Science Essentials

Students develop an understanding of cybersecurity and information assurance. Students will learn how to develop secure systems in terms of hardware, software, and the human-computer interface, including aspects of cryptography and secure computer and network interactions. Successful participants will develop a way of thinking that is security-oriented, better understanding how to think about adversaries and how to build systems that defend against them.

### **Particular Topics Computer Programming**

Course #: 10121011

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: At least 1 credit in the pathway

This course expands a student's knowledge of computer science by diving into topics not introduced in other courses, such as data structures, advanced algorithms, and object characteristics.

### **Programming Capstone**

Course #: **TBD**

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: At least 2 credits in the pathway

The goal of the capstone is to focus on career preparation experience by deepening student knowledge and skill development for success in employment and postsecondary education. This course is recommended for students planning to enter the workforce directly after high school or enrolling in a postsecondary training program related to the career pathway. This course is structured to give students extensive practice in applying technical and practical skills in their chosen career.

### **Web Page Design**

Course #: 11105015

Credit Type: [Career & Technical](#)

Credit: 1.0

Web Page Design introduces knowledge and skills for site planning, page layout, graphic design, and the use of markup languages such as Extensible Hypertext Markup, JavaScript, Dynamic HTML, and Document Object Model. Students will be able to develop and maintain a web page, understanding topics such as security and privacy issues, copyright infringement, trademarks, and other legal issues.

### **Work Based Learning Experience (coming in 2022-2023)**

Course #: **TBD**

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Programming Capstone

Work Based Learning Experience is a culminating pathway opportunity that allows students to use the skills they have learned in the real-world. Students will be enrolled in this course by their counselor after they have successfully applied, interviewed for, and been offered an internship. Students will be supervised by a pathway coordinator throughout the internship.

## Web & Digital Communications

Available at J. C. Harmon and Wyandotte

The Web and Digital Communications pathway prepares students for careers related to design, development, support, and management of software, multimedia, communication, and systems integration. Coursework focuses on building technical skills in working with clients to produce digital content that is informational, promotional, offers a service, manages transactions, or elicits an emotional response. Students build a firm understanding of both the business and artistic sides of web and graphic design.

### Courses in this Pathway:

Level	CTE Course Name	Pre-requisites or Co-requisites	Credits
<b>Technical</b>	Internet Marketing	None	1.0
	Computer Graphics 1	None	1.0
	Computer Programming	None	1.0
	Web Page Design	None	1.0
	Graphic Design 2	Computer Graphics 1 (Pre-req)	1.0
	Animation	Computer Graphics 1 (Pre-req)	1.0
<b>Application</b>	Particular Topics in Media Technology	At least 2 credits in Pathway (Pre-req)	1.0
<b>Career Prep</b>	Web & Digital Capstone	At least 2 credits in Pathway (Pre-req)	1.0
	Work Based Learning Experience (coming in 2022-2023)	Web & Digital Capstone (Pre-req)	1.0

### Supplemental programs that Relate to this Pathway:

- TBD

#### Animation

Course #: 10105021

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Computer Graphics 1

This course emphasizes the development of digitally generated and/or computer-enhanced media, including 2D and 3D spatial elements, graphic representation, management of movement, environmental representation (including texture, color, value, form, line, and space), recording media, and distribution tools and methodologies. Students learn programming sequences and methodologies as they are integrated into actions of the characters creating new behaviors.

#### Computer Graphics 1

Course #: 10107021

Credit Type: [Career & Technical](#)

Credit: 1.0

Computer Graphics 1 students explore the capability of the computer to produce visual imagery. They learn to apply graphic techniques to various fields, such as advertising, TV/video, and architecture. Typical course topics include modeling, simulation, animation, and image retouching.

#### Computer Programming

Course #: 10104015

Credit Type: [Career & Technical](#)

Credit: 1.0

Computer Programming students gain knowledge and skills necessary to construct computer programs in one or more programming languages. Initially, students learn to structure, create, document, and debug computer programs. More emphasis is placed on design, style, clarity, and efficiency as skills progress. Students may apply the skills they learn to relevant applications such as modeling, data management, graphics, and text-processing.

#### Graphic Design 2

Course #: 10107025

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Graphic Design 1

Graphic Design 2 builds on skills learned in Computer Graphics 1 or Graphic Design 1. The course emphasizes using design elements and principles in the purposeful arrangement of images and text to communicate a message through art products like advertisements and product designs. Students may investigate the computers influence on and role in creating contemporary designs and study cultural and historical master design works of different periods and styles.

#### Internet Marketing

Course #: 11105031

Credit Type: [Career & Technical](#)

Credit: 1.0



Internet Marketing covers the principles of marketing from the standpoint of conducting business on the internet. Topics include: the internet as a marketing tool, conducting a marketing analysis via the internet, planning marketing support activities, managing an electronic marketing campaign, managing/owning a business via the internet, and analyzing the impact of the internet on global marketing.

#### Particular Topics in Media Technology

Course #: 10128017

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: At least 2 credit in the pathway

This course expands a student's knowledge of media technology by diving into topics not introduced in other courses, such as managing cross layer imaging, color separation, and sound integration.

#### Web & Digital Capstone

Course #: **TBD**

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: At least 2 credits in the pathway

The goal of the capstone is to focus on career preparation experience by deepening student knowledge and skill development for success in employment and postsecondary education. This course is recommended for students planning to enter the workforce directly after high school or enrolling in a postsecondary training program related to the career pathway. This course is structured to give students extensive practice in applying technical and practical skills in their chosen career.

#### Web Page Design

Course #: 11105015

Credit Type: [Career & Technical](#)

Credit: 1.0

Web Page Design introduces knowledge and skills for site planning, page layout, graphic design, and the use of markup languages such as Extensible Hypertext Markup, JavaScript, Dynamic HTML, and Document Object Model. Students will be able to develop and maintain a web page, understanding topics such as security and privacy issues, copyright infringement, trademarks, and other legal issues.

#### Work Based Learning Experience (coming in 2022-2023)

Course #: **TBD**

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Web & Digital Capstone

Work Based Learning Experience is a culminating pathway opportunity that allows students to use the skills they have learned in the real-world. Students will be enrolled in this course by their counselor after they have successfully applied, interviewed for, and been offered an internship. Students will be supervised by a pathway coordinator throughout the internship.

## Digital Media

Available at F. L. Schlagle, Sumner Academy, Washington, and Wyandotte

Courses in the Digital Media pathway focus on the development of skills to share a message, feeling, or emotion through digital means. Digital Media classes focus on 21<sup>st</sup> century journalism and electronic story telling through photography, video, and digital means. Students explore the dynamic landscape of social media and today's information driven society.

### Courses in this Pathway:

Level	CTE Course Name	Pre-requisites or Co-requisites	Credits
<b>Introductory</b>	Business Essentials	None	0.5
<b>Technical</b>	Graphic Design 1	None	0.5
	Digital Media Technology	None	0.5
	21 <sup>st</sup> Century Journalism	None	0.5
	Audio/Video Production Fundamentals	None	0.5
	Photo Imagine	None	0.5
	Graphic Design 2	Graphic Design 1 (Pre-req)	1.0
<b>Application</b>	Video Production	Audio/Video Production Fundamentals (Pre-req)	1.0
	Digital Media Design & Production	At least 2 credits in Pathway (Pre-req)	1.0
<b>Career Prep</b>	Digital Media Capstone	At least 2 credits in Pathway (Pre-req)	1.0
	Work Based Learning Experience (coming in 2022-2023)	Digital Media Capstone (Pre-req)	1.0

### Supplemental programs that Relate to this Pathway:

- TBD

#### 21<sup>st</sup> Century Journalism

Course #: 13103011

Credit Type: [Career & Technical](#)

Credit: 0.5

In 21<sup>st</sup> Century Journalism students will study types of media and the role of the communications industry in society. Journalistic writing and interviewing skills will be developed with an understanding of the ethical and legal issues of this field.

#### Audio/Video Production Fundamentals

Course #: 131103019

Credit Type: [Career & Technical](#)

Credit: 0.5

Audio Video Production Fundamentals provides a basic understanding of producing video for a variety of uses. Topics include equipment and techniques used to develop a quality A/V product. Students will also analyze the pre-production, production and post-production process.

#### Business Essentials

Course #: 11093021

Credit Type: [Career & Technical](#)

Credit: 0.5

Business Essentials provides a foundation for students as they are beginning to learn about the world of business. Students will examine current events to determine their impact on business and industry and legal and ethical behavior. Students will investigate how to make a business productive and how to manage company resources to achieve goals. Finally, students will be able to identify employability and personal skills needed to obtain a career and be successful in the workplace.

#### Digital Media Capstone

Course #: TBD

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: At least 2 credits in the pathway

The goal of the capstone is to focus on career preparation experience by deepening student knowledge and skill development for success in employment and postsecondary education. This course is recommended for students planning to enter the workforce directly after high school or enrolling in a postsecondary training program related to the career pathway. This course is structured to give students extensive practice in applying technical and practical skills in their chosen career.

#### Digital Media Design & Production

Course #: 13125011

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: At least 2 credits in the pathway

Digital Media Design and Production students will produce a multimedia project for public presentation by building on the skills learned in Digital Media Technology. Topics include: developing a production schedule, working as a team, utilizing composition principles, and embedding audio, video or other content in digital formats.

#### **Digital Media Technology**

Course #: 13103013  
Credit: 0.5

Credit Type: [Career & Technical](#)

Digital Media Technology teaches the technical skills needed to work with electronic media. Topics include: the use of digital imaging and video, a study of the relationship of work flow to project planning, and the software, equipment and tools used in the industry.

#### **Graphic Design 1**

Course #: 13103015  
Credit: 0.5

Credit Type: [Career & Technical](#)

Graphic Design 1 provides a basic understanding of the graphic design process. Topics include analyzing the design elements and principles, exploring industry tools, software and equipment and learning composition techniques to develop a quality product.

#### **Graphic Design 2**

Course #: 10107025  
Credit: 1.0  
Pre-Req: Graphic Design 1

Credit Type: [Career & Technical](#)

Graphic Design 2 builds on skills learned in Computer Graphics 1 or Graphic Design 1. The course emphasizes using design elements and principles in the purposeful arrangement of images and text to communicate a message through art products like advertisements and product designs. Students may investigate the computers influence on and role in creating contemporary designs and study cultural and historical master design works of different periods and styles.

#### **Photo Imaging**

Course #: 13105021  
Credit: 0.5

Credit Type: [Career & Technical](#)

Photo Imaging teaches the technical skills needed to produce quality images for use in a variety of applications. Students will learn how to use equipment and software to take, edit, and manipulate digital images.

#### **Video Production**

Course #: 13125015  
Credit: 1.0  
Pre-Req: Audio Video Production Fundamentals

Credit Type: [Career & Technical](#)

Video Production applies the technical skills learned in Audio Video Production Fundamentals by allowing students to develop projects. From setting the objectives to the post-production evaluation, students will organize projects that address an authentic need. Students will be responsible for planning the presentation, setting up the studio (if applies), acting as the videographer, and editor to produce a fluid and seamless product.

#### **Work Based Learning Experience (coming in 2022-2023)**

Course #: **TBD**  
Credit: 1.0  
Pre-Req: Digital Media Capstone

Credit Type: [Career & Technical](#)

Work Based Learning Experience is a culminating pathway opportunity that allows students to use the skills they have learned in the real-world. Students will be enrolled in this course by their counselor after they have successfully applied, interviewed for, and been offered an internship. Students will be supervised by a pathway coordinator throughout the internship.

## Graphic Design

Available at J. C. Harmon

The Graphic Design pathway focuses on the basics of technical design for two dimensional items which sell a message through images and words, rather than sound or video. Creative students will develop skills for sharing information, a feeling, or emotion through visual design. Courses place emphasis on applied art concepts in a digital environment.

### Courses in this Pathway:

Level	CTE Course Name	Pre-requisites or Co-requisites	Credits
<b>Technical</b>	Photo Imaging	None	0.5
	Graphic Design 1	None	0.5
	Computer Graphics 1	None	1.0
	Graphic Design 2	Graphic Design 1 or Computer Graphics 2 (Pre-req)	1.0
<b>Application</b>	Graphic Design Project Management	At least 2 credits in pathway (Pre-req)	1.0
<b>Career Prep</b>	Graphic Design Capstone	At least 2 credits in pathway (Pre-req)	1.0
	Work Based Learning Experience (coming in 2022-2023)	Graphic Design Capstone (Pre-req)	1.0

### Supplemental programs that Relate to this Pathway:

- TBD

#### Computer Graphics 1

Course #: 10107021  
Credit: 1.0

Credit Type: [Career & Technical](#)

Computer Graphics 1 students explore the capability of the computer to produce visual imagery. They learn to apply graphic techniques to various fields, such as advertising, TV/video, and architecture. Typical course topics include modeling, simulation, animation, and image retouching.

#### Graphic Design Capstone

Course #: **TBD**  
Credit: 1.0

Credit Type: [Career & Technical](#)

Pre-Req: At least 2 credits in pathway

The goal of the capstone is to focus on career preparation experience by deepening student knowledge and skill development for success in employment and postsecondary education. This course is recommended for students planning to enter the workforce directly after high school or enrolling in a postsecondary training program related to the career pathway. This course is structured to give students extensive practice in applying technical and practical skills in their chosen career.

#### Graphic Design 1

Course #: 13103015  
Credit: 0.5

Credit Type: [Career & Technical](#)

Graphic Design 1 provides a basic understanding of the graphic design process. Topics include analyzing the design elements and principles, exploring industry tools, software and equipment and learning composition techniques to develop a quality product.

#### Graphic Design 2

Course #: 10107025  
Credit: 1.0

Credit Type: [Career & Technical](#)

Pre-Req: Graphic Design 1 or Computer Graphics 2

Graphic Design 2 builds on skills learned in Computer Graphics 1 or Graphic Design 1. The course emphasizes using design elements and principles in the purposeful arrangement of images and text to communicate a message through art products like advertisements and product designs. Students may investigate the computers influence on and role in creating contemporary designs and study cultural and historical master design works of different periods and styles.

#### Graphic Design Project Management

Course #: 10125040  
Credit: 1.0

Credit Type: [Career & Technical](#)

Pre-req: At least 2 credits in the pathway

The Graphic Design Project Management course allows students gain skills necessary to manage projects within industry. Students must have approval from a teacher to take this application level course.

#### Photo Imaging

Course #: 13105021  
Credit: 0.5

Credit Type: [Career & Technical](#)

Photo Imaging teaches the technical skills needed to produce quality images for use in a variety of applications. Students will learn how to use equipment and software to take, edit, and manipulate digital images.

**Work Based Learning Experience (coming in 2022-2023)**

Course #: **TBD**  
Credit: 1.0

Credit Type: [Career & Technical](#)

Pre-Req: Graphic Design Capstone

Work Based Learning Experience is a culminating pathway opportunity that allows students to use the skills they have learned in the real-world. Students will be enrolled in this course by their counselor after they have successfully applied, interviewed for, and been offered an internship. Students will be supervised by a pathway coordinator throughout the internship.

## CTE - Health

### Biomedical

Available at F. L. Schlagle, Sumner Academy, and Wyandotte

By immersing students in activities like practicing suturing and constructing body structures from clay, PLTW Biomedical Science empowers students to build knowledge and skills in biomedical science, as well as in-demand, transportable skills like problem solving, critical and creative thinking, communication, and collaboration. Students explore the human body systems, delve into activities like designing prosthetics, and design their own innovative solutions for pressing health challenges.

#### Courses in this Pathway:

Level	CTE Course Name	Pre-requisites or Co-requisites	Credits
<b>Technical</b>	Principles of Biomedical Science	None	1.0
	Human Body Systems	Principles of Biomedical Science (Pre-req)	1.0
<b>Application</b>	Medical Interventions	Human Body Systems (Pre-req)	1.0
	Bioengineering	Human Body Systems (Pre-req)	1.0
<b>Career Prep</b>	Biomedical Capstone	At least 2 credits in pathway (Pre-req)	1.0
	Work Based Learning Experience (coming in 2022-2023)	Biomedical Capstone (Pre-req)	1.0

#### Supplemental programs that Relate to this Pathway:

- Bio+

#### Bioengineering

Course #: **TBD**

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Human Body Systems

Students will have the opportunity to develop projects that are responsive to real-world problems, using solutions that depend on biological technologies by learning the techniques, strategies and vocabulary related to the engineering of synthetic biological systems. This subject will provide an engaging introduction for would-be biological engineers.

#### Biomedical Capstone

Course #: **TBD**

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: At least 2 credits in pathway

The goal of the capstone is to focus on career preparation experience by deepening student knowledge and skill development for success in employment and postsecondary education. This course is recommended for students planning to enter the workforce directly after high school or enrolling in a postsecondary training program related to the career pathway. This course is structured to give students extensive practice in applying technical and practical skills in their chosen career.

#### Human Body Systems

Course #: 03112031

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Principles of Biomedical Science

In Human Body System, students will gain extensive knowledge of the various systems of the human body, how they interact, and common medical terminology associated. Usually taken after a comprehensive initial study of biology, this class will present the human body and biological systems in more detail. In order to understand the structure of the human body and its functions, students learn anatomical terminology, study cells and tissues, explore functional systems (skeletal, muscular, circulatory, respiratory, digestive, reproductive, nervous, and so on).

#### Medical Interventions

Course #: 03112034

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Human Body Systems

Students explore medical interventions and how health care professionals and researchers have identified causes and solutions to improve overall public healthcare. Students will explore areas such as infections, genes, cancer, organ failure, immunization, transplants, blood types, medical drugs, legal issues in health care, emerging technology, careers that use medical interventions, and safety.

#### Principles of Biomedical Science

Course #: 03102001

Credit Type: [Career & Technical](#)

Credit: 1.0

How did Anna die? Students will spend their year exploring concepts of biology and medicine to determine what led to the death of this fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged her life. The same equipment and tools medical lab professionals use will allow for activities like dissecting a sheep heart, measuring blood splatter and blood pressure.

**Work Based Learning Experience (coming in 2022-2023)**

Course #: **TBD**

Credit Type: **Career & Technical**

Credit: 1.0

Pre-Req: Biomedical Capstone

Work Based Learning Experience is a culminating pathway opportunity that allows students to use the skills they have learned in the real-world. Students will be enrolled in this course by their counselor after they have successfully applied, interviewed for, and been offered an internship. Students will be supervised by a pathway coordinator throughout the internship.

## Health Science

Available at J. C. Harmon, Washington, and Wyandotte

Health Science courses prepare students for an introduction to a successful and in demand career in the health care industry. Coursework centers around technical skills and laboratory experiences that lead to occupations found in hospitals, clinics, dentistry, pharmacy, patient care, sports medicine, physical therapy, and forensics. In addition to career preparation, health science classes provide lifelong career and life skills for the individual.

### Courses in this Pathway:

Level	CTE Course Name	Pre-requisites or Co-requisites	Credits
<b>Introductory</b>	Introduction to Health Care	Medical Terminology (Co-req)	0.5
<b>Technical</b>	Medical Terminology	Introduction to Health Care (Co-req)	0.5
	Research & Clinical Skills HC 2	Introduction to Health Care & Medical Terminology (Pre-req)	1.0
	*Anatomy & Physiology	None	1.0
	Sports Medicine	Anatomy & Physiology (Pre-req)	1.0
<b>Application</b>	Medical Interventions	At least 2 credits in pathway (Pre-req)	1.0
<b>Career Prep</b>	Health Care Capstone	At least 2 credits in pathway (Pre-req)	1.0
	Work Based Learning Experience (coming in 2022-2023)	Health Care Capstone (Pre-req)	1.0

\*Anatomy & Physiology is a course in the Science Department

### Supplemental programs that Relate to this Pathway:

- Bio+

#### Anatomy & Physiology

Course #: Credit Type: Science  
 Credit: 1.0 Grade Level: 10-12

This course is usually taken after a comprehensive initial study of biology, Anatomy and Physiology presents the human body and biological systems in more detail. In order to understand the structure of the human body and its functions, students learn anatomical terminology, study cells and tissues, explore functional systems (skeletal, muscular, circulatory, respiratory, digestive, reproductive, nervous, and so on), and may dissect mammals.

#### Health Care Capstone

Course #: **TBD** Credit Type: Career & Technical  
 Credit: 1.0  
 Pre-Req: At least 2 credits in the pathway

The goal of the capstone is to focus on career preparation experience by deepening student knowledge and skill development for success in employment and postsecondary education. This course is recommended for students planning to enter the workforce directly after high school or enrolling in a postsecondary training program related to the career pathway. This course is structured to give students extensive practice in applying technical and practical skills in their chosen career.

#### Introduction to Health Care

Course #: Credit Type: Career & Technical  
 Credit: 0.5  
 Co-Req: Medical Terminology

This course provides students with the basic knowledge of health/wellness professionals in private business and industry, community organizations, and health care settings, as well as job opportunities, wage, and duties. This class includes instruction in personal health, community health and welfare, nutrition, epidemiology, disease prevention, fitness and exercise, and health behaviors that are associated with various health careers. This course is required for pathway approval.

#### Medical Interventions

Course #: Credit Type: Career & Technical  
 Credit: 1.0  
 Pre-Req: At least 2 credits in the pathway

Students explore medical interventions and how health care professionals and researchers have identified causes and solutions to improve overall public healthcare. Students will explore areas such as infections, genes, cancer, organ failure, immunization, transplants, blood types, medical drugs, legal issues in health care, emerging technology, careers that use medical interventions, and safety.

#### Medical Terminology

Course #: Credit Type: Career & Technical



Credit: 0.5

Co-Req: Introduction to Health Care

In Medical Terminology, students learn how to identify medical terms by analyzing their components. These courses emphasize defining medical prefixes, root words, suffixes, and abbreviations. The primary focus is on developing both oral and written skills in the language used to communicate within health care professions.

#### Research & Clinical Skills Health Careers 2

Course #:

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Introduction to Health Care & Medical Terminology

An in-depth look at a specific topic, area of research, occupation/career, technique or skill in the health science area, which has been selected by the teacher of record for study. Students may further explore the special topic by collaborating, observing, and participating in approved activities with local and regional health care professionals to offer Professional Learning Experiences (PLE).

#### Sports Medicine

Course #:

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Anatomy & Physiology

This course is designed for students who have a serious interest in pursuing a career in the sports medicine field. Topics include the training room, emergency preparedness, injury game plan, rehabilitation and preseason conditioning, nutrition and the athlete, dietary supplements and performance enhancers, sports psychology, assessment and evaluation of sports injuries, therapeutic physical modalities, and proper taping and wrapping.

#### Work Based Learning Experience (coming in 2022-2023)

Course #: **TBD**

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Health Care Capstone

Work Based Learning Experience is a culminating pathway opportunity that allows students to use the skills they have learned in the real-world. Students will be enrolled in this course by their counselor after they have successfully applied, interviewed for, and been offered an internship. Students will be supervised by a pathway coordinator throughout the internship.

## CTE – Design, Production, & Repair

### Construction & Design

Available at Wyandotte

The Construction and Design pathway coursework prepares students with the knowledge and skills necessary to continue education or pursue a career in architecture, construction, or a related design trades occupation. Students complete projects that focus on the design process, building prototypes, and developing a finished set of plans and material lists. Students who complete the construction strand also have opportunities for industry recognized certifications like OSHA 10.

#### Courses in this Pathway:

Design Strand			
Level	CTE Course Name	Pre-requisites or Co-requisites	Credits
<b>Introductory</b>	Introduction to Design & Pre-Construction	None	0.5
<b>Technical</b>	Drafting/CAD	Suggested: Intro to Design & Pre-Construction (Pre-req)	1.0
	Architectural Design	Drafting/CAD (Pre-req)	1.0
<b>Career Prep</b>	Construction & Design Capstone	At least 2 credits in pathway (Pre-req)	1.0
	Work Based Learning Experience (coming in 2022-2023)	Construction & Design Capstone (Pre-req)	1.0
Construction Strand			
Level	CTE Course Name	Pre-requisites or Co-requisites	Credits
<b>Introductory</b>	Introduction to Design & Pre-Construction	None	0.5
<b>Technical</b>	Carpentry 1	Suggested: Intro to Design & Pre-Construction (Pre-req)	1.0
	Woodworking Principles	None	1.0
	Carpentry 2	Carpentry 1 (Pre-req)	1.0
	Furniture & Cabinetry Fabrication	Woodworking principles (Pre-req)	1.0
<b>Career Prep</b>	Construction & Design Capstone	At least 2 credits in pathway (Pre-req)	1.0
	Work Based Learning Experience (coming in 2022-2023)	Construction & Design Capstone (Pre-req)	1.0

#### Supplemental programs that Relate to this Pathway:

- TBD

#### Architectural Design

Course #: 12104011

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Drafting/CAD

Architectural Design introduces students to the technical craft of drawing illustrations to represent and/or analyze design specifications using examples drawn from architectural applications. This course is intended to help students develop general drafting skills, with an emphasis on interior and exterior residential and light commercial design. Site orientation, floor plans, electrical plans, design sketches, and presentation drawings will be covered. In addition, students may prepare scale models.

#### Carpentry 1

Course #: 13101045

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Suggested: Introduction to Design & Pre-Construction

Carpentry 1 instructs students in the basic knowledge and skills required to construct residential structures. Career opportunities and training requirements for careers are included.

#### Carpentry 2

Course #: 13111055

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Carpentry 1

Carpentry 2 gives students advanced instruction in skills pertaining to rough construction and finish work.

#### Construction & Design Capstone

Course #: TBD

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: At least 2 credits in pathway

The goal of the capstone is to focus on career preparation experience by deepening student knowledge and skill development for success in employment and postsecondary education. This course is recommended for students planning to enter the workforce directly after high school or enrolling in a postsecondary training program related to the career pathway. This course is structured to give students extensive practice in applying technical and practical skills in their chosen career.

#### **Drafting/CAD**

Course #: 13094013

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Suggested: Introduction to Design & Pre-Construction

Students in this class are introduced to the basics of CAD design and software available in the industry.

#### **Furniture & Cabinetry Fabrication**

Course #: 13121045

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Woodworking Principles

Furniture & Cabinetry Fabrication provides students with experiences in constructing cases, cabinets, counters, furniture and interior woodwork.

#### **Introduction to Design & Pre-Construction**

Course #: 13093009

Credit Type: [Career & Technical](#)

Credit: 0.5

This course will introduce students to the knowledge and skills of serving the general public in a variety of occupations. Topics will include identifying personal strengths and weaknesses and setting career goals, leadership, teamwork and problem solving, analyzing leadership roles and identifying leadership opportunities within the school.

#### **Woodworking Principles**

Course #: 13111045

Credit Type: [Career & Technical](#)

Credit: 1.0

Students in Woodworking Principles learn to distinguish between various types of furniture construction and their appropriate applications; the use of patterns, diagrams, and schematics; joinery methods, fasteners, hardware, and finishes; and the proper use of hand and power tools. Lamination and other advanced techniques may be covered.

#### **Work Based Learning Experience (coming in 2022-2023)**

Course #: TBD

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Construction & Design Capstone

Work Based Learning Experience is a culminating pathway opportunity that allows students to use the skills they have learned in the real-world. Students will be enrolled in this course by their counselor after they have successfully applied, interviewed for, and been offered an internship. Students will be supervised by a pathway coordinator throughout the internship.

## Energy

Available at Washington

The Energy pathway introduces students to the areas of wind power, solar power, geothermal power, hydropower, gas transmission, and nuclear generation. Students explore concepts of power, energy, transmission, and their interaction with our environment. Completing the full pathway can provide nationally recognized industry credentials for the U.S. energy workforce.

### Courses in this Pathway:

Level	CTE Course Name	Pre-requisites or Co-requisites	Credits
<b>Introductory</b>	Introduction to Energy	None	0.5
	*Environmental Science	None	1.0
<b>Technical</b>	Energy, Power, and Society	Introduction to Energy (Pre-req)	1.0
	Energy Industry Fundamentals	Energy, Power, and Society (Pre-req)	1.0
<b>Career Prep</b>	Energy Capstone	At least 2 credits in pathway (Pre-req)	1.0
	Work Based Learning Experience (coming in 2022-2023)	Energy Capstone (Pre-req)	1.0

\*Environmental Science is a course in the Science Department

### Supplemental programs that Relate to this Pathway:

- TBD

#### Energy Capstone

Course #: TBD

Credit Type: Career & Technical

Credit: 1.0

Pe-Req: At least 2 credits in pathway

The goal of the capstone is to focus on career preparation experience by deepening student knowledge and skill development for success in employment and postsecondary education. This course is recommended for students planning to enter the workforce directly after high school or enrolling in a postsecondary training program related to the career pathway. This course is structured to give students extensive practice in applying technical and practical skills in their chosen career.

#### Energy Industry Fundamentals

Course #: TBD

Credit Type: Career & Technical

Credit: 1.0

Pre-Req: Energy, Power, and Society

This course provides a broad understanding of the electric and natural gas utility industry and the energy generation, transmission, and distribution infrastructure. The course includes business models, regulations, types of energy and their conversion to useable energy such as electric power, emerging technologies, how generated power is transmitted and distributed to the point of use, and the connection to careers in the energy industry. The students have an opportunity to earn a nationally recognized industry credential by course end.

#### Energy, Power, and Society

Course #: TBD

Credit Type: Career & Technical

Credit: 1.0

Pre-Req: Introduction to Energy

This course is designed to introduce students to the terminology and other aspects of the wind industry and further their knowledge of renewable and non-renewable energy and fuels, natural resource management, water quality and land use. Course topics will include the history of the wind industry, types and applications of various wind turbines, environmental and economic issues of the wind industry, and the future of the industry. There will be a focus on project based learning, with students applying their skills and knowledge in real-world settings.

#### Environmental Science

Course #: 03093004

Credit Type: Science

Credit: 1.0

Grade Level: 10-12

This course examines the mutual relationships between organisms and their environment. In studying the interrelationships among plants, animals, and humans, these courses usually cover the following subjects: photosynthesis, recycling and regeneration, ecosystems, population and growth studies, pollution, and conservation of natural resources.

#### Introduction to Energy

Course #: TBD

Credit Type: Career & Technical

Credit: 0.5

This course is designed to provide students with a basic understanding of environmental issues and sustainable practices. Two aspects of green technology will be stressed: energy and sustainability. Hands-on projects will generate interest in and passion for environmental issues. Protecting the environment and alternative energy generation are an important part of the students' experience. Careers in green technology and the requirements to obtain various positions will also be discussed.

**Work Based Learning Experience** (coming in 2022-2023)

Course #: **TBD**

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Energy Capstone

Work Based Learning Experience is a culminating pathway opportunity that allows students to use the skills they have learned in the real-world. Students will be enrolled in this course by their counselor after they have successfully applied, interviewed for, and been offered an internship. Students will be supervised by a pathway coordinator throughout the internship.

## Engineering

Available at F. L. Schlagle, J. C. Harmon, Sumner Academy, and Wyandotte

PLTW Engineering empowers students to step into the role of an engineer, adopt a problem-solving mindset, and make the leap from dreamers to doers. The program's courses engage students in compelling, real-world challenges that help them become better collaborators and thinkers. Students take from the courses in-demand knowledge and skills they will use in high school and for the rest of their lives, on any career path they take.

### Courses in this Pathway:

Level	CTE Course Name	Pre-requisites or Co-requisites	Credits
<b>Introductory</b>	Engineering Essentials	None	1.0
<b>Technical</b>	Engineering Design (IED)	None	1.0
	Robotics	Engineering Essentials or Engineering Design (IED) (Pre-req)	1.0
<b>Application</b>	Civil Engineering & Architecture	Engineering Design (IED) (Pre-req)	1.0
	*Computer Integrated Manufacturing	Engineering Design (IED) (Pre-req)	1.0
	Digital Electronics	Engineering Design (IED) (Pre-req)	1.0
	Principles of Applied Engineering	Engineering Design (IED) (Pre-req)	1.0
	Engineering Design & Development	Engineering Design (IED) (Pre-req)	1.0
<b>Career Prep</b>	Engineering Capstone	At least 2 credits in pathway (Pre-req)	1.0
	Work Based Learning Experience (coming in 2022-2023)	Engineering Capstone (Pre-req)	1.0

\*Sumner Academy ONLY

### Supplemental programs that Relate to this Pathway:

- TBD

#### Civil Engineering & Architecture

Course #: 13126021

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Engineering Design (IED)

Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3-D architectural design software.

#### Computer Integrated Manufacturing

Course #: 13119020

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Engineering Design (IED)

Computer Integrated Manufacturing courses involve the study of robotics and automation. Building on computer solid modeling skills, students may use computer numerical control (CNC) equipment to produce actual models of their three-dimensional designs. Course topics may also include fundamental concepts of robotics, automated manufacturing, and design analysis.

#### Digital Electronics

Course #: 13116031

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Engineering Design (IED)

Digital Electronics students use applied logic in the development of electronic circuits and devices. Students will use computer simulation software to design and test digital circuitry prior to the actual construction of circuits and devices. Examples of projects include designing and building circuits similar to alarm systems, car safety features and traffic lights.

#### Engineering Capstone

Course #: TBD

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: At least 2 credits in the pathway

The goal of the capstone is to focus on career preparation experience by deepening student knowledge and skill development for success in employment and postsecondary education. This course is recommended for students planning to enter the workforce directly after high school or enrolling in a postsecondary training program related to the career pathway. This course is structured to give students extensive practice in applying technical and practical skills in their chosen career.

#### Engineering Design (IED)

Course #: 13096025

Credit Type: [Career & Technical](#)

Credit: 1.0

Students will focus on the design process to learn to solve problems. They will learn to communicate their ideas in an organized manner written, drawn and verbally. They will learn technical drawing skills and use computer design software. They will learn to collect data and analyze the effectiveness of a solution.

#### **Engineering Design & Development**

Course #: 13126025

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Engineering Design (IED)

Engineering Design and Development students will develop a project for a new product aimed at solving a specific problem. They will work from the beginning of the process where they research to prove that the problem is real, through patent research on similar ideas, and brainstorming multiple Products/solutions to the problem. They will prove the solution they choose is the best then develop and test their new product. They will present their research and product at the Greater KC Engineering Fair at the end of the year.

#### **Engineering Essentials**

Course #: 13091002

Credit Type: [Career & Technical](#)

Credit: 1.0

An Introductory level course designed to introduce students to concepts in Engineering with a focus on Science, Technology, Engineering, & Math; including units on safety and tools, computer use, design, automation, robotics, space, flight, and electricity.

#### **Robotics**

Course #: 13105012

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Engineering Essentials or Engineering Design (IED)

Students develop skills and knowledge to design and develop robotic devices. Topics may include mechanics, electrical and motor controls, pneumatics, computer basics, and programmable logic controllers.

#### **Principles of Applied Engineering**

Course #: 13106014

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Engineering Design (IED)

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

#### **Work Based Learning Experience (coming in 2022-2023)**

Course #: **TBD**

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Engineering Capstone

Work Based Learning Experience is a culminating pathway opportunity that allows students to use the skills they have learned in the real-world. Students will be enrolled in this course by their counselor after they have successfully applied, interviewed for, and been offered an internship. Students will be supervised by a pathway coordinator throughout the internship.

## CTE – Business

### Business Finance

Available at Washington

Business Finance coursework prepares students for careers and educational opportunities in financial and investment planning, banking, insurance, and business financial management. Coursework focuses on high demand workplace skills such as organization, time management, customer service, and business communication. Students exit the pathway with a firm grasp on the ever-changing global financial scene.

#### Courses in this Pathway:

Level	CTE Course Name	Pre-requisites or Co-requisites	Credits
<b>Introductory</b>	Business Essentials	None	0.5
<b>Technical</b>	Accounting 1	Business Essentials (Pre-req)	1.0
<b>Application</b>	Banking & Finance	Accounting 1 (Pre-req)	0.5
	Investing	Banking & Finance (Pre-req)	0.5
<b>Career Prep</b>	Business Finance Capstone	At least 2 credits in pathway (Pre-req)	1.0
	Work Based Learning Experience (coming in 2022-2023)	Business Finance Capstone (Pre-req)	1.0

#### Supplemental programs that Relate to this Pathway:

- TBD

#### Accounting 1

Course #: 11101011

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Business Essentials

Students will study and practice accounting principles and procedures used in businesses. Topics include the full accounting cycle, payroll, taxes, debts, depreciation, ledger and journal techniques, and periodic adjustments. Students will prepare budgets, final reports, and use auditing principles.

#### Banking & Finance

Course #: 11127011

Credit Type: [Career & Technical](#)

Credit: 0.5

Pre-Req: Accounting 1

Banking and Finance provides students with an overview of the American monetary and banking system. Students will learn about financial institutions and the services and products they offer. Students also learn about government regulations; checking, saving, and money market accounts; various types of investments; and negotiable instruments.

#### Business Essentials

Course #: 11093021

Credit Type: [Career & Technical](#)

Credit: 0.5

Business Essentials provides a foundation for students as they are beginning to learn about the world of business. Students will examine current events to determine their impact on business and industry and legal and ethical behavior. Students will investigate how to make a business productive and how to manage company resources to achieve goals. Finally, students will be able to identify employability and personal skills needed to obtain a career and be successful in the workplace.

#### Business Finance Capstone

Course #: TBD

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: At least 2 credits in pathway

The goal of the capstone is to focus on career preparation experience by deepening student knowledge and skill development for success in employment and postsecondary education. This course is recommended for students planning to enter the workforce directly after high school or enrolling in a postsecondary training program related to the career pathway. This course is structured to give students extensive practice in applying technical and practical skills in their chosen career.

#### Investing

Course #: 11117031

Credit Type: [Career & Technical](#)

Credit: 0.5

Pre-Req: Banking & Finance



Investing students learn about business and individual investment decisions by comparing and contrasting the investment qualities of cash, stock, bonds, and mutual funds. Student may also review annual reports, predicting growth rates, analyzing trends, and participating in stock market simulations.

**Work Based Learning Experience** (coming in 2022-2023)

Course #: **TBD**

Credit Type: **Career & Technical**

Credit: 1.0

Pre-Req: Business Finance Capstone

Work Based Learning Experience is a culminating pathway opportunity that allows students to use the skills they have learned in the real-world. Students will be enrolled in this course by their counselor after they have successfully applied, interviewed for, and been offered an internship. Students will be supervised by a pathway coordinator throughout the internship.

## Business Management & Entrepreneurship

Available at J. C. Harmon, Sumner Academy, and Wyandotte

The Business Management and Entrepreneurship pathway prepares students for careers and continuing education opportunities planning, organizing, directing, and evaluation business functions essential to efficient and productive business operations. Students complete courses that prepare them with a firm foundation in the operations of a small- or large-scale business venture. The course of study is based on national business, management, and entrepreneurship industry standards.

### Courses in this Pathway:

Level	CTE Course Name	Pre-requisites or Co-requisites	Credits
<b>Introductory</b>	Business Essentials	None	0.5
<b>Technical</b>	Business Law	None	0.5
	Principles of Marketing	None	1.0
	Entrepreneurship	Business Management (Co-req)	0.5
	Business Management	Entrepreneurship (Co-req)	0.5
	Accounting 1	Business Essentials (Pre-req)	1.0
<b>Application</b>	Applied Business Development	At least 2 credits in the pathway (Pre-req)	1.0
<b>Career Prep</b>	Business Management Capstone	At least 2 credits in the pathway (Pre-req)	1.0
	Work Based Learning Experience (coming in 2022-2023)	Business Management Capstone (Pre-req)	1.0

### Supplemental programs that Relate to this Pathway:

- TBD

#### Accounting 1

Course #: 11101011

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Business Essentials

Students will study and practice accounting principles and procedures used in businesses. Topics include the full accounting cycle, payroll, taxes, debts, depreciation, ledger and journal techniques, and periodic adjustments. Students will prepare budgets, final reports, and use auditing principles.

#### Applied Business Development

Course #: 11125211

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: At least 2 credits in the pathway

Applied Business Development students plan, organize, direct, and control the functions of a business while assuming the responsibilities and risks involved. Students will develop skills in enterprise development, market analysis and financial preparation. Includes classroom activities, further study of the field, and discussion regarding real-world experiences and applications that students encounter in owning and managing a business.

#### Business Essentials

Course #: 11093021

Credit Type: [Career & Technical](#)

Credit: 0.5

Business Essentials provides a foundation for students as they are beginning to learn about the world of business. Students will examine current events to determine their impact on business and industry and legal and ethical behavior. Students will investigate how to make a business productive and how to manage company resources to achieve goals. Finally, students will be able to identify employability and personal skills needed to obtain a career and be successful in the workplace.

#### Business Law

Course #: 11108015

Credit Type: [Career & Technical](#)

Credit: 1.0

Business Law emphasizes legal concepts that are relevant to business and business organizations. Topics examined in this course include contracts, buying/renting property, installment buying, insurance, buyer/seller relationships, negotiable instruments, employment, taxes, insurance, commercial papers, legal organizational structures, and consumer liabilities.

#### Business Management

Course #: 11117021

Credit Type: [Career & Technical](#)

Credit: 0.5

Co-Req: Entrepreneurship

Business Management provides students with management experiences. Student gain the skills to perform the planning, staffing, financing, and controlling functions within a business. They also learn about business structure, finance, and the interconnections among industry, government, and the global economy. Problem-based, real-world applications of business concepts are emphasized. Accounting concepts are used to formulate, analyze, and evaluate business decisions.

#### **Business Management Capstone**

Course #: **TBD**

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: At least 2 credits in the pathway

The goal of the capstone is to focus on career preparation experience by deepening student knowledge and skill development for success in employment and postsecondary education. This course is recommended for students planning to enter the workforce directly after high school or enrolling in a postsecondary training program related to the career pathway. This course is structured to give students extensive practice in applying technical and practical skills in their chosen career.

#### **Entrepreneurship**

Course #: 11105011

Credit Type: [Career & Technical](#)

Credit: 0.5

Co-Req: Business Management

Entrepreneurship students develop knowledge and skills necessary to own and operate a business. Topics include: economics, marketing principles, human relations and psychology, business and labor law, legal rights and responsibilities of ownership, business and financial planning, finance and accounting, and communication.

#### **Principles of Marketing**

Course #: 11109011

Credit Type: [Career & Technical](#)

Credit: 1.0

Principles of Marketing offers students insight into the processes affecting the flow of goods and services from the producer to the consumer. Students will learn about different kinds of markets; how to identify a market; product planning, packaging, and pricing; and business management.

#### **Work Based Learning Experience (coming in 2022-2023)**

Course #: **TBD**

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Business Management Capstone

Work Based Learning Experience is a culminating pathway opportunity that allows students to use the skills they have learned in the real-world. Students will be enrolled in this course by their counselor after they have successfully applied, interviewed for, and been offered an internship. Students will be supervised by a pathway coordinator throughout the internship.

## Marketing

Available at F. L. Schlagle, J. C. Harmon, Washington, and Wyandotte

The Marketing pathway prepares learners for a career in planning, managing, and marketing activities within an organizational setting. Students learn technical skills such as brand management, professional sales, merchandising, marketing communications, and market research. This pathway transfers across multiple career fields as well as teaching invaluable life skills for prospective small business ventures.

### Courses in this Pathway:

Digital Marketing Strand			
Level	CTE Course Name	Pre-requisites or Co-requisites	Credits
<b>Introductory</b>	Business Essentials	None	0.5
<b>Technical</b>	*Principles of Marketing	None	1.0
	Entrepreneurship	Business Management (Co-req)	0.5
	Business Management	Entrepreneurship (Co-req)	0.5
	Accounting 1	Business Essentials (Pre-req)	1.0
<b>Application</b>	Marketing Applications	At least 2 credits in pathway (Pre-req)	1.0
<b>Career Prep</b>	Marketing Capstone	At least 2 credits in pathway (Pre-req)	1.0
	Work Based Learning Experience (coming in 2022-2023)	Marketing Capstone (Pre-req)	1.0
Entrepreneurship Strand			
Level	CTE Course Name	Pre-requisites or Co-requisites	Credits
<b>Introductory</b>	Business Essentials	None	0.5
<b>Technical</b>	*Principles of Marketing	None	1.0
	Computer Graphics 1	None	1.0
	Web Page Design	None	1.0
	Graphic Design 2	Computer Graphics 1 (Pre-req)	1.0
<b>Application</b>	Marketing Applications	At least 2 credits in pathway (Pre-req)	1.0
<b>Career Prep</b>	Marketing Capstone	At least 2 credits in pathway (Pre-req)	1.0
	Work Based Learning Experience (coming in 2022-2023)	Marketing Capstone (Pre-req)	1.0

\*Principles of Marketing MUST be taken by all students in the pathway

### Supplemental programs that Relate to this Pathway:

- TBD

#### Accounting 1

Course #: 11101011

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Business Essentials

Students will study and practice accounting principles and procedures used in businesses. Topics include the full accounting cycle, payroll, taxes, debts, depreciation, ledger and journal techniques, and periodic adjustments. Students will prepare budgets, final reports, and use auditing principles.

#### Business Essentials

Course #: 11093021

Credit Type: [Career & Technical](#)

Credit: 0.5

Business Essentials provides a foundation for students as they are beginning to learn about the world of business. Students will examine current events to determine their impact on business and industry and legal and ethical behavior. Students will investigate how to make a business productive and how to manage company resources to achieve goals. Finally, students will be able to identify employability and personal skills needed to obtain a career and be successful in the workplace.

#### Business Management

Course #: 11117021

Credit Type: [Career & Technical](#)

Credit: 0.5

Co-Req: Entrepreneurship

Business Management provides students with management experiences. Student gain the skills to perform the planning, staffing, financing, and controlling functions within a business. They also learn about business structure, finance, and the interconnections among industry, government, and the global economy. Problem-based, real-world applications of business concepts are emphasized. Accounting concepts are used to formulate, analyze, and evaluate business decisions.

#### Computer Graphics 1

Course #: 10107021

Credit Type: [Career & Technical](#)

Credit: 1.0

Computer Graphics 1 students explore the capability of the computer to produce visual imagery. They learn to apply graphic techniques to various fields, such as advertising, TV/video, and architecture. Typical course topics include modeling, simulation, animation, and image retouching.

#### **Entrepreneurship**

Course #: 11105011

Credit Type: [Career & Technical](#)

Credit: 0.5

Co-Req: Business Management

Entrepreneurship students develop knowledge and skills necessary to own and operate a business. Topics include: economics, marketing principles, human relations and psychology, business and labor law, legal rights and responsibilities of ownership, business and financial planning, finance and accounting, and communication.

#### **Graphic Design 2**

Course #: 10107025

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Graphic Design 1

Graphic Design 2 builds on skills learned in Computer Graphics 1 or Graphic Design 1. The course emphasizes using design elements and principles in the purposeful arrangement of images and text to communicate a message through art products like advertisements and product designs. Students may investigate the computers influence on and role in creating contemporary designs and study cultural and historical master design works of different periods and styles.

#### **Marketing Applications**

Course #: 11125023

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: At least 2 credits in the pathway

Marketing Applications allows students to learn more advanced marketing concepts through projects. Topics include the nature of marketing plans, coordinating channel management with other marketing activities, generating product ideas, and coordinating activities in the promotional mix. Demonstration of specialized sales processes and techniques, economic, and financial concepts are also covered.

#### **Marketing Capstone**

Course #: **TBD**

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: At least 2 credits in the pathway

The goal of the capstone is to focus on career preparation experience by deepening student knowledge and skill development for success in employment and postsecondary education. This course is recommended for students planning to enter the workforce directly after high school or enrolling in a postsecondary training program related to the career pathway. This course is structured to give students extensive practice in applying technical and practical skills in their chosen career.

#### **Principles of Marketing**

Course #: 11109011

Credit Type: [Career & Technical](#)

Credit: 1.0

Principles of Marketing offers students insight into the processes affecting the flow of goods and services from the producer to the consumer. Students will learn about different kinds of markets; how to identify a market; product planning, packaging, and pricing; and business management.

#### **Web Page Design**

Course #: 11105015

Credit Type: [Career & Technical](#)

Credit: 1.0

Web Page Design introduces knowledge and skills for site planning, page layout, graphic design, and the use of markup languages such as Extensible Hypertext Markup, JavaScript, Dynamic HTML, and Document Object Model. Students will be able to develop and maintain a web page, understanding topics such as security and privacy issues, copyright infringement, trademarks, and other legal issues.

#### **Work Based Learning Experience (coming in 2022-2023)**

Course #: **TBD**

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Marketing Capstone

Work Based Learning Experience is a culminating pathway opportunity that allows students to use the skills they have learned in the real-world. Students will be enrolled in this course by their counselor after they have successfully applied, interviewed for, and been offered an internship. Students will be supervised by a pathway coordinator throughout the internship.

## CTE – Family & Consumer Services

### Family, Community, & Consumer Services

Available at J. C. Harmon

The Family, Community, and Consumer Services pathway focuses on careers relating to meeting the essential needs of people. Coursework focuses on social/emotional wellness, financial literacy, and physical health. Occupations which focus on the relationships between and among family members are a focus as well as those related to personal and family financial goal management. This pathway is unique in that the entire human condition is included.

#### Courses in this Pathway:

Level	CTE Course Name	Pre-requisites or Co-requisites	Credits
<b>Introductory</b>	Career & Life Planning	None	0.5
<b>Technical</b>	Family Studies	None	0.5
	Human Growth & Development	None	1.0
<b>Career Prep</b>	FCCS Capstone	At least 2 credits in the pathway (Pre-req)	1.0
	Work Based learning Experience (coming in 2022-2023)	FCCS Capstone (Pre-req)	1.0

#### Supplemental programs that Relate to this Pathway:

- TBD

#### Career & Life Planning

Course #: 12094011  
Credit: 0.5

Credit Type: [Career & Technical](#)

Self-Management courses introduce students to the skills and strategies helpful in becoming more focused, productive individuals. These courses typically emphasize goal-setting; decision-making; managing time, energy, and stress; and identifying alternatives and coping strategies. They may also allow students to explore various career and lifestyle choices.

#### FCCS Capstone

Course #: **TBD**  
Credit: 1.0

Credit Type: [Career & Technical](#)

Pre-Req: At least 2 credits in the pathway

The goal of the capstone is to focus on career preparation experience by deepening student knowledge and skill development for success in employment and postsecondary education. This course is recommended for students planning to enter the workforce directly after high school or enrolling in a postsecondary training program related to the career pathway. This course is structured to give students extensive practice in applying technical and practical skills in their chosen career.

#### Family Studies

Course #: 12104021  
Credit: 0.5

Credit Type: [Career & Technical](#)

Family Studies emphasizes building and maintaining healthy interpersonal relationships among family members and other members of society. Topics may include: various stages of life, family units and organization, human sexuality and reproduction, social/dating practices, and parenthood. Individual self-development, career development, personal awareness, and preparation for the responsibilities of a family member and wage earner may be included.

#### Human Growth & Development

Course #: 12108029  
Credit: 1.0

Credit Type: [Career & Technical](#)

Human Growth and Development students study the growth and development of people from conception to old age. Students will explore physical, mental, emotional, and social growth across the life stages. A special emphasis is given to the stages from birth to school-age development, including prenatal and birth processes.

#### Work Based Learning Experience (coming in 2022-2023)

Course #: **TBD**  
Credit: 1.0

Credit Type: [Career & Technical](#)

Pre-Req: FCCS Capstone

Work Based Learning Experience is a culminating pathway opportunity that allows students to use the skills they have learned in the real-world. Students will be enrolled in this course by their counselor after they have successfully applied, interviewed for, and been offered an internship. Students will be supervised by a pathway coordinator throughout the internship.

## Restaurant & Event Management

Available at Wyandotte

Students who are interested in a career in culinary arts, lodging, or travel/tourism can pick up valuable skills through the Restaurant and Event Management pathway. Early coursework introduces students to a firm foundation in business, marketing, and food science. Later coursework allows students to specialize in the areas of Event Planning or Culinary Arts. Successful completion of the pathway can lead to nationally recognized industry credentials.

### Courses in this Pathway:

Event Planning & Management Strand			
Level	CTE Course Name	Pre-requisites or Co-requisites	Credits
<b>Introductory</b>	Business Essentials	None	0.5
	Career & Life Planning	None	0.5
<b>Technical</b>	Culinary Essentials	None	0.5
	Principles of Marketing	None	1.0
	Entrepreneurship	None	0.5
	Event Planning & Management	At least 1 credit in the pathway (Pre-req)	0.5
<b>Application</b>	Applied Business Development	At least 2 credits in the pathway (Pre-req)	1.0
<b>Career Prep</b>	Restaurant & Event Management Capstone	At least 2 credits in the pathway (Pre-req)	1.0
	Work Based Learning Experience (coming in 2022-2023)	Restaurant & Event Management Capstone (Pre-req)	1.0
Culinary Arts & Management Strand			
Level	CTE Course Name	Pre-requisites or Co-requisites	Credits
<b>Introductory</b>	Business Essentials	None	0.5
	Career & Life Planning	None	0.5
<b>Technical</b>	Culinary Essentials	None	0.5
	Culinary Arts 1	None	1.0
	Culinary Arts 2	Culinary Arts 1 (Pre-req)	0.5
	Baking & Pastry 1	Culinary Arts 1 (Pre-req)	0.5
	Baking & Pastry 2	Baking & Pastry 1 (Pre-req)	0.5
	Event Planning & Management	At least 1 credit in the pathway (Pre-req)	0.5
<b>Application</b>	Culinary Applications	At least 2 credits in the pathway (Pre-req)	1.0
<b>Career Prep</b>	Restaurant & Event Management Capstone	At least 2 credits in the pathway (Pre-req)	1.0
	Work Based Learning Experience (coming in 2022-2023)	Restaurant & Event Management Capstone	1.0

### Supplemental programs that Relate to this Pathway:

- TBD

#### Applied Business Development

Course #: 11125211

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: At least 2 credits in the pathway

Applied Business Development students plan, organize, direct, and control the functions of a business while assuming the responsibilities and risks involved. Students will develop skills in enterprise development, market analysis and financial preparation. Includes classroom activities, further study of the field, and discussion regarding real-world experiences and applications that students encounter in owning and managing a business.

#### Baking & Pastry 1

Course #: 12112033

Credit Type: [Career & Technical](#)

Credit: 0.5

Pre-Req: Culinary Arts 1

Over the course of multiple recipes, students will use the correct equipment & methods to make desserts and baked goods. A variety of recipes and methods will be explored and a basic understanding of how ingredients act will be studied.

#### Baking & Pastry 2

Course #: 12112035

Credit Type: [Career & Technical](#)

Credit: 0.5

Pre-Req: Baking & Pastry 1

Students will build additional skills in the baking and pastry arts by practicing more refined and complicated recipes. A deeper study of ingredients and the scientific reactions during production will be explored. Production methods appropriate for a commercial or restaurant kitchen will be studied.

#### **Business Essentials**

Course #: 11093021  
Credit: 0.5

Credit Type: [Career & Technical](#)

Business Essentials provides a foundation for students as they are beginning to learn about the world of business. Students will examine current events to determine their impact on business and industry and legal and ethical behavior. Students will investigate how to make a business productive and how to manage company resources to achieve goals. Finally, students will be able to identify employability and personal skills needed to obtain a career and be successful in the workplace.

#### **Career & Life Planning**

Course #: 12094011  
Credit: 0.5

Credit Type: [Career & Technical](#)

Self-Management courses introduce students to the skills and strategies helpful in becoming more focused, productive individuals. These courses typically emphasize goal-setting; decision-making; managing time, energy, and stress; and identifying alternatives and coping strategies. They may also allow students to explore various career and lifestyle choices.

#### **Culinary Applications**

Course #: 12122031  
Credit: 1.0

Credit Type: [Career & Technical](#)

Pre-Req: At least 2 credits in pathway

Students enrolled in Culinary Applications are expected to have mastered skills in the culinary field and be able to apply them in authentic experiences following industry standards and regulations. Students will work within a school, community, or workplace and experience all aspects of the industry in this course.

#### **Culinary Arts 1**

Course #: 12102037  
Credit: 1.0

Credit Type: [Career & Technical](#)

Students will practice using the correct equipment and accurate methods to produce a variety of foods. Study of meal management, prevention of food borne illnesses, and business skills required for careers in the restaurant industry are additional topics.

#### **Culinary Arts 2**

Course #: 12102033  
Credit: 0.5

Credit Type: [Career & Technical](#)

Pre-Req: Culinary Arts 1

Students will build additional culinary skills using a variety of equipment, methods, and recipes. Customer service, event management, and special dietary needs will also be studied.

#### **Culinary Essentials**

Course #: 12102035  
Credit: 0.5

Credit Type: [Career & Technical](#)

Culinary Essentials gives students a through overview of the food-service portion of the Hospitality and Tourism career cluster. Topics include food safety and sanitation; the selection, use, and maintenance of equipment; standard recipe use; and skills in food production, management, and service. Career readiness and training opportunities will be explored.

#### **Entrepreneurship**

Course #: 11105011  
Credit: 0.5

Credit Type: [Career & Technical](#)

Entrepreneurship students develop knowledge and skills necessary to own and operate a business. Topics include: economics, marketing principles, human relations and psychology, business and labor law, legal rights and responsibilities of ownership, business and financial planning, finance and accounting, and communication.

#### **Event Planning & Management**

Course #: 11102011  
Credit: 0.5

Credit Type: [Career & Technical](#)

Pre-Req: At least 1 credit in the pathway



This course provides students with the knowledge and skills related to the event planning and implementation process. It will include establishing client relationships, the importance of communication, planning process, resource management, quality service and staffing issues.

#### **Principles of Marketing**

Course #: 11109011

Credit Type: [Career & Technical](#)

Credit: 1.0

Principles of Marketing offers students insight into the processes affecting the flow of goods and services from the producer to the consumer. Students will learn about different kinds of markets; how to identify a market; product planning, packaging, and pricing; and business management.

#### **Restaurant & Event Management Capstone**

Course #: **TBD**

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: At least 2 credits in the pathway

The goal of the capstone is to focus on career preparation experience by deepening student knowledge and skill development for success in employment and postsecondary education. This course is recommended for students planning to enter the workforce directly after high school or enrolling in a postsecondary training program related to the career pathway. This course is structured to give students extensive practice in applying technical and practical skills in their chosen career.

#### **Work Based Learning Experience (coming in 2022-2023)**

Course #: **TBD**

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Restaurant & Event Management Capstone

Work Based Learning Experience is a culminating pathway opportunity that allows students to use the skills they have learned in the real-world. Students will be enrolled in this course by their counselor after they have successfully applied, interviewed for, and been offered an internship. Students will be supervised by a pathway coordinator throughout the internship.

## Teaching & Training

Available at F. L. Schlagle, J. C. Harmon, Sumner Academy, and Washington

The Teaching and Training pathway focuses on the development of teachers and trainers in today's ever-changing society. Coursework covers the basics of teaching elementary and middle level students as well as specific disciplines like community education and workforce development. Content includes general theory and practices as well as planning educational activities across multiple subject areas.

### Courses in this Pathway:

Level	CTE Course Name	Pre-requisites or Co-requisites	Credits
<b>Introductory</b>	Career & Life Planning	None	0.5
<b>Technical</b>	Human Growth & Development	None	1.0
	Teaching as a Career	Human Growth & Development (Pre-req)	1.0
<b>Application</b>	Teaching Internship	At least 2 credits in the pathway (Pre-req)	1.0

### Supplemental programs that Relate to this Pathway:

- K-STEP UP Program

#### Career & Life Planning

Course #: 12094011

Credit Type: [Career & Technical](#)

Credit: 0.5

Self-Management courses introduce students to the skills and strategies helpful in becoming more focused, productive individuals. These courses typically emphasize goal-setting; decision-making; managing time, energy, and stress; and identifying alternatives and coping strategies. They may also allow students to explore various career and lifestyle choices.

#### Human Growth & Development

Course #: 12108029

Credit Type: [Career & Technical](#)

Credit: 1.0

Human Growth and Development students study the growth and development of people from conception to old age. Students will explore physical, mental, emotional, and social growth across the life stages. A special emphasis is given to the stages from birth to school-age development, including prenatal and birth processes.

#### Teaching as a Career

Course #: 13118031

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Human Growth & Development

Students will explore the concepts of teaching and learning in a modern classroom. Topics covered include the responsibilities and duties of teachers as well as techniques for teaching such as classroom management, assessment, and teaching strategies. Textbook readings, observations, and reflections play an important role in this course. Career opportunities and types of post-secondary education needed for careers will be explored.

#### Teaching Internship

Course #: 13128031

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: At least 2 credits in pathway

Under the guidance of the course teacher and additional staff students will develop objectives, design lesson plans, and experience teaching short lessons within a classroom. Previous study of teaching skills will be applied. Students are expected to be familiar with teaching strategies for various learning styles, planning & management; questioning & evaluation techniques; and basic classroom management. Teaching experience may include individual, small group, or whole class experiences.

## CTE – Public Services

### Corrections, Security, Law, and Law Enforcement

Available at F. L. Schlagle and Wyandotte

Students interested in pursuing a career in law, public safety, security, emergency services, police science, or fire science occupations gain vital knowledge and skills through the Corrections, Security, Law, and Law Enforcement pathway coursework. Classes focus on building skills through classroom, laboratory experiences, and field instruction. Students gain access to professional certifications required for some of these exciting service careers.

#### Courses in this Pathway:

Pre-Law Strand			
Level	CTE Course Name	Pre-requisites or Co-requisites	Credits
<b>Introductory</b>	Introduction to Law& Public Safety	None	0.5
<b>Technical</b>	Business Law	None	0.5
	Practical Law	None	0.5
	Business Management	None	0.5
<b>Application</b>	Foundations in Law	At least 2 credits in pathway (Pre-req)	1.0
	Youth Court	At least 2 credits in pathway (Pre-req)	1.0
<b>Career Prep</b>	CSLL Capstone	At least 2 credits in pathway (Pre-req)	1.0
	Work Based Learning Experience (coming in 2022-2023)	CSLL Capstone (Pre-req)	1.0
Law Enforcement Strand			
Level	CTE Course Name	Pre-requisites or Co-requisites	Credits
<b>Introductory</b>	Introduction to Law & Public Safety	None	0.5
<b>Technical</b>	Law Enforcement 1	None	1.0
	Forensic Science Comprehensive	None	1.0
<b>Application</b>	Law Enforcement 2	Law Enforcement 1 (Pre-req)	1.0
<b>Career Prep</b>	CSLL Capstone	At least 2 credits in pathway (Pre-req)	1.0
	Work Based Learning Experience (coming in 2022-2023)	CSLL Capstone (Pre-req)	1.0

#### Supplemental programs that Relate to this Pathway:

- TBD

#### Business Law

Course #: 11108015  
Credit: 1.0

Credit Type: [Career & Technical](#)

Business Law emphasizes legal concepts that are relevant to business and business organizations. Topics examined in this course include contracts, buying/renting property, installment buying, insurance, buyer/seller relationships, negotiable instruments, employment, taxes, insurance, commercial papers, legal organizational structures, and consumer liabilities.

#### Business Management

Course #: 11117021  
Credit: 0.5

Credit Type: [Career & Technical](#)

Business Management provides students with management experiences. Student gain the skills to perform the planning, staffing, financing, and controlling functions within a business. They also learn about business structure, finance, and the interconnections among industry, government, and the global economy. Problem-based, real-world applications of business concepts are emphasized. Accounting concepts are used to formulate, analyze, and evaluate business decisions.

#### CSLL Capstone

Course #: TBD  
Credit: 1.0

Credit Type: [Career & Technical](#)

Pre-Req: At least 2 credits in the pathway

The goal of the capstone is to focus on career preparation experience by deepening student knowledge and skill development for success in employment and postsecondary education. This course is recommended for students planning to enter the workforce directly after high school or enrolling in a postsecondary training program related to the career pathway. This course is structured to give students extensive practice in applying technical and practical skills in their chosen career.

#### Forensics Science Comprehensive

Course #: TBD  
Credit: 1.0

Credit Type: [Career & Technical](#)

Building on biology and chemistry knowledge, Forensic Science provides students with knowledge and skills needed to pursue post-secondary training in legal public services and security careers requiring Forensic Science such as Forensic Anthropology, Forensic Medicine, or Medical Examiner. Career readiness and post-secondary training planning are part of class.

#### **Foundations in Law**

Course #: 04114015

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: At least 2 credits in the pathway

Foundations in Law students study how laws are created, enforced, interpreted, and changed. The course enables students to examine diverse areas of law, including criminal, civil, constitutional, and international. Civil rights issues and the role of advocacy, civics, and the media in our legal system are explored.

#### **Introduction to Law & Public Safety**

Course #: 04095011

Credit Type: [Career & Technical](#)

Credit: 0.5

Introduction to Law and Public Safety topics include the legal system, professional conduct, safety, and types of crime as well as occupations available in the Law, Public Safety, and Security fields.

#### **Law Enforcement 1**

Course #: 04114039

Credit Type: [Career & Technical](#)

Credit: 1.0

The first of two courses designed to provide students with the skills and knowledge necessary to obtain entrance to the Law Enforcement or Highway Patrol Academy.

#### **Law Enforcement 2**

Course #: 04124011

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: Law Enforcement 1

The second of two courses designed to provide students with the skills and knowledge necessary to obtain entrance to the Law Enforcement or Highway Patrol Academy.

#### **Practical Law**

Course #: 04104019

Credit Type: [Career & Technical](#)

Credit: 0.5

Practical Law introduces students to the framework of the legal system. Students will learn about immigration, criminal, tort, family, constitutional, and juvenile law.

#### **Work Based Learning Experience (coming in 2022-2023)**

Course #: **TBD**

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: CSLL Capstone

Work Based Learning Experience is a culminating pathway opportunity that allows students to use the skills they have learned in the real-world. Students will be enrolled in this course by their counselor after they have successfully applied, interviewed for, and been offered an internship. Students will be supervised by a pathway coordinator throughout the internship.

#### **Youth Court**

Course #: 04124012

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: At least 2 credits in the pathway

Students will apply their knowledge of the legal world from prior coursework to their school-level courtroom. Students in the course will observe and participate in the prosecution and/or defense of students who have violated student conduct within the school.

## Government & Public Administration

Available at J. C. Harmon and Sumner Academy

The Government and Public Administration pathway includes training for potential elected or appointed government officials and those responsible for making public policy. This pathway prepares students for public service. Leadership, consensus building, and conflict resolutions are important skills developed in this area.

### Courses in this Pathway:

Level	CTE Course Name	Pre-requisites or Co-requisites	Credits
<b>Introductory</b>	Introduction to Government & Public Administration	None	0.5
<b>Technical</b>	Fundamentals of Government & Public Administration	Introduction to Government & Public Administration (Pre-req)	0.5
	Practical Law	None	0.5
	Business Law	None	0.5
<b>Application</b>	Foundations in Law	At least 2 credits in the pathway (Pre-req)	1.0
	Youth Court	At least 2 credits in the pathway (Pre-req)	1.0
<b>Career Prep</b>	Government Capstone	At least 2 credits in the pathway (Pre-req)	1.0
	Work Based Learning Experience (coming in 2022-2023)	Government Capstone (Pre-req)	1.0

### Supplemental programs that Relate to this Pathway:

- TBD

#### Business Law

Course #: 11108015

Credit Type: [Career & Technical](#)

Credit: 1.0

Business Law emphasizes legal concepts that are relevant to business and business organizations. Topics examined in this course include contracts, buying/renting property, installment buying, insurance, buyer/seller relationships, negotiable instruments, employment, taxes, insurance, commercial papers, legal organizational structures, and consumer liabilities.

#### Foundations in Law

Course #: 04114015

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: At least 2 credits in the pathway

Foundations in Law students study how laws are created, enforced, interpreted, and changed. The course enables students to examine diverse areas of law, including criminal, civil, constitutional, and international. Civil rights issues and the role of advocacy, civics, and the media in our legal system are explored.

#### Fundamentals of Government & Public Administration

Course #: 04108021

Credit Type: [Career & Technical](#)

Credit: 0.5

Pre-Req: Introduction to Government & Public Administration

This course will look at meeting the needs of the U.S. culture through positions within Government and Public Administration. Topics will include the role of government in providing services for the U.S. population, the impact of the U.S. on other nations as well as the impact of other nations on the U.S., and the professional traits required of those in this field. In addition, it will look at the problem solving and critical thinking processes, and leadership and teamwork practices. (Revised 2020)

#### Government Capstone

Course #: TBD

Credit Type: [Career & Technical](#)

Credit: 1.0

Pre-Req: At least 2 credits in the pathway

The goal of the capstone is to focus on career preparation experience by deepening student knowledge and skill development for success in employment and postsecondary education. This course is recommended for students planning to enter the workforce directly after high school or enrolling in a postsecondary training program related to the career pathway. This course is structured to give students extensive practice in applying technical and practical skills in their chosen career.

#### Introduction to Government & Public Administration

Course #: 04098011

Credit Type: [Career & Technical](#)

Credit: 0.5

This course will introduce students to the knowledge and skills of serving the general public in a variety of occupations. Topics will include identifying personal strengths and weaknesses and setting career goals, leadership, teamwork and problem solving, analyzing leadership roles and identifying leadership opportunities within the school.

#### **Practical Law**

Course #: 04104019  
Credit: 0.5

Credit Type: [Career & Technical](#)

Practical Law introduces students to the framework of the legal system. Students will learn about immigration, criminal, tort, family, constitutional, and juvenile law.

#### **Work Based Learning Experience (coming in 2022-2023)**

Course #: **TBD**  
Credit: 1.0  
Pre-Req: Government Capstone

Credit Type: [Career & Technical](#)

Work Based Learning Experience is a culminating pathway opportunity that allows students to use the skills they have learned in the real-world. Students will be enrolled in this course by their counselor after they have successfully applied, interviewed for, and been offered an internship. Students will be supervised by a pathway coordinator throughout the internship.

#### **Youth Court**

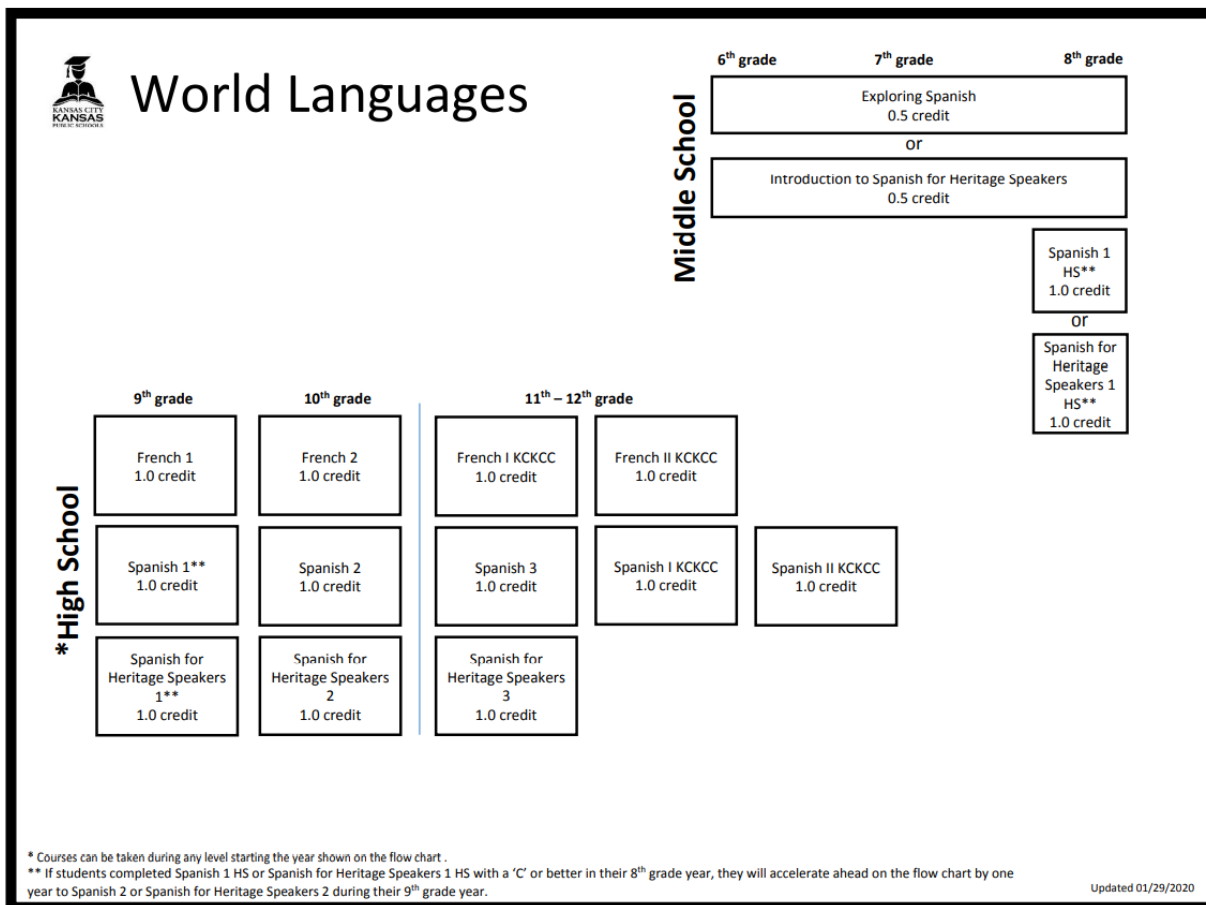
Course #: 04124012  
Credit: 1.0  
Pre-Req: At least 2 credits in the pathway

Credit Type: [Career & Technical](#)

Students will apply their knowledge of the legal world from prior coursework to their school-level courtroom. Students in the course will observe and participate in the prosecution and/or defense of students who have violated student conduct within the school.

## World Languages – High School

Course Name	Credit Type	Credit	College Credit	Pre/Co-Req	Grade	Other Information
French 1	World Lang	1.0	No	No	9-12	
French I KCKCC	World Lang	1.0	Yes	Yes	11-12	
French 2	World Lang	1.0	No	Yes	10-12	
French II KCKCC	World Lang	1.0	Yes	Yes	11-12	
French 3	World Lang	1.0	No	Yes	11-12	
French 4 IBH	World Lang	1.0	No	Yes	11-12	Sumner Academy ONLY
French 4 IBS	World Lang	1.0	No	Yes	11-12	Sumner Academy ONLY
French 5 IBH	World Lang	1.0	No	Yes	11-12	Sumner Academy ONLY
French 5 IBS	World Lang	1.0	No	Yes	11-12	Sumner Academy ONLY
Spanish 1	World Lang	2.0	No	Yes	9-12	
Spanish for Heritage Speakers 1	World Lang	1.0	No	Yes	9-12	
Spanish I KCKCC	World Lang	1.0	Yes	Yes	11-12	
Spanish 2	World Lang	1.0	No	Yes	10-12	
Spanish Heritage Speakers 2	World Lang	1.0	No	Yes	10-12	
Spanish II KCKCC	World Lang	1.0	Yes	Yes	11-12	
Spanish 3	World Lang	1.0	No	Yes	11-12	
Spanish Heritage Speakers 3	World Lang	1.0	No	Yes	11-12	
Spanish 4 IBH	World Lang	1.0	No	Yes	11-12	Sumner Academy ONLY
Spanish 4 IBS	World Lang	1.0	No	Yes	11-12	Sumner Academy ONLY
Spanish Literature 4 IBH	World Lang	1.0	No	Yes	11-12	Sumner Academy ONLY
Spanish Literature 4 IBS	World Lang	1.0	No	Yes	11-12	Sumner Academy ONLY
Spanish 5 IBH	World Lang	1.0	No	Yes	11-12	Sumner Academy ONLY
Spanish 5 IBS	World Lang	1.0	No	Yes	11-12	Sumner Academy ONLY
Spanish Literature 5 IBH	World Lang	1.0	No	Yes	11-12	Sumner Academy ONLY
Spanish Literature 5 IBS	World Lang	1.0	No	Yes	11-12	Sumner Academy ONLY



### French 1

Course #: 05092020  
Credit: 1.0

Credit Type: World Languages  
Grade Level: 9-12

This course is designed to meet the needs and interests of students who have had little or no experience learning a foreign language. This course is an introduction to the basic forms of language usage in grammar. Students build vocabulary, engage in elementary conversations and develop skills in listening, reading strategies and process writing. Students are introduced to the cultures of the countries where the language is spoken. Language is pursued as a live communication tool in all facets of daily life.

### French I KCKCC

Course #: 05122010  
Credit: 1.0

Credit Type: World Languages  
Grade Level: 11-12

This is the high school course for KCKCC LANG-0101 - French I, 5 credit hours KCKCC Description: Students acquire basic skills at a reasonable level of proficiency. The course is integrated with cultural aspects which form the basis of objectives for all language study. Primary emphasis is on the four essential skills: listening, speaking, reading, and writing within which the components of grammar and culture are included. Prerequisites: Accuplacer Score of 240 on Reading test. (Rev. Feb 2020; <https://www.kckcc.edu/files/docs/academics/catalog/2018-2019/course-descriptions.pdf>)

### French 2

Course #: 05102020  
Credit: 1.0  
Pre-Req: French 1

Credit Type: World Languages  
Grade Level: 10-12

This course reviews and strengthens basic skills acquired in French 1. These skills are further refined and developed through expanded study of fundamentals of the language. Students begin to read controlled narratives and write simple compositions. Cultural appreciation is an integral part of this course.

### French II KCKCC



Course #: 05122011  
Credit: 1.0  
Pre-Req: French 1 KCKCC

Credit Type: World Languages  
Grade Level: 11-12

This is the high school course for KCKCC LANG-0102 - French II, 5 credit hours KCKCC Description: Students acquire basic skills at a reasonable level of proficiency. The course is integrated with cultural aspects which form the basis of objectives for all language study. Primary emphasis is on the four essential skills: listening, speaking, reading, and writing. Pre-requisites: French I, LANG-0101 (Rev. Feb 2020; <https://www.kckcc.edu/files/docs/academics/catalog/2018-2019/course-descriptions.pdf>)

### French 3

Course #: 05112020  
Credit: 1.0  
Pre-Req: French 2

Credit Type: World Languages  
Grade Level: 11-12

French III courses focus on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations.

### French 4 IBH

Course #: 05142014  
Credit: 1.0  
Pre-Req: French 3

Credit Type: World Languages  
Grade Level: 11-12

(Sumner Academy ONLY) IB Language B French courses prepare students to take the International Baccalaureate Language B exams at either the Subsidiary or Higher level. These courses focus on improving students accuracy and fluency in oral and written communication (usually in the students second language). Students preparing to take the Subsidiary level exam will be able to understand native speakers; students preparing for the Higher level exam will be able to communicate fluently at native speed.

### French 4 IBS

Course #: 05142012  
Credit: 1.0  
Pre-Req: French 3

Credit Type: World Languages  
Grade Level: 11-12

(Sumner Academy ONLY) IB Language B French courses prepare students to take the International Baccalaureate Language B exams at either the Subsidiary or Higher level. These courses focus on improving student's accuracy and fluency in oral and written communication (usually in the students second language). Students preparing to take the Subsidiary level exam will be able to understand native speakers; students preparing for the Higher level exam will be able to communicate fluently at native speed.

### French 5 IBH

Course #: 05142032  
Credit: 1.0  
Pre-Req: French 4

Credit Type: World Languages  
Grade Level: 11-12

(Sumner Academy ONLY) IB Language B French courses prepare students to take the International Baccalaureate Language B exams at either the Subsidiary or Higher level. These courses focus on improving student's accuracy and fluency in oral and written communication (usually in the students second language). Students preparing to take the Subsidiary level exam will be able to understand native speakers; students preparing for the Higher level exam will be able to communicate fluently at native speed.

### French 5 IBS

Course #: 05142022  
Credit: 1.0  
Pre-Req: French 4

Credit Type: World Languages  
Grade Level: 11-12

(Sumner Academy ONLY) IB Language B French courses prepare students to take the International Baccalaureate Language B exams at either the Subsidiary or Higher level. These courses focus on improving student's accuracy and fluency in oral and written communication (usually in the students second language). Students preparing to take the Subsidiary level exam will be able to understand native speakers; students preparing for the Higher level exam will be able to communicate fluently at native speed.

### Spanish 1

Course #: 05091011  
Credit: 1.0

Credit Type: World Languages  
Grade Level: 9-12

This course is designed to meet the needs and interests of students who have had little or no experience learning a foreign language. This course is an introduction to the basic forms of language usage in grammar. Students build vocabulary, engage in elementary conversations

and develop skills in listening, reading strategies and process writing. Students are introduced to the cultures of the countries where the language is spoken. Language is pursued as a live communication tool in all facets of daily life.

#### **Spanish Heritage Speakers 1**

Course #: 05091024  
Credit: 1.0

Credit Type: World Languages  
Grade Level: 9-12

This course is intended for Spanish speaking students who wish to enroll in a course which will respond to the specific needs that they may have with Spanish language development. It is for native Spanish speakers who speak Spanish at home, who speak, read and write some Spanish, but have limited proficiency in one or more of these areas. The course will allow the students to develop linguistic skills in their native language. It will also help students recognize the value of their language and experiences native speakers bring with them into the classroom. It will also point out the value of being bilingual when considering career opportunities.

#### **Spanish I KCKCC**

Course #: 05121010  
Credit: 1.0

Credit Type: World Languages  
Grade Level: 11-12

This is the high school course for KCKCC LANG-0141 - Spanish I, 5 credit hours KCKCC Description: Spanish I is the first semester of Spanish for students with little or no previous instruction in Spanish. This course enables students to attain a basic competency in all language skills: speaking, listening, reading, writing, and culture. Pre-requisites: Accuplacer Score of 240 on Reading test (Rev. Feb 2020; <https://www.kckcc.edu/files/docs/academics/catalog/2018-2019/course-descriptions.pdf>)

#### **Spanish 2**

Course #: 05101020  
Credit: 1.0

Credit Type: World Languages  
Grade Level: 10-12

Pre-Req: Spanish 1 or Spanish 1 Heritage Speakers 1

This course reviews and strengthens basic skills acquired in Spanish 1. These skills are further refined and developed through expanded study of fundamentals of the language. Students begin to read controlled narratives and write simple compositions. Cultural appreciation is an integral part of this course. (rev. Jan 2020)

#### **Spanish Heritage Speakers 2**

Course #: 05101034  
Credit: 1.0

Credit Type: World Languages  
Grade Level: 10-12

Pre-Req: Spanish 1 or Spanish 1 Heritage Speakers 1

This course reviews and strengthen the basic skills from Spanish for Heritage Speakers 1. Students continue the study of major structures of the language while acquiring a broader vocabulary base sufficient to speak, read, listen, and comprehend in most everyday situations. Students read a variety of literary genres such as short stories, poetry, and drama in the target language. Students gain a deeper understanding of the cultures where the target language is spoken.

#### **Spanish II KCKCC**

Course #: 05121011  
Credit: 1.0

Credit Type: World Languages  
Grade Level: 11-12

Pre-Req: Spanish I KCKCC

This is the high school course for KCKCC LANG-0142 - Spanish II, 5 credit hours KCKCC Description: The Spanish II curriculum emphasizes the combination of conversation, reading, writing, grammar and culture. Pre-requisites: Spanish 1, Lang 0141 (Rev. Feb 2020; <https://www.kckcc.edu/files/docs/academics/catalog/2018-2019/course-descriptions.pdf>)

#### **Spanish 3**

Course #: 05111002  
Credit: 1.0

Credit Type: World Languages  
Grade Level: 11-12

Pre-Req: Spanish 2 or Spanish Heritage Speakers 2

This course focuses on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations.

#### **Spanish Heritage Speakers 3**

Course #: 05111032  
Credit: 1.0

Credit Type: World Languages  
Grade Level: 11-12

Pre-Req: Spanish 2 or Spanish Heritage Speakers 2

This course reviews and strengthens the basic skills from Spanish for Heritage Speakers 1 & 2. Students continue the study of major structures of the language while acquiring a broader vocabulary base sufficient to speak, read, listen, and comprehend in most everyday situations. Students read a variety of literary genres such as short stories, poetry, and drama in the target language. Students gain a deeper understanding of the cultures where the target language is spoken.

#### **Spanish 4 IBH**

Course #: 05141052

Credit Type: World Languages

Credit: 1.0

Grade Level: 11-12

Pre-Req: Spanish 3 or Spanish Heritage Speakers 3

(Sumner Academy ONLY) IB Language B Spanish courses prepare students to take the International Baccalaureate Language B exams at either the Subsidiary or Higher level. These courses focus on improving student's accuracy and fluency in oral and written communication (usually in the student's second language). Students preparing to take the Subsidiary level exam will be able to understand native speakers; students preparing for the Higher level exam will be able to communicate fluently at native speed.

#### **Spanish 4 IBS**

Course #: 05141012

Credit Type: World Languages

Credit: 1.0

Grade Level: 11-12

Pre-Req: Spanish 3 or Spanish Heritage Speakers 3

(Sumner Academy ONLY) IB Language B Spanish courses prepare students to take the International Baccalaureate Language B exams at either the Subsidiary or Higher level. These courses focus on improving student's accuracy and fluency in oral and written communication (usually in the student's second language). Students preparing to take the Subsidiary level exam will be able to understand native speakers; students preparing for the Higher level exam will be able to communicate fluently at native speed.

#### **Spanish Literature 4 IBH**

Course #: 05141054

Credit Type: World Languages

Credit: 1.0

Grade Level: 11-12

Pre-Req: Spanish 3

(Sumner Academy ONLY) IB Language A (non-English) Spanish courses prepare students to take the International Baccalaureate Language A exams at either the Subsidiary or Higher level. Course content includes in-depth study of literature chosen from the appropriate IB list of texts and authors, written analyses of this literature, and other oral and written assignments. Course content is designed to improve student accuracy and fluency in the language, which is usually the student's native tongue.

#### **Spanish Literature 4 IBS**

Course #: 05141014

Credit Type: World Languages

Credit: 1.0

Grade Level: 11-12

Pre-Req: Spanish 3

(Sumner Academy ONLY) IB Language A (non-English) Spanish courses prepare students to take the International Baccalaureate Language A exams at either the Subsidiary or Higher level. Course content includes in-depth study of literature chosen from the appropriate IB list of texts and authors, written analyses of this literature, and other oral and written assignments. Course content is designed to improve student accuracy and fluency in the language, which is usually the student's native tongue.

#### **Spanish 5 IBH**

Course #: 05141032

Credit Type: World Languages

Credit: 1.0

Grade Level: 11-12

Pre-Req: Spanish 4

(Sumner Academy ONLY) IB Language B Spanish courses prepare students to take the International Baccalaureate Language B exams at either the Subsidiary or Higher level. These courses focus on improving student's accuracy and fluency in oral and written communication (usually in the student's second language). Students preparing to take the Subsidiary level exam will be able to understand native speakers; students preparing for the Higher level exam will be able to communicate fluently at native speed.

#### **Spanish 5 IBS**

Course #: 05141022

Credit Type: World Languages

Credit: 1.0

Grade Level: 11-12

Pre-Req: Spanish 4

(Sumner Academy ONLY) IB Language B Spanish courses prepare students to take the International Baccalaureate Language B exams at either the Subsidiary or Higher level. These courses focus on improving student's accuracy and fluency in oral and written communication (usually in the student's second language). Students preparing to take the Subsidiary level exam will be able to understand native speakers; students preparing for the Higher level exam will be able to communicate fluently at native speed.

**Spanish Literature 5 IBH**

Course #: 05141034  
Credit: 1.0  
Pre-Req: Spanish 4

Credit Type: World Languages  
Grade Level: 11-12

(Sumner Academy ONLY) IB Language B Spanish courses prepare students to take the International Baccalaureate Language B exams at either the Subsidiary or Higher level. These courses focus on improving student's accuracy and fluency in oral and written communication (usually in the students second language). Students preparing to take the Subsidiary level exam will be able to understand native speakers; students preparing for the Higher level exam will be able to communicate fluently at native speed.

**Spanish Literature 5 IBS**

Course #: 05141024  
Credit: 1.0  
Pre-Req: Spanish 4

Credit Type: World Languages  
Grade Level: 11-12

(Sumner Academy ONLY) IB Language B Spanish courses prepare students to take the International Baccalaureate Language B exams at either the Subsidiary or Higher level. These courses focus on improving student's accuracy and fluency in oral and written communication (usually in the students second language). Students preparing to take the Subsidiary level exam will be able to understand native speakers; students preparing for the Higher level exam will be able to communicate fluently at native speed.

## ROTC – High School

ROTC Program available at Washington HS ONLY

The Air Force Junior Reserve Officer Training Corps (AFJROTC) program at Washington High School teaches leadership and management skills through the KS-931st AFJROTC Wing. Our mission is simply developing citizens of character dedicated to serving the nation and community. Enrollment in the corps in no way obligates the cadet for military service. Instructors have extensive professional military education and training as well as many years experience teaching and training others.

Course Name	Credit Type	Credit	College Credit	Pre/Co-Req	Grade	Other Information
Milestones of Aviation History AS1	ELECTIVE	1.0	No	No	9-12	Washington HS ONLY
Science of Flight AS2	ELECTIVE	1.0	No	Yes	10-12	Washington HS ONLY
Exploration of Space AS3	ELECTIVE	1.0	No	Yes	11-12	Washington HS ONLY
Global & Cultural Studies AS4	ELECTIVE	1.0	No	Yes	12	Washington HS ONLY
Military Drill & Ceremony 1	ELECTIVE	1.0	No	No	10-12	Washington HS ONLY
Military Drill & Ceremony 2	ELECTIVE	1.0	No	Yes	11-12	Washington HS ONLY
Military Drill & Ceremony 3	ELECTIVE	1.0	No	Yes	12	Washington HS ONLY
Leadership of the Cadet Corps	ELECTIVE	1.0	No	Yes	12	Washington HS ONLY

### Milestones Aviation History AS1

Course #: 04093004  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 9-12

(Washington HS ONLY) Journey into Aviation History: Aerospace Science 1 is recommended for all new ROTC cadets. It is an aviation history course focusing on the development of flight throughout the centuries. It starts with ancient civilizations, then progresses through time.

### Science of Flight AS2

Course #: 04103004  
Credit: 1.0  
Pre-Req: Milestones Aviation Hist AS1

Credit Type: **ELECTIVE**  
Grade Level: 10-12

(Washington HS ONLY) The Science of Flight is taken the second year of the ROTC program and is designed to acquaint the student with the aerospace environment, the human requirements of flight, principles of aircraft flight, and principles of navigation. The course begins with a discussion of the atmosphere and weather. Students will develop an understanding of the environment and will be introduced to how that environment affects flight. Discussions include the forces of lift, drag, thrust and weight. Students will also learn basic navigation, including map reading, course plotting and the effects of wind. Human physiology is also discussed regarding the effects of acceleration and deceleration and protective equipment.

### Exploration of Space AS3

Course #: 04113004  
Credit: 1.0  
Pre-Req: Science of Flight AS2

Credit Type: **ELECTIVE**  
Grade Level: 11-12

(Washington HS ONLY) The Exploration of Space is taken the third year of ROTC. The course examines Earth, the moon and the planets as well as the latest advances in space technology and the continuing challenges of space and manned spaceflight. Issues that are critical to travel in the upper atmosphere, such as orbits and trajectories, unmanned satellites, space probes, guidance and control systems are explained. The manned spaceflight section covers major milestones in the endeavor to land on the moon and to safely orbit humans and crafts in space for temporary and prolonged periods. The development of space stations, the Space Shuttle and its future, and international laws for the use of and travel in space.

### Global & Cultural Studies AS4

Course #: 04123004  
Credit: 1.0  
Pre-Req: Exploration of Space AS3

Credit Type: **ELECTIVE**  
Grade Level: 12

(Washington HS ONLY) Global and Cultural Studies is a preferred AS component for second-year students and is a multidisciplinary course that introduces students to various regions of the world from a geographic, historical and cultural perspective. The course provides increased international awareness and insight into foreign affairs that permits a more educated understanding of other cultures and enhanced knowledge of America's interests and role in the world. Geopolitical issues such as terrorism, economics, politics, military issues, religion, environmental concerns, human rights, disease, over population, literacy, the migration of peoples and other cultural issues will be examined. The regional areas included in this course are Europe, the Middle East, South Asia, East Asia, Africa, and Latin America. The lessons include excellent videos to provide a window into life and issues within the regions, followed by a variety of hands-on activities created to engage the student. Readings are also available to set the stage for each lesson, along with workbook exercises suitable for in-class or homework assignments.

### **Military Drill & Ceremony 1**

Course #: 04103006  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 10-12

Military Drill & Ceremony 1 provides fundamental and in-depth instruction in Air Force drill and ceremonies. The course concentrates on the elements of military drill and describes individual and group precision movements, procedures for saluting, drill, ceremonies, reviews, parades and development of command voice. Students are provided detailed instruction on ceremonial performances and protocol for civilian and military events and have the opportunity to personally learn Air Force drill concepts and procedures. Students will concentrate on perfecting unarmed drill and ceremony sequences. The course will introduce the student to armed and exhibition drill sequences which are performed using inert ceremonial replica rifles.

### **Military Drill & Ceremony 2**

Course #: 04113006  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

Pre-Req: Military Drill & Ceremony 1

Military Drill & Ceremony 2 provides a more in-depth instruction in Air Force drill and ceremonies. The students will concentrate on elements of military drill and describes individual and group precision movements, procedures for saluting, drill ceremonies, reviews, parades and development of command voice, with an emphasis on leadership. Students are provided detailed instruction on ceremonial performances and protocol for civilian and military events and have the opportunity to personally learn Air Force drill concepts and procedures. The course will give the student a more focused and detailed training in armed exhibition drill sequences which are performed using inert ceremonial replica rifles. Students will concentrate on leading drill and ceremony sequences.

### **Military Drill & Ceremony 3**

Course #: 04123006  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 12

Pre-Req: Military Drill & Ceremony 2

Military Drill & Ceremony 3 provides a more in-depth instruction in Air Force drill and ceremonies. The students will concentrate on elements of military drill and describes individual and group precision movements, procedures for saluting, drill ceremonies, reviews, parades and development of command voice, with an emphasis on leadership. Students are provided detailed instruction on ceremonial performances and protocol for civilian and military events and have the opportunity to personally learn Air Force drill concepts and procedures. The course will give the student a more focused and detailed training in armed exhibition drill sequences which are performed using inert ceremonial replica rifles. Students will concentrate on leading drill and ceremony sequences.

### **Leadership of the Cadet Corps**

Course #: 04123008  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 12

Pre-Req: Ceremony Sequence

(Washington HS ONLY) In Management of the Cadet Corps, the cadets should manage the entire corps during their fourth year in the Air Force Junior ROTC program. This hands-on experience affords cadets the opportunity to put theories of previous leadership courses into practice. Planning, organizing, coordinating, directing, controlling, and decision-making will be done by cadets. They will put into practice their communication, decision-making, personal-interaction, managerial, and organizational skills. Instructors should keep in mind that since there is no textbook for this course, the course syllabus will be structured so that cadets achieve course objectives by completing core management activities.

## Additional Electives – High School

Course Name	Credit Type	Credit	College Credit	Pre/Co-Req	Grade	Other Information
ACT Preparation	ELECTIVE	0.5	No	No	9-12	
KS Jobs for America's Grad	ELECTIVE	1.0	No	No	9-12	
Tech Impact 1	ELECTIVE	1.0	No	No	11-12	Available as part of the Tech Impact program – see description in Special Programs
Tech Impact 2	ELECTIVE	1.0	No	No	11-12	Available as part of the Tech Impact program – see description in Special Programs
Tech Impact 3	ELECTIVE	1.0	No	No	11-12	Available as part of the Tech Impact program – see description in Special Programs
Tech Impact 4	ELECTIVE	1.0	No	No	11-12	Available as part of the Tech Impact program – see description in Special Programs
Biology 1 IBH	ELECTIVE	1.0	No	No	11-12	Summer Academy ONLY - See description in Science
Biology 1 IBS	ELECTIVE	1.0	No	No	11-12	Summer Academy ONLY - See description in Science
Biology 2 IBH	ELECTIVE	1.0	No	No	11-12	Summer Academy ONLY - See description in Science
Biology 2 IBS	ELECTIVE	1.0	No	No	11-12	Summer Academy ONLY - See description in Science
Chemistry 1 IBH	ELECTIVE	1.0	No	No	11-12	Summer Academy ONLY - See description in Science
Chemistry 1 IBS	ELECTIVE	1.0	No	No	11-12	Summer Academy ONLY - See description in Science
Chemistry 2 IBH	ELECTIVE	1.0	No	No	11-12	Summer Academy ONLY - See description in Science
Chemistry 2 IBS	ELECTIVE	1.0	No	No	11-12	Summer Academy ONLY - See description in Science
Environmental Systems & Society 1 IBS	ELECTIVE	1.0	No	No	11-12	Summer Academy ONLY - See description in Science
Environmental Systems & Society 2 IBS	ELECTIVE	1.0	No	No	11-12	Summer Academy ONLY - See description in Science
Physics 1 IBS	ELECTIVE	1.0	No	No	11-12	Summer Academy ONLY - See description in Science
Sports Exercise & Health Science 1 IBS	ELECTIVE	1.0	No	No	11-12	Summer Academy ONLY - See description in Science
Sports Exercise & Health Science 2 IBS	ELECTIVE	1.0	No	No	11-12	Summer Academy ONLY - See description in Science
Introduction Criminal Justice KCKCC	ELECTIVE	1.0	Yes	No	11-12	See description in Social Studies
World Geography	ELECTIVE	0.5	No	No	9-12	See description in Social Studies
Human Rights Studies	ELECTIVE	0.5	No	No	9-12	See description in Social Studies
Psychology	ELECTIVE	0.5	No	No	10-12	See description in Social Studies
Sociology	ELECTIVE	0.5	No	No	10-12	See description in Social Studies
Psychology KCKCC	ELECTIVE	1.0	Yes	Yes	11-12	See description in Social Studies
Sociology KCKCC	ELECTIVE	1.0	Yes	Yes	11-12	See description in Social Studies
Exploration of Space AS3	ELECTIVE	1.0	No	No	11-12	Available as part of the ROTC program – see description in ROTC
Global & Cultural Studies AS4	ELECTIVE	1.0	No	No	12	See description in Social Studies
Global Politics 1 IBS	ELECTIVE	1.0	No	No	11-12	Summer Academy ONLY - See description in Social Studies
Global Politics 2 IBS	ELECTIVE	1.0	No	No	11-12	Summer Academy ONLY - See description in Social Studies
Information Technology in Global Society 1 IBS	ELECTIVE	1.0	No	No	11-12	Summer Academy ONLY - See description in Social Studies

Information Technology in Global Society 2 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Social Studies
Leadership of the Cadet Corps	ELECTIVE	1.0	No	No	12	Available as part of the ROTC program – see description in ROTC
Milestones Aviation History AS1	ELECTIVE	1.0	No	No	9-12	Available as part of the ROTC program – see description in ROTC
Psychology 1 IBH	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Social Studies
Psychology 1 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Social Studies
Psychology 2 IBH	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Social Studies
Psychology 2 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Social Studies
Science of Flight AS2	ELECTIVE	1.0	No	No	10-12	Available as part of the ROTC program – see description in ROTC
Social/Cultural Anthropology 1 IBH	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Social Studies
Social/Cultural Anthropology 1 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Social Studies
Social/Cultural Anthropology 2 IBH	ELECTIVE	1.0	No	No	11-12	S Sumner Academy ONLY - See description in Social Studies
Social/Cultural Anthropology 2 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Social Studies
World Religions IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Social Studies
Creative Writing	ELECTIVE	0.5	No	No	9-12	See description in English
Classic Film & Literature	ELECTIVE	0.5	No	No	9-12	See description in English
Yearbook Production	ELECTIVE	1.0	No	No	10-12	See description in English
Composition & Research	ELECTIVE	0.5	No	No	11-12	See description in English
Shakespeare	ELECTIVE	0.5	No	No	12	See description in English
Public Speaking KCKCC	ELECTIVE	1.0	Yes	No	11-12	See description in English
Research Project IB	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in English
Theory of Knowledge 1 IB	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in English
Theory of Knowledge 2 IB	ELECTIVE	0.5	No	No	11-12	Sumner Academy ONLY - See description in English
Athletic Weight Training 1	ELECTIVE	0.5	No	Yes	9-12	See description in Physical Education
Athletic Weight Training 2	ELECTIVE	0.5	No	No	9-12	See description in Physical Education
Modern Dance 2	ELECTIVE	0.5	No	Yes	9-12	See description in Physical Education
Fitness/Conditioning 2	ELECTIVE	0.5	No	Yes	9-12	See description in Physical Education
Team Sports 2	ELECTIVE	0.5	No	Yes	9-12	See description in Physical Education
Fitness/Conditioning 3	ELECTIVE	0.5	No	Yes	9-12	See description in Physical Education
TEC Auto Collision Repair	ELECTIVE	2.0	No	Yes	11-12	Available as part of a program - See description in TEC
TEC Automotive Tech	ELECTIVE	2.0	No	Yes	11-12	Available as part of a program - See description in TEC
TEC Building Engineering and Maintenance Technology	ELECTIVE	2.0	No	Yes	11-12	Available as part of a program - See description in TEC
TEC Computer Aided Drafting	ELECTIVE	2.0	No	Yes	11-12	Available as part of a program - See description in TEC
TEC Commercial and Residential Equipment Technician	ELECTIVE	2.0	No	Yes	11-12	Available as part of a program - See description in TEC



TEC Computer Support Specialist	ELECTIVE	2.0	No	Yes	11-12	Available as part of a program - See description in TEC
TEC Construction Technology	ELECTIVE	2.0	No	Yes	11-12	Available as part of a program - See description in TEC
TEC Cosmetology	ELECTIVE	3.0	No	Yes	12	Available as part of a program - See description in TEC
TEC Culinary Arts	ELECTIVE	2.0	No	Yes	11-12	Available as part of a program - See description in TEC
TEC Cybersecurity	ELECTIVE	2.0	No	Yes	11-12	Available as part of a program - See description in TEC
TEC Electrical Technology	ELECTIVE	2.0	No	Yes	11-12	Available as part of a program - See description in TEC
TEC Health Careers	ELECTIVE	2.0	No	Yes	11-12	Available as part of a program - See description in TEC
TEC Machine Technology	ELECTIVE	2.0	No	Yes	11-12	Available as part of a program - See description in TEC
TEC Medical Assistant	ELECTIVE	2.0	No	Yes	11-12	Available as part of a program - See description in TEC
TEC Multimedia	ELECTIVE	2.0	No	Yes	11-12	Available as part of a program - See description in TEC
TEC Nail Technology	ELECTIVE	2.0	No	Yes	11-12	Available as part of a program - See description in TEC
TEC Office Assistant	ELECTIVE	2.0	No	Yes	11-12	Available as part of a program - See description in TEC
TEC Power Plant Technology 2	ELECTIVE	2.0	No	Yes	11-12	Available as part of a program - See description in TEC
TEC Welding Technology	ELECTIVE	2.0	No	Yes	11-12	Available as part of a program - See description in TEC

#### ACT Preparation

Course #: 99119011  
Credit: 1.0

Credit Type: ELECTIVE  
Grade Level: 9-12

ACT Preparation is designed to ready students to take the ACT test.

#### KS Jobs for America's Grad

Course #: 19091021  
Credit: 1.0

Credit Type: ELECTIVE  
Grade Level: 9-12

Life Skills courses provide students with information about a wide range of subjects to assist them in becoming wise consumers and productive adults. These courses often emphasize such topics as goal-setting, decision-making, and setting priorities; money and time management; relationships; and the development of the self. Practical exercises regarding selecting and furnishing houses, meeting transportation needs, preparing food, selecting clothing, and building a wardrobe are often integral to these classes. In addition, specific topics such as insurance, taxation, and consumer protection may also be covered.

## Advanced Placement (AP) – High School

Advanced Placement and Pre-AP courses are available for high school students. The exact courses scheduled at a building each school year depend on student interest and instructor availability. See the school counselor for additional information.

Course Name	Credit Type	Credit	College Credit	Pre/Co-Req	Grade	Other Information
American Government AP	Social Studies	1.0	No	No	11-12	See description in Social Studies
Chemistry AP	Science	1.0	No	No	11-12	See description in Science
English 1 Pre-AP	English	1.0	No	No	11-12	See description in English
English 2 Pre-AP	English	1.0	No	No	11-12	See description in English
English Language & Composition AP	English	1.0	No	No	11-12	See description in English Language Arts
English Literature & Composition AP	English	1.0	No	No	11-12	See description in English Language Arts
Environmental Science AP	Science	1.0	No	No	9-12	See description in Science
Statistics AP	Math		No	No	11-12	See description in Math
World History & Geography Pre-AP	Social Studies	1.0	No	No	9-12	See description in Social Studies

## Honors – High School

Course Name	Credit Type	Credit	College Credit	Pre/Co-Req	Grade	Other Information
Algebra 1 Honors	Math	1.0	No	No	9-12	See description in Math
Algebra 2/Trigonometry Honors	Math	1.0	No	Yes	11-12	See description in Math
English 1 Honors	English	1.0	No	No	9-12	See description in English
English 2 Honors	English	1.0	No	Yes	10-12	See description in English
Geometry Honors	Math	1.0	No	Yes	10-12	See description in Math
Pre-calculus Honors	Math	1.0	No	Yes	12	See description in Math

## International Baccalaureate (IB) – High School

IB courses are offered at Sumner Academy ONLY

Course Name	Credit Type	Credit	College Credit	Pre/Co-Req	Grade	Other Information
Art & Design 1 IBH	Fine Arts	1.0	No	No	11-12	Sumner Academy ONLY - See description in Art
Art & Design 2 IBH	Fine Arts	1.0	No	No	11-12	Sumner Academy ONLY - See description in Art
Biology 1 IBH	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Sci
Biology 1 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Sci
Biology 2 IBH	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Sci
Biology 2 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Sci
Chemistry 1 IBH	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Science
Chemistry 1 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Sci
Chemistry 2 IBH	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Sci
Chemistry 2 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Sci
English 3 IBH	English	1.0	No	No	11-12	Sumner Academy ONLY - See description in Eng
English 4 IBH	English	1.0	No	No	11-12	Sumner Academy ONLY - See description in Eng
English Language & Literature 3 IBH	English	1.0	No	No	11-12	Sumner Academy ONLY - See description in Eng
English Language & Literature 4 IBH	English	1.0	No	No	11-12	Sumner Academy ONLY - See description in Eng
Environmental Systems & Society 1 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Sci
Environmental Systems & Society 2 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Sci
French 4 IBH	World Lang	1.0	No	No	11-12	Sumner Academy ONLY - See description in World Lang
French 4 IBS	World Lang	1.0	No	No	11-12	Sumner Academy ONLY - See description in World Lang
French 5 IBH	World Lang	1.0	No	No	11-12	Sumner Academy ONLY - See description in World Lang
French 5 IBS	World Lang	1.0	No	No	11-12	Sumner Academy ONLY - See description in World Lang
Global Politics 1 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Soc St
Global Politics 2 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Soc St
History 2 IBH	Soc St	1.0	No	No	11-12	Sumner Academy ONLY - See description in Soc St
History of Africa 1 IBH	Soc St	1.0	No	No	11-12	Sumner Academy ONLY - See description in Soc St
History of Asia/Pacific Rim 1 IBH	Soc St	1.0	No	No	11-12	Sumner Academy ONLY - See description in Soc St
History of the Americas 1 IBH	Soc St	1.0	No	No	11-12	Sumner Academy ONLY - See description in Soc St
Information Technology in Global Society 1 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Soc St
Information Technology in Global Society 2 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Soc St
Math Analysis & Approach 1 IBH	Math	1.0	No	No	11-12	Sumner Academy ONLY - See description in Math
Math Analysis & Approach 1 IBS	Math	1.0	No	No	11-12	Sumner Academy ONLY - See description in Math
Math Analysis & Approach 2 IBH	Math	1.0	No	No	11-12	Sumner Academy ONLY - See description in Math
Math Analysis & Approach 2 IBS	Math	1.0	No	No	11-12	Sumner Academy ONLY - See description in Math
Math Applications and Interpretations 1 IB	Math	1.0	No	No	11-12	Sumner Academy ONLY - See description in Math
Math Applications and Interpretations 1 IBH	Math	1.0	No	No	11-12	Sumner Academy ONLY - See description in Math
Math Applications and Interpretations 2 IBH	Math	1.0	No	No	11-12	Sumner Academy ONLY - See description in Math
Math Applications and Interpretations 2 IBS	Math	1.0	No	No	11-12	Sumner Academy ONLY - See description in Math
Music IBS	Fine Arts	1.0	No	No	11-12	Sumner Academy ONLY - See description in Music
Personal/Professional Skills 1 IB	English	1.0	No	No	11-12	Sumner Academy ONLY - See description in Eng
Personal/Professional Skills 2 IB	English	1.0	No	No	11-12	Sumner Academy ONLY - See description in Eng
Physics 1 IBH	Science	1.0	No	No	11-12	Sumner Academy ONLY - See description in Sci
Physics 1 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Sci
Physics 2 IBH	Science	1.0	No	No	11-12	Sumner Academy ONLY - See description in Sci
Physics 2 IBS	Science	1.0	No	No	11-12	Sumner Academy ONLY - See description in Sci
Psychology 1 IBH	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Soc St
Psychology 1 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Soc St

Psychology 2 IBH	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Soc St
Psychology 2 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Soc St
Research Project IB	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Eng
Social/Cultural Anthropology 1 IBH	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Soc St
Social/Cultural Anthropology 1 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Soc St
Social/Cultural Anthropology 2 IBH	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Soc St
Social/Cultural Anthropology 2 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Soc St
Spanish 4 IBH	World Lang	1.0	No	No	11-12	Sumner Academy ONLY - See description in World Lang
Spanish 4 IBS	World Lang	1.0	No	No	11-12	Sumner Academy ONLY - See description in World Lang
Spanish 5 IBH	World Lang	1.0	No	No	11-12	Sumner Academy ONLY - See description in World Lang
Spanish 5 IBS	World Lang	1.0	No	No	11-12	Sumner Academy ONLY - See description in World Lang
Spanish Literature 4 IBH	World Lang	1.0	No	No	11-12	Sumner Academy ONLY - See description in World Lang
Spanish Literature 4 IBS	World Lang	1.0	No	No	11-12	Sumner Academy ONLY - See description in World Lang
Spanish Literature 5 IBH	World Lang	1.0	No	No	11-12	Sumner Academy ONLY - See description in World Lang
Spanish Literature 5 IBS	World Lang	1.0	No	No	11-12	Sumner Academy ONLY - See description in World Lang
Sports Exercise & Health Science 1 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Sci
Sports Exercise & Health Science 2 IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Sci
Theory of Knowledge 1 IB	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Eng
Theory of Knowledge 2 IB	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Eng
World Religions IBS	ELECTIVE	1.0	No	No	11-12	Sumner Academy ONLY - See description in Soc St

Kansas City Kansas Community College Dual Enrollment Courses (KCKCC) – High School

Course Name	Credit Type	Credit	College Credit	Pre/Co-Req	Grade	Other Information
American Government KCKCC	Soc St	1.0	Yes	No	11-12	See description in Social Studies
Biology KCKCC	Science	1.0	Yes	No	11-12	See description in Science
Calculus II KCKCC	Math	1.0	Yes	Yes	11-12	See description in Math
Calculus KCKCC	Math	1.0	Yes	Yes	11-12	See description in Math
College Algebra KCKCC	Math	1.0	Yes	Yes	11-12	See description in Math
College Chemistry 1 & Lab KCKCC	Science	1.0	Yes	No	11-12	See description in Science
Composition I KCKCC	English	1.0	Yes	Yes	11-12	See description in English Language Arts
Composition II KCKCC	English	1.0	Yes	Yes	11-12	See description in English Language Arts
Database Management KCKCC	ELECTIVE	1.0	Yes	No	11-12	Available as part of the Tech Impact Program
French 1 KCKCC	World Lang	1.0	Yes	No	11-12	See description in World Languages
French 2 KCKCC	World Lang	1.0	Yes	No	11-12	See description in World Languages
Human Anatomy & Lab KCKCC	Science	1.0	Yes	No	11-12	See description in Science
Introduction Criminal Justice KCKCC	ELECTIVE	1.0	Yes	No	11-12	See description in Social Studies
Introduction to Biotechnology KCKCC	Science	1.0	Yes	No	11-12	Available as part of the Bio+ program – see description Special Programs
Introduction to Exercise Science KCKCC	Science	1.0	Yes	No	11-12	See description in Science
Introduction to Literature KCKCC	English	1.0	Yes	Yes	11-12	See description in English Language Arts
Manufacturing Technician Training KCKCC	Science	1.0	Yes	No	11-12	Available as part of the Bio+ program – see description Special Programs
Physics KCKCC	Science	1.0	Yes	No	11-12	See description in Science
Pre-calculus KCKCC	Math	1.0	Yes	Yes	11-12	See description in Math
Principles of Cell/Molecular Biology KCKCC	Science	1.0	Yes	No	11-12	Available as part of the Bio+ program – see description Special Programs
Psychology KCKCC	ELECTIVE	1.0	Yes	Yes	11-12	See description in Social Studies
Public Speaking KCKCC	ELECTIVE	1.0	Yes	No	11-12	See description in English Language Arts
Sociology KCKCC	ELECTIVE	1.0	Yes	Yes	11-12	See description in Social Studies
Spanish 1 KCKCC	World Lang	1.0	Yes	No	11-12	See description in World Languages
Spanish 2 KCKCC	World Lang	1.0	Yes	No	11-12	See description in World Languages
Statistics KCKCC	Math	1.0	Yes	No	11-12	See description in Math
Survey of Biomanufacturing KCKCC	Science	1.0	Yes	No	11-12	Available as part of the Bio+ program – see description Special Programs
Technology and Instrumentation Biomanufacturing KCKCC	Science	1.0	Yes	No	11-12	Available as part of the Bio+ program – see description Special Programs
Trigonometry KCKCC	Math	1.0	Yes	No	11-12	See description in Math
US History Since 1877 KCKCC	Soc St	1.0	Yes	No	11-12	See description in Social Studies

**Introduction Criminal Justice KCKCC**

Course #: 04114035  
Credit: 1.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

This is the high school course for KCKCC CRJS-0101 - Introduction to Criminal Justice, 3 credit hours KCKCC Description: This course provides an in-depth look at policy issues related to policing, courts, and corrections. It gives the student the opportunity to focus on difficult issues including the links between police, politics, law, corrections and the administration of Justice. This course will review changes in law and police practices, preparation for prosecution, the court system, and finally the link between prisons and probation. Pre-requisites: Accuplacer Reading score 240+. (Rev. Feb 2020; <https://www.kckcc.edu/files/docs/academics/catalog/2018-2019/course-descriptions.pdf>)

## TEC – High School

Students at F. L. Schlagle, J. C. Harmon, Washington, & Wyandotte can begin work on a post-secondary certificate through KCKCC's Technical Education Center while still in high school. Most programs are one half-day and transportation is provided from the school to TEC. Students may begin as early as grade 11 and some programs require finishing after high school graduation.

### Available Programs:

<b>Automotive Collision Repair</b>	<b>High School Credit: 2.0 per semester</b>	<b>High School Credit Type: ELECTIVE</b>
TOTAL COLLEGE CREDITS IN PROGRAM: 52		
College Credits earned <b>STARTING 11<sup>th</sup> grade:</b> 38	College Credits earned <b>STARTING 12<sup>th</sup> grade:</b> 17	
College Credits <b>remaining in program AFTER graduation:</b> 14	College Credits <b>remaining in program AFTER graduation:</b> 35	

Automotive Collision Repair is designed to give the student the extensive practical experience and technical knowledge needed by the skilled automotive repair technician. Straightening bent frames, removing dents from fenders and body panels, welding broken metal, replacing damaged parts, and refinishing auto bodies are all part of the course. (7:30-10:35 or 11:20-2:15)

<b>Automotive Technology</b>	<b>High School Credit: 2.0 per semester</b>	<b>High School Credit Type: ELECTIVE</b>
TOTAL COLLEGE CREDITS IN PROGRAM: 51		
College Credits earned <b>STARTING 11<sup>th</sup> grade:</b> 42	College Credits earned <b>STARTING 12<sup>th</sup> grade:</b> 21	
College Credits <b>remaining in program AFTER graduation:</b> 9	College Credits <b>remaining in program AFTER graduation:</b> 30	

Automotive mechanics work on cars and other vehicles when there is a need for repair or maintenance. Students encounter the technology that makes up the field as they work on mock-up engines, test engines, or their own vehicles. To give students practical experience, service operations are conducted in a professional shop atmosphere using late model automobiles.

<b>Building Engineering &amp; Maintenance Technology</b>	<b>High School Credit: 2.0 per semester</b>	<b>High School Credit Type: ELECTIVE</b>
TOTAL COLLEGE CREDITS IN PROGRAM: 44		
College Credits earned <b>STARTING 11<sup>th</sup> grade:</b> 44	College Credits earned <b>STARTING 12<sup>th</sup> grade:</b> 20	
College Credits <b>remaining in program AFTER graduation:</b> 0	College Credits <b>remaining in program AFTER graduation:</b> 24	

This course includes classroom instruction and extensive hands-on experience in the fundamentals require to maintain commercial property and apartments. Students may also choose to concentrate on home remodeling or general landscaping. Custodial and basic appliance repair are also available.

<b>Commercial &amp; Residential Equipment Technician</b>	<b>High School Credit: 2.0 per semester</b>	<b>High School Credit Type: ELECTIVE</b>
TOTAL COLLEGE CREDITS IN PROGRAM: 44		
College Credits earned <b>STARTING 11<sup>th</sup> grade:</b> 44	College Credits earned <b>STARTING 12<sup>th</sup> grade:</b> 23	
College Credits <b>remaining in program AFTER graduation:</b> 0	College Credits <b>remaining in program AFTER graduation:</b> 21	

The Major Appliance Technology program prepares for the entry level positions working on major in-home appliance and commercial restaurant equipment repair. Enrollees get detailed instruction on refrigerators, ranges, dishwashers, washing machines, dryers, wall ovens, microwaves and kitchen ventilation.

<b>Computer Aided Drafting</b>	<b>High School Credit: 2.0 per semester</b>	<b>High School Credit Type: ELECTIVE</b>
TOTAL COLLEGE CREDITS IN PROGRAM: 40		
College Credits earned <b>STARTING 11<sup>th</sup> grade:</b> 37	College Credits earned <b>STARTING 12<sup>th</sup> grade:</b> 17	
College Credits <b>remaining in program AFTER graduation:</b> 3	College Credits <b>remaining in program AFTER graduation:</b> 23	

All courses within the Drafting Program are designed to meet the needs of the students who take them and provide them with the knowledge, ability, skills, and the critical thinking (deductive reasoning) they will need to enter the modern marketplace. Designed to prepare students for a variety of drafting and design positions in business, industry, and government, this program provides instruction in drafting techniques, procedures, processes, standards, and the care and use of tools and special instruments of the trade. CAD techniques utilizing Windows are emphasized in each course.

<b>Computer Support Specialist</b>	<b>High School Credit: 2.0 per semester</b>	<b>High School Credit Type: ELECTIVE</b>
TOTAL COLLEGE CREDITS IN PROGRAM: 43		
College Credits earned <b>STARTING 11<sup>th</sup> grade:</b> 43	College Credits earned <b>STARTING 12<sup>th</sup> grade:</b> 21	
College Credits <b>remaining in program AFTER graduation:</b> 0	College Credits <b>remaining in program AFTER graduation:</b> 22	

This course prepares students for careers as computer repair technicians who maintain, upgrade and install personal computers or other computerized equipment. Program completers are qualified to take the A+ Certification test to become a Certified PC Technician. (7:30-10:35 or 11:20-2:15)

<b>Construction Technology</b>	<b>High School Credit: 2.0 per semester</b>	<b>High School Credit Type: ELECTIVE</b>
TOTAL COLLEGE CREDITS IN PROGRAM: 48		

College Credits earned <b>STARTING 11<sup>th</sup> grade:</b> 41	College Credits earned <b>STARTING 12<sup>th</sup> grade:</b> 23
College Credits <b>remaining in program AFTER graduation:</b> 7	College Credits <b>remaining in program AFTER graduation:</b> 25

Plumbers, electricians, masons, and carpenters help fill the ranks of what is known as the building trades. This course prepares the student to enter one of these fields at the apprenticeship level. The major project for the course is the construction of a house from the foundation work to the finishing touches. Professional craftsmen often take part in the instruction and allow students to do supervised work. (7:30-10:35 or 11:20-2:15)

<b>Cosmetology</b>	<b>High School Credit: 3.0 per semester</b>	<b>High School Credit Type: ELECTIVE</b>
TOTAL COLLEGE CREDITS IN PROGRAM: 50		

College Credits earned <b>STARTING 12<sup>th</sup> grade:</b> 31
College Credits <b>remaining in program AFTER graduation:</b> 19

This program is rigidly developed and prepares students for the State Board of Cosmetology examination required before a graduate can become a licensed cosmetologist. Post-secondary students must be a high school graduate or have a GED. Students must purchase uniforms, textbook, and cosmetology kit and pay an apprentice license fee. A State Board fee is required upon completion of the program. (9:30-3:00)

<b>Culinary Arts</b>	<b>High School Credit: 2.0 per semester</b>	<b>High School Credit Type: ELECTIVE</b>
TOTAL COLLEGE CREDITS IN PROGRAM: 40		

College Credits earned <b>STARTING 11<sup>th</sup> grade:</b> 40	College Credits earned <b>STARTING 12<sup>th</sup> grade:</b> 20
College Credits <b>remaining in program AFTER graduation:</b> 0	College Credits <b>remaining in program AFTER graduation:</b> 20

This program teaches students to master the fundamental skills of food service in preparation for positions in hotels, restaurants, cafeterias, hospitals, nursing homes, catering, etc. The program contains daily classroom instruction with practical work experience in the operation of the school cafeteria and food service preparation for the child care center, public meetings, and banquets. (7:30-10:35 or 11:20-2:15)

<b>Cybersecurity</b>	<b>High School Credit: 2.0 per semester</b>	<b>High School Credit Type: ELECTIVE</b>
TOTAL COLLEGE CREDITS IN PROGRAM: 28		

College Credits earned <b>STARTING 11<sup>th</sup> grade:</b> 28	College Credits earned <b>STARTING 12<sup>th</sup> grade:</b> 28
College Credits <b>remaining in program AFTER graduation:</b> 0	College Credits <b>remaining in program AFTER graduation:</b> 0

The Associate in Science in Cybersecurity prepares students with the entry-level knowledge needed to protect cyberspace against physical and cyber threats. This degree is designed to enable students to easily transfer to a college or university offering a bachelor's degree in cybersecurity.

<b>Electrical Technology</b>	<b>High School Credit: 2.0 per semester</b>	<b>High School Credit Type: ELECTIVE</b>
TOTAL COLLEGE CREDITS IN PROGRAM: 44		

College Credits earned <b>STARTING 11<sup>th</sup> grade:</b> 37	College Credits earned <b>STARTING 12<sup>th</sup> grade:</b> 18
College Credits <b>remaining in program AFTER graduation:</b> 7	College Credits <b>remaining in program AFTER graduation:</b> 26

The Electrical Technology program develops basic electrical skills, technical knowledge and related occupational information to prepare for initial employment in the electrical trade. Students will begin with basic fundamentals of electricity and progress through all types of residential, commercial and industrial wiring.

<b>Health Careers</b>	<b>High School Credit: 2.0 per semester</b>	<b>High School Credit Type: ELECTIVE</b>
TOTAL COLLEGE CREDITS IN PROGRAM: 7		

College Credits earned <b>STARTING 11<sup>th</sup> grade:</b> 7	College Credits earned <b>STARTING 12<sup>th</sup> grade:</b> 7
College Credits <b>remaining in program AFTER graduation:</b> 0	College Credits <b>remaining in program AFTER graduation:</b> 0

This program prepares students to become a state-certified CNA and provides direct patient care. Health Careers is a one semester course. Students may enroll in either first or second semester. Students must provide uniforms for clinical experience.

<b>Heating &amp; Refrigeration</b>	<b>High School Credit: 2.0 per semester</b>	<b>High School Credit Type: ELECTIVE</b>
TOTAL COLLEGE CREDITS IN PROGRAM: 44		

College Credits earned <b>STARTING 11<sup>th</sup> grade:</b> 35	College Credits earned <b>STARTING 12<sup>th</sup> grade:</b> 20
College Credits <b>remaining in program AFTER graduation:</b> 9	College Credits <b>remaining in program AFTER graduation:</b> 24

This program provides instruction in installing and maintaining heating and cooling systems comprises the heating, ventilation, and air-conditioning (HVAC) technician's world. Fundamentals are emphasized, along with specific studies in central and room systems. Silver



soldering techniques and trouble-shooting procedures are practiced. The program is approved for EPA refrigerant certification. (7:30-10:35 or 11:20-2:15)

<b>Machine Technology</b>	<b>High School Credit: 2.0 per semester</b>	<b>High School Credit Type: ELECTIVE</b>
TOTAL COLLEGE CREDITS IN PROGRAM: 48		

College Credits earned <b>STARTING 11<sup>th</sup> grade:</b> 36	College Credits earned <b>STARTING 12<sup>th</sup> grade:</b> 24
College Credits <b>remaining in program AFTER graduation:</b> 12	College Credits <b>remaining in program AFTER graduation:</b> 24

Industry provides many jobs for machinists who operate machine tools that grasp metal and form specific products through cutting, drilling, and grinding machines. The student is allowed to progress at his or her own pace while learning all the machinists' skills to select the proper tools and materials for each job, plan the project according to blueprints or written specifications, and then form the metal product while holding accuracies to thousandths of an inch. (7:30-10:35 or 11:20-2:15)

<b>Medical Assistant</b>	<b>High School Credit: 2.0 per semester</b>	<b>High School Credit Type: ELECTIVE</b>
TOTAL COLLEGE CREDITS IN PROGRAM: 38		

College Credits earned <b>STARTING 11<sup>th</sup> grade:</b> 34	College Credits earned <b>STARTING 12<sup>th</sup> grade:</b> 17
College Credits <b>remaining in program AFTER graduation:</b> 4	College Credits <b>remaining in program AFTER graduation:</b> 21

The Medical Assistant program is designed to prepare students for entry-level positions in a medical facility. Clinical functions include taking vital signs and patient histories; assisting with exams, treatments, and office surgery; collecting specimens; sterilization procedures; basic first aid; and CPR. Administrative functions include scheduling and receiving patients; obtaining and maintaining patient data; completing insurance forms; arranging for hospital admission, billing, and collection; etc. Upon completion of the classroom portion of the program, students complete a 180 hour non-paid clinical experience (externship) in a medical office.

<b>Multimedia</b>	<b>High School Credit: 2.0 per semester</b>	<b>High School Credit Type: ELECTIVE</b>
TOTAL COLLEGE CREDITS IN PROGRAM: 30		

College Credits earned <b>STARTING 11<sup>th</sup> grade:</b> 30	College Credits earned <b>STARTING 12<sup>th</sup> grade:</b> 19
College Credits <b>remaining in program AFTER graduation:</b> 0	College Credits <b>remaining in program AFTER graduation:</b> 11

The Video and Multimedia Production program prepares students for careers in computer-based video production, traditional video production fields and Web Page creation. Students who have a flair or interest in graphic design, photography, illustration and internet production will learn to operate advanced equipment to create their own video production. (7:30-10:35 or 11:20-2:15)

<b>Nail Technology</b>	<b>High School Credit: 2.0 per semester</b>	<b>High School Credit Type: ELECTIVE</b>
TOTAL COLLEGE CREDITS IN PROGRAM: 16		

College Credits earned <b>STARTING 11<sup>th</sup> grade:</b> 16	College Credits earned <b>STARTING 12<sup>th</sup> grade:</b> 16
College Credits <b>remaining in program AFTER graduation:</b> 0	College Credits <b>remaining in program AFTER graduation:</b> 0

This program is designed to prepare individuals to become licensed nail technologists providing manicures, pedicures, acrylic nail enhancements, nail wraps, gel nails, and nail art. The curriculum includes both theory and practical application by training through a student-operated salon. Upon completion of the program, students are eligible to take the state licensing examination. Reading score of 60 or higher on the Accuplacer required for admittance. (rev. Feb. 2020)

<b>Office Assistant</b>	<b>High School Credit: 2.0 per semester</b>	<b>High School Credit Type: ELECTIVE</b>
TOTAL COLLEGE CREDITS IN PROGRAM: 18		

College Credits earned <b>STARTING 11<sup>th</sup> grade:</b> 18	College Credits earned <b>STARTING 12<sup>th</sup> grade:</b> 18
College Credits <b>remaining in program AFTER graduation:</b> 0	College Credits <b>remaining in program AFTER graduation:</b> 0

The Office Assistant program is designed to prepare students for the basic and routine jobs that are part of the office worker's world of work. Office workers support the many other functions that operate within a business. (7:30-10:35 or 11:20-2:15)

<b>Power Plant Technology</b>	<b>High School Credit: 2.0 per semester</b>	<b>High School Credit Type: ELECTIVE</b>
TOTAL COLLEGE CREDITS IN PROGRAM:		

College Credits earned <b>STARTING 11<sup>th</sup> grade:</b>	College Credits earned <b>STARTING 12<sup>th</sup> grade:</b>
College Credits <b>remaining in program AFTER graduation:</b>	College Credits <b>remaining in program AFTER graduation:</b>

The Power Plant technical certificate program, which contains technical courses, is a two semester, one-year program. Students will calculate and transpose metric and Si units of measure. Knowledge of basic electrical laws, power sources and circuits, along with power plant system configuration and operation, and corrosion chemistry and pH are part of the study for this certificate. Students will also gain practical experience of power production methods and use hand and power tools safely and efficiently.

<b>Welding Technology</b>	<b>High School Credit: 2.0 per semester</b>	<b>High School Credit Type: ELECTIVE</b>
TOTAL COLLEGE CREDITS IN PROGRAM: 40		

College Credits earned <b>STARTING 11<sup>th</sup> grade:</b> 40	College Credits earned <b>STARTING 12<sup>th</sup> grade:</b> 20
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College Credits remaining in program **AFTER** graduation: 0

College Credits remaining in program **AFTER** graduation: 20

Welding students learn the processes of cutting and joining metals by heat, pressure, or both, as well as the cutting of metal by gas and arc processes. With extensive hands-on experience, students are prepared to enter welding positions at the apprentice level. (7:30-10:35 or 11:20-2:15)

## Special Programs

### K-STEP Up

High school students with an interest in being an educator can join the K-STEP Up program. This program has specialized events and support, along with KCKCC course in high school to earn college credits towards an education degree. Transfer to K-State's online program as a college junior to complete a degree, including student teaching in KCKPS as a college senior. In addition to enrolling in the general education KCKCC classes, these four courses are featured as part of the K-STEP Up program:

<b>Introduction to Teaching: Career Awareness KCKCC</b>	<b>High School Credit: 1.0</b>	<b>High School Credit Type: ELECTIVE</b>
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TOTAL COLLEGE CREDITS IN PROGRAM: 3

The goal of the course is increase awareness of self in relation to the roles of teachers and other K-12 teaching professionals. Career opportunities in education are considered, with an emphasis on what it means to be a professional teacher in today's high stakes environment of education. This course provides a well-rounded view of the teaching profession. Field experience is an important component of the course. It consists of twelve practical observation hours at school elementary, middle and secondary levels. These practicum hours may also include interactions with practicing school professionals. Discussion in the course will attempt to connect the foundations of education to field experience. Pre-requisites: Accuplacer Reading score 240+

<b>Children's Literature KCKCC</b>	<b>High School Credit: 1.0</b>	<b>High School Credit Type: ELECTIVE</b>
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TOTAL COLLEGE CREDITS IN PROGRAM: 3

Students will identify children's needs and interests, learn the criteria for choosing books for children, and demonstrate the means by which children and books can be brought together. Students will read, examine, and critique a variety of children's literature selected by author, genre, and historical time period. Pre-requisites: Accuplacer Reading score 240+

<b>Study Children &amp; Adolescents in the Schools KCKCC</b>	<b>High School Credit: 1.0</b>	<b>High School Credit Type: ELECTIVE</b>
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TOTAL COLLEGE CREDITS IN PROGRAM: 3

The course is an introduction to the psychological study of children and adolescents and their behavior in the school setting. Emphasis is placed on techniques of observing children and adolescents and methods to describe classroom engagement based on four domains of development: physical, cognitive, social, and emotional. Twelve hours of observations in various classroom settings is requires. Pre-requisites: Accuplacer Reading score 240+

<b>Education in Multicultural Society KCKCC</b>	<b>High School Credit: 1.0</b>	<b>High School Credit Type: ELECTIVE</b>
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TOTAL COLLEGE CREDITS IN PROGRAM: 3

This class encourages an approach to teaching and learning that is based on cultural pluralism and an interdependent world. It promotes the concept of equal access and educational excellence among all children and youth. Students are introduced to the integration of multicultural perspectives into traditional curriculum and methods of instruction. The content of this class focuses on the social constructions of class, ethnicity, gender, and culture. Pre-requisites: Accuplacer Reading score of 240+

## Bio+

The Bio+ program is a full year, half day program combining foundational science knowledge with advanced laboratory skills and professional practices. Students are prepared to enter college as a STEM major and/or take an entry level position in the bioscience manufacturing facilities where aseptic techniques and biosafety concerns are needed (e.g., animal health, medical, or food packaging). The curriculum includes both theory and practical application by training in biomanufacturing and science laboratories. Upon completion of the program, students are eligible to take the MT1 certification exam, which has been adopted by the KC Animal Health Corridor.

**Introduction to Biotechnology KCKCC**      **High School Credit: 1.0**      **High School Credit Type: ELECTIVE**

TOTAL COLLEGE CREDITS IN PROGRAM: 2

This is the high school course for KCKCC BIOL-0105 - Introduction to Biotechnology, 2 credit hours KCKCC Description: Introduction to Biotechnology is designed to give students an understanding of the foundational scientific principles and applications of the biotechnology. Students will focus on pharmaceutical, agricultural, medical, genomic and forensic applications of biotechnological methods and will deepen their understanding of biotechnology-related career fields in the process. Students will also explore the history of biotechnology, the regulatory methods used by industry, and the ethical issues raised by this application of science. Pre-requisites: Accuplacer Reading score 240+ Part of the year-long Bio+ program for KCKPS high school students. Rev. Feb 2020; (<https://www.kkcc.edu/files/docs/academics/catalog/2018-2019/course-descriptions.pdf>)

**Manufacturing Technician Training KCKCC**      **High School Credit: 1.0**      **High School Credit Type: ELECTIVE**

TOTAL COLLEGE CREDITS IN PROGRAM: 3

This is the high school course for KCKCC BMFR-0145 - Manufacturing Technician Training, 3 credit hours KCKCC Description: The Manufacturing Technician Training course will provide students an understanding of industrial Lean manufacturing, Safety, and some of the physics of behind machines. These include levers, pulley systems, hydraulics, and electricity. Students will also learn to interpret two dimensional drawings into three dimensional structures. Pre-requisites: Accuplacer Reading score 240+. Part of the year-long Bio+ program for KCKPS high school students. (Rev. Feb 2020; <https://www.kkcc.edu/files/docs/academics/catalog/2018-2019/course-descriptions.pdf>)

**Principles of Cell and Molecular Biology KCKCC**      **High School Credit: 1.0**      **High School Credit Type: ELECTIVE**

TOTAL COLLEGE CREDITS IN PROGRAM: 4

This is the high school course for KCKCC BIOL-0135 - Principles of Cell and Molecular Biology, 4 credit hours KCKCC Description: This is an integrated lecture and laboratory course for biology majors and students planning to take additional courses in biology. This class introduces the fundamental biological principles characteristic of all living things. Since the cell is the basic unit of life, this course will focus on life at the cellular and molecular levels. Subjects covered include basic biochemistry, cell anatomy and physiology, bioenergetics, genetics and evolution. Emphasis will be placed on learning the process skills and equipment associated with being a biologist. Pre-requisites: Accuplacer Reading score 240+. Part of the year-long Bio+ program for KCKPS high school students. (Rev. Feb 2020; <https://www.kkcc.edu/files/docs/academics/catalog/2018-2019/course-descriptions.pdf>)

**Survey of Biomanufacturing KCKCC**      **High School Credit: 1.0**      **High School Credit Type: ELECTIVE**

TOTAL COLLEGE CREDITS IN PROGRAM: 3

This is the high school course for KCKCC BMFR-0100 - Survey of Biomanufacturing, 3 credit hours KCKCC Description: This survey course provides students with basic training on the field of biomanufacturing production. Students are introduced to an understanding of the career opportunities and basic technical skills required in high-demand, high-skill careers in bio-manufacturing. This course will include an introduction to the local Life Science industry and related career opportunities and employment requirements; the basic math and technical skills required of an entry-level position; and basic knowledge of documentation, safety, and bioprocess requirements in a biomanufacturing facility. Upon completion of this course, the students will earn an OSHA-10 Safety card. Pre-requisites: Accuplacer Reading score 240+. Part of the year-long Bio+ program for KCKPS high school students. (Rev. Feb 2020; <https://www.kkcc.edu/files/docs/academics/catalog/2018-2019/course-descriptions.pdf>)

**Techniques and Instrumentation for Biomanufacturing KCKCC**      **High School Credit: 1.0**      **High School Credit Type: ELECTIVE**

TOTAL COLLEGE CREDITS IN PROGRAM: 4

This is the high school course for KCKCC BMFR-0146 - Techniques and Instrumentation for Biomanufacturing, 3 credit hours KCKCC Description: The Techniques and Instrumentation course provides students with exposure to various instruments. Students will learn the importance of equipment maintenance and calibration of pipette, pH meters, and balances. They will be able to maintain and use different types of centrifuges and their applications, cell culture incubator, bioreactor, HPLC, and gel systems. Students will also learn about safety, good

documentation practices, and practice aseptic techniques. Pre-requisites: Accuplacer Reading score 240+. Part of the year-long Bio+ program for KCKPS high school students. (Rev. Feb 2020; <https://www.kckcc.edu/files/docs/academics/catalog/2018-2019/course-descriptions.pdf>)

## Tech Impact

Students in grades 11 and 12 who are interested in an Information Technology career may apply to enroll in Tech Impact. In the first semester of the program, students work alongside professionals at Cerner, a health care IT company, and complete the course Database Management KCKCC. Students then apply for an internship for second semester. Second semester projects range from client interactions to server management tasks as part of a Cerner Scholar Internship. While exact projects vary over time, each provides opportunities to build professional and technical skills. Students who complete the program in grade 11 may apply to participate for an additional two semesters in grade 12.

### Database Management KCKCC

High School Credit: **1.0**

High School Credit Type: **ELECTIVE**

TOTAL COLLEGE CREDITS IN PROGRAM: 3

Database Management explores a "user" directed computer language. The software is used to perform tasks that once required hours of coding and logic development. Topics and projects include planning, building, modifying, maintaining, and using a database, sorting and indexing a file. Keyboarding skills are beneficial. (KCKCC Course CIST-0236).

### Tech Impact 1

Course #: 22111012  
Credit: 2.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

Tech Impact 1 is a hands-on, real-world experience. Students will experience hands-on, active learning with full immersion in real-world projects sponsored by business partners such as Cerner Corporation. Students work in multi-disciplinary teams to provide innovative solutions to a company's real-world problems. Technology projects are tailored to student interest in the fields of health information software/computer technology. Tech Impact 2 is an onsite class that focuses on collaboration, employability skills and technical skills in preparation for on the job training experience second semester.

### Tech Impact 2

Course #: 22111014  
Credit: 2.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

Tech Impact 2 is a hands-on, real-world experience. Students will experience hands-on, active learning with full immersion in real-world projects sponsored by business partners such as Cerner Corporation. Students work in multi-disciplinary teams to provide innovative solutions to a company's real-world problems. Technology projects are tailored to student interest in the fields of health information software/computer technology. Tech Impact 2 involves students working on company teams where they are an integral part of their daily function.

### Tech Impact 3

Course #: 22121012  
Credit: 2.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

Tech Impact 3 is a hands-on, real-world experience. Students will lead the students in Tech Impact 1 in hands-on, active learning with full immersion in real-world projects sponsored by business partners such as Cerner Corporation. Students will learn leadership and team management skills as they guide students as they work in multi-disciplinary teams to provide innovative solutions to a company's real-world problems. Technology projects are tailored to student interest in the fields of health information software/computer technology. Tech Impact 2 is an onsite class that focuses on collaboration, employability skills and technical skills in preparation for on the job training experience second semester.

### Tech Impact 4

Course #: 22121014  
Credit: 2.0

Credit Type: **ELECTIVE**  
Grade Level: 11-12

Tech Impact 4 will continue the hands-on, real-world experience they began in Tech Impact 2. Students will experience hands-on, active learning with full immersion in real-world projects sponsored by business partners such as Cerner Corporation. Students work in multi-disciplinary teams to provide innovative solutions to a company's real-world problems. Technology projects are tailored to student interest in the fields of health information software/computer technology. Tech Impact 2 involves students working on company teams where they are an integral part of their daily function.

