

# HIGH SCHOOL

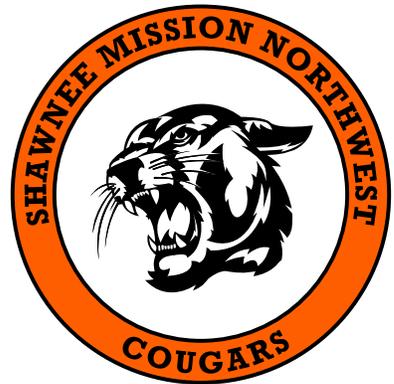
## Program of Studies



2018-2019



# SHAWNEE MISSION SCHOOL DISTRICT HIGH SCHOOLS





# SHAWNEE MISSION

## SCHOOL DISTRICT

Dear Students and Parents:

We are excited to provide the 2018-2019 Shawnee Mission School District High School Program of Studies to serve as a guide for our students and their families during the development of our students' individual plans of study. The information within this document explains the educational opportunities provided through our comprehensive learning model found within our high schools, the Center for Academic Achievement (CAA), and the Project Blue Eagle Public Safety Academy. The program of studies has been prepared so that students may plan their course requests for next year. A complete listing and brief description of all courses offered in grades 9-12 is provided. Information about graduation requirements, eligibility requirements, grading policies, prerequisites for courses, and other topics are included in the document as well. The counselors at each high school will distribute specialized enrollment materials.

As a member of the high school learning community, students have an opportunity to choose from a number of curricular options and to participate in a variety of activities. The more involved students become in school; the more meaning school will have for them. Students obtain more from their educational experiences if their choices reflect their personal needs, interests, and talents. Please select carefully the courses which offer the greatest opportunity for learning and career goals.

If you have questions regarding any information in the High School Program of Studies, be sure to contact your school counselor.

Best wishes for a successful, well-planned, and rewarding 2018-2019 school year!

Sincerely,

Dr. Kenny Southwick  
Interim Superintendent



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## SHAWNEE MISSION

### HIGH SCHOOL PROGRAM OF STUDIES OVERVIEW

#### SHAWNEE MISSION SCHOOL DISTRICT COURSE OFFERINGS

This High School Program of Studies is designed to give you the information that will help you and your parents to make appropriate selections as you plan a course of study from the wide variety of offerings found in the Shawnee Mission School District. Each course is described and specific prerequisites are listed so that you will know whether or not you qualify to take a given subject. Prerequisite means you have successfully completed the entry requirements by either taking a listed course or receiving teacher recommendation because of prior experience in the field of study.

The Shawnee Mission School District offers a comprehensive program of studies for students in grades nine through twelve.

Courses designated as “enrollment based” are scheduled if there is sufficient enrollment to provide staffing for the course.

It is important that these decisions be made carefully with personal objectives and future goals in mind. Your teachers and counselors are available to help you in this process.

In addition to describing the courses offered, the guide provides information about graduation requirements, grades, credit, eligibility requirements, and recommended college and career preparatory programs.

#### SHAWNEE MISSION SCHOOL DISTRICT COURSE LOCATIONS

SCHOOL	ADDRESS	PHONE
Shawnee Mission East	7500 Mission Rd Shawnee Mission, KS 66208	913-993-6600
Shawnee Mission North	7401 Johnson Drive Shawnee Mission, KS 66202	913-993-6900
Shawnee Mission Northwest	12701 W. 67th St Shawnee Mission, KS 66207	913-993-7200
Shawnee Mission South	5801 W. 107th St Shawnee Mission, KS 66216	913-993-7500
Shawnee Mission West	8800 West 85th St Shawnee Mission, KS 66212	913-993-7800
Horizons	5900 Lamar Shawnee Mission, KS 66202	913-993-9500
Career and Technical Campus (CTC) New home of Project Blue Eagle	11475 W 93rd St Shawnee Mission, KS 66214	913-993-8500
Center for Academic Achievement (CAA)	8200 W. 71st St Shawnee Mission, KS 66204	913-993-6200

## SHAWNEE MISSION

### GRADUATION REQUIREMENTS

#### DISTRICT GRADUATION REQUIREMENTS

Students graduating in the class of 2019 must earn a minimum of 23 units of credit in grades 9-12. For students graduating in 2020 and beyond, 23.5 units of credit in grades 9-12 will be required. (See Board Policy IHF).

The Shawnee Mission School District high school graduation requirements are designed to be completed in eight semesters. A candidate for graduation from this district must have been in attendance in the district during the last semester of his or her senior year. While it is possible to meet the graduation requirements in less than eight semesters, early graduation is not the intent of the district. It is strongly recommended that all students attend the full eight semesters.

#### UNITS OF CREDIT

A unit of credit represents the equivalent of a year's work with a passing grade. A full-year course receives one unit of credit per period. A semester course receives a half unit of credit per period. Select courses offered at the Center for Academic Achievement (CAA) and Career and Technical Campus (CTC) may earn one unit of credit per semester based on a double-block class time schedule.

#### CLASSIFICATION OF STUDENTS

Students attain grade level classification according to the number of course units earned and the number of years completed at the high school level in grades 9-12. Students are classified after the completion of the summer school session.

GRADE LEVEL	CLASS OF 2019 MINIMUM CREDITS EARNED	CLASS OF 2020 AND BEYOND MINIMUM CREDITS EARNED
Grade 9	0.00	0.00
Grade 10	5.50	5.50
Grade 11	11.00	11.50
Grade 12*	16.00	16.50

\*Students may be reclassified after first semester to grade 12 if they have attended at least 7 semesters in grades 9-12 and have earned 18.50 credits.

#### INDIVIDUAL PLAN OF STUDY

Early planning by each student toward a Four-Year Individual Plan of Study is very important. In planning what courses to take, the student must be continually aware of the need to fulfill the requirements for graduation. Students are also encouraged to investigate, with their counselors and/or parents, the requirements of the specific college or university they may wish to enter, taking that information into consideration in designing their Four-Year Individual Plan of Study. Counselors are a vital resource in this planning process. Counselors can provide an important service in helping students evaluate their interests, abilities, and goals. They assist students in planning a program of selected courses that will best contribute to the fulfillment of their college and career goals. Each student with the aid of the family and counselor will build their own individual plan of study. Plans include interest inventories, surveys to identify college and career interests, a resume, and a four-year plan for each student's course of study. Students update these plans periodically, and we encourage parents and students to reference this information during the enrollment planning process.

# SHAWNEE MISSION

## GRADUATION REQUIREMENTS

Courses	SMSD Class of 2019 Graduation Requirements	SMSD Class of 2020 and beyond Graduation Requirements	Kansas Regents Qualified Admissions Curriculum <a href="http://www.kansasregents.org/qualified-admissions">http://www.kansasregents.org/qualified-admissions</a>	Kansas Scholars Curriculum <a href="http://www.kansasregents.org/students/student-financial-aid/kansas-scholars-curriculum">http://www.kansasregents.org/students/student-financial-aid/kansas-scholars-curriculum</a>
<b>ENGLISH LANGUAGE ARTS</b>  ELA 1 (English 9) 1.0 unit ELA 2 (English 10) 1.0 unit ELA 3 (English 11) 1.0 unit ELA 4 (English 12) 1.0 unit	4 units	4 units	4 units SMSD graduation requirements fulfill the minimum requirement in this subject area.	4 units SMSD graduation requirements fulfill the minimum requirement in this subject area.
<b>SOCIAL STUDIES</b>  World Regional Studies 1.0 unit United States History 1.0 unit American Government .5 unit Social Studies Elective .5 unit	3 units	3 units	3 units SMSD graduation requirements fulfill the minimum requirement in this subject area.	3 units SMSD graduation requirements fulfill the minimum requirement in this subject area.
<b>MATHEMATICS</b> Math Courses	3 units	3 units	3 or 4 units 3 units (taken grades 9-12): Algebra I, Geometry, Algebra II, any course w/ Algebra II as a prerequisite AND Math ACT score of 22  4 units (taken grades 9-12): Algebra I, Geometry, Algebra II, any course w/ Algebra II as a prerequisite	4 approved units Algebra I*, Geometry, Algebra II AND one unit advanced mathematics (suggested courses include: Algebra 3, Calculus) *Completion of Algebra I in 8th grade is acceptable for the Kansas Scholars Curriculum, but not for Qualified Admissions.
<b>SCIENCE</b>  1 unit must be a laboratory science. To include 1 unit of Biological Science and 1 unit of Physical Science	3 units	3 units	3 units 1 credit must be Chemistry or Physics	3 units Biology Chemistry Physics A fourth year of science is recommended
<b>PHYSICAL EDUCATION</b>  Foundations of PE .5 unit Physical Education .5 unit Citizenship/Leadership Development NS 1.0 unit	1 unit	1 unit		
<b>WORLD LANGUAGE</b>				2 units of one World Language
<b>HEALTH</b>	0.5 unit	0.5 unit		
<b>FINE ARTS</b>	1 unit	1 unit		
<b>FINANCIAL LITERACY</b>	N/A	0.5 units		
<b>TOTAL REQUIRED UNITS</b>	<b>15.5 units</b>	<b>16 units</b>		
<b>ELECTIVE UNITS</b>	<b>7.5 units</b>	<b>7.5 units</b>		
<b>GRADUATION REQUIREMENT TOTAL</b>	<b>23 units</b>	<b>23.5 units</b>		

# SHAWNEE MISSION

## GRADUATION REQUIREMENTS

### MINIMUM GRADUATION REQUIREMENTS PLAN OF STUDY

The Shawnee Mission School District encourages its students to take a rigorous high school curriculum in order to prepare them for college and career. The four-year plan of study listed below is the minimum students must take (and pass) in order to graduate.

Grade 9	
ELA 1 (English 9)	1 unit
World Regional Studies	1 unit
Mathematics	1 unit
Science (Biology)	1 unit
Health	½ unit
Foundations of Physical Education	½ unit
Elective	2 units

Grade 10	
ELA 2 (English10)	1 unit
Mathematics	1 unit
Science	1 unit
Physical Education	½ unit
Electives	2½ units
Fine Arts	1 unit

Grade 11	
ELA 3 (English 11)	1 unit
United States History	1 unit
Mathematics	1 unit
Science	1 unit
Electives	2½ units
Financial Literacy, Class of 2020*	½ unit

Grade 12	
ELA 4 (English 12)	1 unit
American Government	½ unit
Social Studies Elective**	½ unit
Electives	5 units

\* Graduation requirement for class of 2020 & beyond

\*\*The social studies elective listed in grade 12 may be taken earlier.

### FINE ARTS GRADUATION REQUIREMENT

The following is a list of courses that may be applied toward the minimum fine arts graduation requirement.

<p style="text-align: center;"><b><u>Visual Arts</u></b></p> <p>Credit in all visual art courses may apply toward the fine arts credit.</p> <p style="text-align: center;"><b><u>Business</u></b></p> <p>Digital Design Digital Design Studio Game Design and Development Web Design</p> <p style="text-align: center;"><b><u>Family and Consumer Science</u></b></p> <p>Commercial Baking 1 &amp; 2 Culinary Arts 1 &amp; 2 Fashion Merchandising Foods, Advanced Food, International Interior Design Fashion, Apparel Interior Design Studio Fashion, Apparel Interior Design Essentials</p>	<p style="text-align: center;"><b><u>Industrial Technology</u></b></p> <p>Computer-Aided Manufacturing Design 1, Computer-Aided Architectural Design 2, Computer-Aided Architectural Design, Computer-Aided Industrial Design, Introduction to Computer-Aided Introduction to Engineering Design Welding 1 &amp; 2 Wood Design and Fabrication Wood Design 2</p> <p style="text-align: center;"><b><u>Center for Academic Achievement</u></b></p> <p>Commercial Baking 1 &amp; 2 Culinary Arts 1 &amp; 2 Game Design and Development 2D Animation 1 &amp; 2 3D Modeling and Animation 1 &amp; 2</p> <p style="text-align: center;"><b><u>Engineering-Project Lead the Way</u></b></p> <p>Introduction to Engineering Design</p>	<p style="text-align: center;"><b><u>English Language Arts</u></b></p> <p>Actor's Studio Competitive Speech and Drama, Beginning and Advanced Digital News Media Production Digital Photo Media Digital Yearbook Production Drama Repertory Theatre Repertory Theatre, Advanced Technical Theater Video Production Advanced</p> <p style="text-align: center;"><b><u>Performing Arts</u></b></p> <p>Credit in all performing arts courses may apply toward the fine arts credit.</p> <p style="text-align: center;"><b><u>Physical Education</u></b></p> <p>Dance</p> <p style="text-align: center;"><b><u>IB Programs</u></b></p> <p>IB Dance IB Film Studies SL IB Film Studies HL</p>
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## SHAWNEE MISSION

### GRADUATION REQUIREMENTS

**CREDIT ATTAINMENT-** Students may obtain credit through the following:

#### **ACHIEVED CREDIT**

The student receives credit based on the successful completion of an established course. Unless otherwise indicated in the course description, courses may only be taken once for credit. If a student passes a course with a grade of D, the student may appeal to the building principal for the opportunity to repeat the course. Both grades earned will be posted to the student's transcript and calculated in the GPA; however, no additional credit is earned.

#### **ASSIGNED CREDIT**

The student receives credit based on the approval of the building principal or the principal's designee for prior work completed at a non-accredited institution or home school. In order to assign proper credit, students must provide transcripts from previous schools. If no official transcript is available, the family will provide a typed transcript of previously completed coursework. This transcript will include, the name of the course, the grade earned, a list of all instructional resources used including title, author, publisher, and copyright date, or other supporting documentation of academic work. If a student transfers from a non-accredited private school to a Shawnee Mission high school, the district high school is not required to accept the transfer of credit.

Such approval may be given upon the recommendation of the appropriate division coordinator after examination of the course content and alignment as well as the student's performance. Credit may also be assigned for the successful completion of courses taken prior to the ninth grade if the courses have equivalent content and rigor. Approval of such coursework must be given by the principal prior to taking the course. These credits are entered on the high school transcript at the time of admission to the ninth grade. Such credit may be used to meet the district's graduation requirement. Courses offered in 8th grade and in high school may be awarded high school credit if taken prior to the 9th grade. Specific courses offered for high school credit are designated in the Middle School Program of Studies approved on an annual basis by the board.

Credit for a sequential course may be assigned retroactively following successful completion (60% or better) of the next level course in that curricular area. The original grade earned will be recorded on the transcript. Validation may occur at semester with administrator approval.

If a student is not enrolled in a sequential course that can be validated through the procedure described above, competency (60% or better) must be demonstrated by passing a departmental exam for each course. If the student meets competency, the original grade earned will be recorded on the transcript.

Only courses for which there is a Shawnee Mission equivalent will be considered for validation. Honor grade points may be validated if the following criteria are met:

1. There is an equivalent Shawnee Mission honors or advanced placement course.
2. The honors or advanced placement designation is noted on the official transcript from an accredited institution.
3. A grade of A or B was earned.

#### **CREDIT BY EXAMINATION**

A student may earn credits towards high school graduation by demonstrating mastery of the course outcomes through a performance instrument. The standards for designing and passing the performance instrument shall be set sufficiently high to ensure credits earned by such a means shall be equivalent to those offered in the framework of the Carnegie unit. This performance instrument must be reviewed and approved by the district curriculum department. Credit for such classes shall be awarded only on a pass/fail basis with the student earning at least 80% on the performance instrument.

Given the requisite approval, a student may undertake the credit by examination process for a specific course only once. Students may not receive honors credit through credit by examination. The credit by examination procedure must be completed prior to the student taking the course during the regular school term.

## SHAWNEE MISSION

### GRADUATION REQUIREMENTS

#### **CREDIT FOR OUT-OF-DISTRICT CORRESPONDENCE COURSES AND OUT-OF-DISTRICT VIRTUAL COURSES**

The student receives credit based on successful completion of out-of-district courses by correspondence or through out-of-district virtual courses from accredited institutions.

#### **FINAL EXAMS**

Comprehensive semester examinations will be given in all high school courses. Each student's examination grade will represent a portion (but not more than 20%) of the semester grade. Any student enrolled in an Advanced Placement (AP) course or International Baccalaureate (IB) course may be exempt from the final examination based on the following criteria:

##### **AP/IB Final Exam Exemption**

Any student enrolled in AP or IB courses may be exempt from second semester final exams if they take the AP or IB exam for that course. Students must fully participate in the respective AP or IB exam to qualify for the exemption. Any student taking both the AP exam and the dual college credit option will be required to take the final exam *if that final exam is a requirement* of the college or university for the given course.

Any student taking both the AP exam and the dual college credit option, and the college or university *does not require a final exam*, the student may opt out of the Shawnee Mission School District teacher-generated final exam per the exemption guidelines.

If the student is not taking the AP exam, then the student will take the required final exam, whether from the college/university or from the Shawnee Mission School District teacher.

**SHAWNEE MISSION**  
ACADEMIC GRADES OR MARKS

All academic grades shall be determined solely by student achievement of clearly stated instructional expectations. Possible grades or marks are defined as follows:

- A Superior Work-** 90% - 100%
- B Above Average Work-** 80% - 89%
- C Average Work-** 70% - 79%
- D Below Average Work-** 60% - 69%
- F Failing-** Student has not progressed far enough to receive a passing grade. The student’s parents or guardian must be notified prior to an F being given.
- E Excused-** Course waiver based on unusual circumstance as granted by the building principal.
- I Incomplete-** Only those students who have been excusably absent and need additional time to complete missed work should be given an incomplete grade at the grading periods.
- N No Credit-** Student has not done sufficient work to receive a passing grade. Credit lost due to not meeting minimum attendance requirements will be marked N for all grades of A, B, C, and D. Students who have an F will be given an F.
- P Passing-** Credit for an academic course (with administrator’s approval). This may be given for homebound course work upon mutual agreement between the teacher and student.
- Q Competency-** Competency Testing out of a class.
- NG No Grade-** Used for study hall when wanting to report attendance and/or comments.
- WP No Credit-** Student withdraws from a course with a passing grade.
- WF No Credit-** Student withdraws from a course with a failing grade.

**GRADE POINT AVERAGE (GPA)**

Grade point averages are computed regularly in grades 9-12 and are based on the final semester grade earned in each course. Grade points for all credit courses, other than honors or advanced placement courses, shall be computed as follows:

**A = 4 points    B = 3 points    C = 2 points    D = 1 point    F = 0 points**

**HONOR ROLL**

Shawnee Mission recognizes academic excellence by placing students on one of two honor rolls:

**3.0 Honor Roll**, a student must have a GPA (grade point average) of 3.0 for a minimum of 2.5 credits per semester. The grades of “A,” “B,” “C,” “D,” and “F” will be used to calculate the GPA. Grades of “Q,” “P,” “E,” “NG,” “WP,” or “WF” are not used in the GPA computation formula. A grade of “N,” “D,” “F” or “I” will eliminate the student from being named to the Honor Roll.

**Principal’s Honor Roll**, a student must have a GPA (grade point average) of 4.0 or above and be enrolled in a minimum of 2.5 credits per semester. The grades of “A,” “B,” “C,” “D,” and “F” will be used to calculate the GPA. Grades of “Q,” “P,” “E,” “NG,” “WP” or “WF” are not used in the GPA computation formula. A grade of “N,” “C,” “D,” “F,” or “I” will eliminate the student from being named to the Principal’s Honor Roll. Students who earn all “A’s” will have special designation by an asterisk on any information distributed to the public.

## SHAWNEE MISSION

ACADEMIC GRADES OR MARKS

### CALCULATING GRADE POINT AVERAGE

The traditional method for computing a student's grade point average is to divide the total number of academic grade points earned by the total number of course units. To encourage students to take more rigorous courses, Shawnee Mission enhances this method by awarding extra credit for taking honors courses and for taking additional courses beyond the minimum required. The formula for the Shawnee Mission GPA is as follows:

$$\text{GPA} = \frac{[(\text{Student Course Units} - \text{Minimum Course Units}) \times \text{Factor}] + \text{Grade Points}}{\text{Student Course Units}}$$

The **minimum** number of units a student should accumulate to remain on the recommended pace for graduation:

Grade 9	Semester 1	2.875 units	Semester 2	5.750 units
Grade 10	Semester 1	8.625 units	Semester 2	11.500 units
Grade 11	Semester 1	14.375 units	Semester 2	17.250 units
Grade 12	Semester 1	20.125 units	Semester 2	23.000 units

#### Factor

This figure is calculated based on the total regular and honors courses offered and the required graduation units. The factor is 0.86.

#### Total Grade Points

Use the chart below to calculate the Total Grade Points Earned. Chart on the right is a sample to assist you in the process. The sample is for a student in grade 11 after completion of semester 1. The student has earned 6 A's and 29 B's. This translates into 3 credits in A's and 14.5 credits in B's assuming each course is 0.5 credits. This calculation is shown in the left table. The right table is for your student individual calculations.

Letter Grade*	Credits**	Points Per Letter Grade	Points Earned = (Credits x Points)
A (honors course)		x 5.0	
A (regular course)	3	x 4.0	12
B (honors course)		x 4.0	
B (regular course)	14.5	x 3.0	43.5
C (all courses)		x 2.0	
D (all courses)		x 1.0	
F (all courses)		x 0.0	
<b>TOTAL</b>	<b>17.5</b>		<b>55.5</b>

Letter Grade*	Credits**	Points Per Letter Grade	Points Earned = (Credits x Points)
A (honors course)		x 5.0	
A (regular course)		x 4.0	
B (honors course)		x 4.0	
B (regular course)		x 3.0	
C (all courses)		x 2.0	
D (all courses)		x 1.0	
F (all courses)		x 0.0	
<b>TOTAL</b>			

$$\frac{[(17.5 - 14.375) \times 0.86] + 55.5}{17.5} = 3.325$$

\* Courses that are awarded other letters such as P, Q, or NG are not used in the GPA formula. Hence, total credits in the GPA formula may be different from total credits earned toward graduation.

\*\* For most courses, one semester is 0.5 credits. However, a small number of courses have other credit values such as 0.25 or 1.0. Read your grade history carefully to confirm the number of credits for each course.

# SHAWNEE MISSION

## PLANNING

### COLLEGE & CAREER – SAMPLE PLANS OF STUDY

The Shawnee Mission School District encourages students to take a rigorous high school curriculum in order to prepare them for college and career. The four-year schedules listed below illustrate two sample high school plans of study. Students should make schedule decisions based on district graduation requirements, college and career plans, and personal preference.

#### COLLEGE & CAREER READY PLANS OF STUDY - SAMPLE 1

Grade 9	
ELA 1*** (English 9)	1 unit
World Regional Studies***	1 unit
Mathematics*** (Algebra or Geometry)	1 unit
Science*** (Biology)	1 unit
Health	½ unit
Foundations of Physical Education	½ unit
Career Pathways Electives	2 units

Grade 10	
ELA 2*** (English10)	1 unit
Modern World History***	1 unit
Mathematics*** (Geometry or Algebra 2)	1 unit
Science***(Physical Science, Chemistry, or Physics)	1 unit
Physical Education	½ unit
Career Pathways Electives	2½ units

Grade 11	
ELA 3*** (English 11)	1 unit
United States History***	1 unit
Mathematics*** (Algebra 2)	1 unit
Science*** (Chemistry, Physics, or Biology 2)	1 unit
Career Pathways Electives	2½ units
Financial Literacy, Class of 2020**	½ unit

Grade 12	
ELA 4*** (English 12)	1 unit
American Government***	½ unit
Math*** (beyond Algebra 2)	1 unit
Science*** (if three units have not been taken previously)	1 unit
Career Pathways Electives	2½ units
Fine Arts	1 unit

\*\*Graduation requirement for class of 2020 & beyond

\*\*\*Students are encouraged to consider rigorous course options that could include honors or Advanced Placement (AP) when applicable.

#### COLLEGE & CAREER READY PLANS OF STUDY - SAMPLE 2

Grade 9	
ELA 1*** (English 9)	1 unit
World Regional Studies***	1 unit
Mathematics*** (Algebra or Geometry)	1 unit
Science*** (Biology)	1 unit
Health	½ unit
Foundations of Physical Education	½ unit
Career Pathways Electives	2 units
World Language*	1 unit

Grade 10	
ELA 2*** (English10)	1 unit
AP European History***	½ unit
Mathematics*** (Geometry or Algebra 2)	1 unit
Science***(Chemistry or Physics)	1 unit
Physical Education	½ unit
Career Pathways Electives	2½ units
World Language*	1 unit

Grade 11	
ELA 3*** (English 11)	1 unit
United States History***	1 unit
Mathematics*** (Algebra 2, College Algebra/Trig)	1 unit
Science*** (Chemistry, Physics, or Biology 2)	1 unit
Career Pathways Electives	1½ units
Financial Literacy, Class of 2020**	½ unit
World Language*	1 unit

Grade 12	
ELA 4*** (English 12)	1 unit
American Government***	½ unit
Math*** (beyond Algebra 2)	1 unit
Science*** (if three units have not been taken previously)	1 unit
Career Pathways Electives	2½ units
Fine Arts	1 unit

\* World Language is not required for graduation, or for admission to a Kansas Board of Regents university; however, many colleges and universities require or recommend it for admission.

\*\*Graduation requirement for class of 2020 & beyond

\*\*\*Students are encouraged to consider rigorous course options that could include honors or Advanced Placement (AP) when applicable.

## SHAWNEE MISSION

CONSIDERATIONS FOR COLLEGE

### ADVANCED PLACEMENT (AP), INTERNATIONAL BACCALAUREATE (IB), AND HONORS (H) GRADE POINT COURSES

Taking challenging classes in high school is a great way to build new skills. Challenging courses take students to a deeper level of study in high school and help prepare students for the level of work required in college.

Honors and Advanced Placement courses are offered at all high school grade levels for students who have a strong interest in course content, a desire for greater rigor, and the motivation and commitment to accept the challenge of an advanced course.

Honors classes cover similar material as regular classes but at a faster pace and at a deeper level than regular classes.

The College Board's Advanced Placement (AP) courses offer college-level classes that help students develop and apply skills such as reading critically, solving problems analytically and writing clearly.

International Baccalaureate is a program that develops the intellectual, personal, emotional and social skills needed to live, learn and work in a rapidly globalizing world. This program is offered at the following Shawnee Mission High Schools, East, North and Northwest.

Honor grade points are only offered for Shawnee Mission high school courses or for transfer courses that meet the validation criteria. Grade points for certain advanced courses, which are designated with an (H) or (AP), shall be computed as follows:

**A = 5 points, B = 4 points, C = 2 points, D = 1 point, F = 0 points**

<b>Art</b>	
Studio Art H/AP	7632, 7633
IB Visual Arts SL (H), HL1 (H), HL2 (H)	7641, 7642, 7643
IB Visual Arts SL 2 (H)	7644
<b>World Languages</b>	
Arabic 4 H	5306
Chinese 4 H	5332
French 5 AP	5064
IB French 5 SL (H)	5068
IB French 5 HL (H)	5062
French 6 H	5063
IB French 6 SL (H)	5069
IB French 6 HL (H)	5070
IB German 3 HL	5108
German 4 H	5111
IB German 4 SL (H)	5119
Japanese 4 H	5406
IB Latin 3 HL	5137
Latin 4 H	5145
Latin 4 AP	5150
IB Latin 4 SL (H)	5152
IB Latin 4 HL (H)	5140
Russian 4 H	5432

Spanish 5 AP	5214
IB Spanish 5 SL (H)	5223
IB Spanish 5 HL (H)	5225
Spanish 6 H	5213
IB Spanish 6 SL (H)	5224
IB Spanish 6 HL (H)	5226
<b>Language Arts</b>	
ELA 1H English 9 H	1088
ELA 2H English 10 H	1144
AP English language and Composition	1152, 1153
English 11 H/IB	1155, 1156
AP English Literature and Composition	1629, 1630
English 12 H/IB	1632, 1633
Debate, Advanced H - Fall	1434
Legal Studies Research and Writing H	3316
World Literature H	3513
<b>Mathematics</b>	
Algebra 2 H	2064
Calculus BC H/AP	2159, 2162
Calculus AB H/AP	2158, 2161
Calculus 3H	2202

## SHAWNEE MISSION

CONSIDERATIONS FOR COLLEGE

Computer Science A H/AP	2095, 2096
Computer Science Principles (CSP)	2216

<b>Art</b>	
Studio Art H/AP	7632, 7633
IB Visual Arts SL (H), HL1 (H), HL2 (H)	7641, 7642, 7643
IB Visual Arts SL 2 (H)	7644
<b>World Languages</b>	
Arabic 4 H	5306
Chinese 4 H	5332
French 5 AP	5064
IB French 5 SL (H)	5068
IB French 5 HL (H)	5062
French 6 H	5063
IB French 6 SL (H)	5069
IB French 6 HL (H)	5070
IB German 3 HL	5108
German 4 H	5111
IB German 4 SL (H)	5119
Japanese 4 H	5406
IB Latin 3 HL	5137
Latin 4 H	5145
Latin 4 AP	5150
IB Latin 4 SL (H)	5152
IB Latin 4 HL (H)	5140
Russian 4 H	5432
Spanish 5 AP	5214
IB Spanish 5 SL (H)	5223
IB Spanish 5 HL (H)	5225
Spanish 6 H	5213
IB Spanish 6 SL (H)	5224
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Calculus 3H	2202
Computer Science A H/AP	2095, 2096
Computer Science Principles (CSP)	2216

## SHAWNEE MISSION

### CONSIDERATIONS FOR COLLEGE

#### SELECTIVE COLLEGE ADMISSIONS

Those students anticipating enrollment in highly selective private or public colleges or universities should investigate the specific requirements of those colleges or universities and make appropriate course and activity selections.

#### COLLEGE BOARD

The College Board (the governing board for AP courses, SAT, and PSAT) recommends that college-bound students take five solid academic courses per semester, including a study of the arts. This study could include visual arts, drama, dance, or music. Many colleges require or recommend one or two semesters in the arts.

#### KANSAS BOARD OF REGENTS - QUALIFIED ADMISSIONS

The Kansas Board of Regents has established a qualified admissions program for the six Kansas Board of Regents Institutions (Emporia State University, Fort Hays State University, Kansas State University, Pittsburg State University, University of Kansas\* and Wichita State University). For a complete list of courses and admission standards, visit <http://www.kansasregents>.

#### Graduates **MUST** meet the following requirements in order to gain admission:

1. Achieve one of the following: Score a composite of 21 on the ACT; or an SAT score of 980 or above; or Graduate in the top 1/3 of your graduating class (during the 7th or 8th semester)

#### **AND**

2. Earn at least a 2.0 GPA on a 4.0 scale in the Qualified Admissions Curriculum

- 4 credits in English
- 3 credits in natural science (one credit must be Chemistry or Physics)
- 3 approved credits in math with the ACT math benchmark 22 or 4 approved math credits
- 3 credits social science
- 3 additional approved units

#### **AND**

3. Achieve a 2.0 GPA or higher on any college credit taken in high school (if applicable)

\*The University of Kansas has additional requirements for admission as a freshman. See their website ([www.ku.edu](http://www.ku.edu)) for more details.

#### KANSAS SCHOLARS CURRICULUM and Eligibility for Kansas State Scholarship

State scholarship applicants will be designated as a State Scholar during their senior year of high school.

To be designated, a student must have taken the ACT by the end of December of senior year and complete the Kansas Scholars curriculum which includes:

1. 4 years of English
2. 4 years of math (Algebra 1, Geometry, Algebra 2, and 1 unit of advanced math)
3. 3 years of science (biology, chemistry, and physics)
4. 3 years of social studies
5. 2 years of world language

Designation is based on an index combining the ACT composite score and GPA. Applicants must complete the FAFSA.

**Awards are based on financial need.** See: <http://www.kansasregents.org> for more information.

## SHAWNEE MISSION

CONSIDERATIONS FOR COLLEGE

### CONCURRENT CREDIT

Shawnee Mission high school students may have the opportunity to take academic courses in high school, which have been identified by the district, **Johnson County Community College (JCCC), and Baker University** as concurrent credit courses. Upon payment of specified tuition and fees and upon successful completion of the courses, bona fide college credit can be earned. Only students admitted to designated college courses can apply for this special dual credit option. **JCCC College Now and Baker University** enrollment materials are distributed in the appropriate high school courses during the first 3 weeks of each semester. Courses proposed for JCCC College Now and Baker credit are found in the lower charts. Not all of these courses will be available for college credit at each high school. **Please refer to your building counseling department for a list of current and anticipated course offerings.**

JCCC COURSE TITLE	CREDIT HOURS	SHAWNEE MISSION COURSE TITLE
Basic Video Production	3	Video Production Advanced
Composition I	3	AP English Language and Composition
Composition II	3	AP English Language and Composition
Chemistry I	5	Chemistry 2 H or 2AP Sem 1 & 2
US History to 1877	3	US History AP Sem 1
US History since 1877	3	US History AP Sem 2
Economics I	3	Macroeconomics H/AP
Economics II	3	Microeconomics H/AP
Calculus I	5	Calculus AB AP Sem 1 & 2, Calculus BC AP Sem 1
Calculus II	5	Calculus BC AP Sem 2
Precalculus	5	Precalculus H
American National Government	3	United States Govt. & Politics AP Sem 1 & 2
Basic Programming Structures	4	Computer Science A AP Structures
Concepts of Programming Algorithms	4	Computer Science Principles (CSP)
Principles of Cell and Molecular Biology	4	Biology 2 H or 2 AP Sem 1 & 2
Environmental Science	3	Environmental Systems H/AP
Statistics	3	Statistics AP & Statistics H
General Physics I	5	Physics I H Sem 1 & 2
Intro to Psychology	3	Psychology AP Sem 1 & 2
Spanish I	5	Spanish 4 Sem 1
Spanish II	5	Spanish 4 Sem 2
Intermediate Spanish I	3	Spanish 5 H/AP Sem 1 & 2 IB Spanish 5 SL (H)
French I	5	French 4 Sem 1
French II	5	French 4 Sem 2
Intermediate French I	3	French 5 H/AP Sem 1 & 2 IB Spanish 5 SL (H)
German I	5	German 4 H Sem 1 IB German 4 HL (H) Sem 1
German II	5	German 4 H Sem 2 IB German 4 HL (H) Sem 1
Latin I	3	Latin 4 H/AP, Sem 1
Latin II	3	Latin 4 H/AP, Sem 2

## SHAWNEE MISSION

CONSIDERATIONS FOR COLLEGE

BAKER COURSE TITLE	CREDIT HOURS	SHAWNEE MISSION COURSE TITLE
Intro to Molecular & Cellular Biology	4	Biology 2 AP
Principles of Economics, Macro	3	Macroeconomics AP
Principles of Economics, Micro	3	Microeconomics AP
History of the U.S. to 1877	3	Semester 1 U.S. History AP
History of the U. S. Since 1877	3	Semester 2 U. S. History AP
Intro to American Politics	3	U.S. Government and Politics AP
General Psychology	3	Psychology AP
Intro to Education	2	*Teacher Education 1 or 2 and Teacher Internship
Education Field Practicum	1	*Teacher Education 1 or 2 and Teacher Internship
* Students taking Teacher Education 1 or 2 and Teacher Internship concurrently will earn 3 credit hours from Baker.		

JCCC and Baker University will charge an amount not to exceed that charged to any student as tuition for enrolling in similar campus-based courses. No additional charge beyond those authorized for high school rental fees and materials used for classroom activities will be made. Tuition is subject to change.

### PREREQUISITE FOR JCCC COURSES

Students enrolled in JCCC College Now must meet all the JCCC prerequisites for college enrollment. Consult your school counselor for more information regarding the enrollment prerequisites. As an additional resource, please refer to this website for more information.

<http://www.jccc.edu/admissions/high-school/college-now/index.html>

### COLLEGE CAMPUS STUDY

Shawnee Mission high school juniors and seniors may, with approval at their home high school, enroll in courses in local colleges and universities or a technical program at an accredited post-secondary school in alignment with their Individual Plan of Study. The costs associated with enrolling in a post-secondary institution is the responsibility of the student. Some community colleges are able to waive tuition for tiered career technical courses as covered by the Excel in CTE program (formerly known as SB 155) such as outlined by JCCC:

<http://www.jccc.edu/admissions/high-school/sb-155.html>

Students will submit a College Campus Study Student/Parent Application form, available in the counseling office that will be reviewed by their counselor and the school administration. In addition, the student must complete a college Transcript Release; this form allows the college to release the student's grades to their high school. Students enrolling in a college campus study course will have the college course transcribed for SMSD high school credit upon district receipt of the college transcript.

Students may enroll in courses for a time that is equivalent to a maximum of three course periods at the high school level, including travel time. A request for a course beyond the three period equivalent must be approved by the building principal or their designee.

Please note that the district is not responsible for accidents that might occur while traveling to or from while participating in College Campus Study. For a complete description of College Campus Study, please ask your counselor for a College Campus Study packet, which includes all of the forms necessary for participation in the program.

### COLLEGE NIGHTS

The district offers two college planning programs each fall. In addition, a college clinic in the district gives parents and students an opportunity to visit with representatives from more than 250 post-secondary institutions at SM East. The financial aid program provides in-depth information on financial assistance for college, including the FAFSA. The location of the financial aid program will be determined annually and publicized accordingly.

## SHAWNEE MISSION CAREER PATHWAYS

### CAREER PATHWAYS

Career Pathways offer high school elective courses in a range of subjects and career fields for students to explore. Career Pathways are an important component to improve students' college and career readiness. Tomorrow's jobs will require additional knowledge, improved skills and highly flexible workers who continually update their knowledge and skills. The ability to explore and prepare for these career pathways is in high school. The SMSD Career Pathways include:

- Journalism & Video Production
- Business Management & Entrepreneurship
- Construction & Design
- Engineering & Applied Mathematics
- Health Science
- Law, Fire & Public Safety
- Manufacturing
- Marketing
- Mobile Equipment Maintenance
- Programming & Software Development
- Restaurant & Event Management
- Teaching/Training
- Visual Arts
- Web & Digital Communications

For more information about Career Pathways, please visit: <https://smsdcte.weebly.com/smsd-cte-pathways.html>

### CAREER PATHWAYS PARTNERSHIP

Career Pathways Advanced Standing Credit is a program that articulates high school classes to JCCC credit at no cost to the student. As part of Career Pathways, instructors from participating high schools and Johnson County Community College align their curricula so students can begin a career path in high school and earn advanced standing credit in a college career program. Instruction is provided on high school campuses. After enrolling and paying fees to JCCC for college coursework in any field, a student may apply to receive the advanced standing credit for eligible high school courses. Please go to: <http://www.jccc.edu/admissions/high-school/career-pathways/index.html> to find the most current list of articulated classes. The credit is subject to the following guidelines:

#### Student Responsibilities:

- An application for admission to JCCC and a final high school transcript must be on file with the JCCC Admissions Office.
- Students must be currently enrolled or have completed at least one JCCC credit course in order to receive the credit.
- Beginning fall 2014, students may apply for Advanced Standing Credit for up to two (2) years after their high school graduation.

#### JCCC Responsibilities:

- The credit will be posted on the JCCC official transcript as Advanced Standing Credit by the Records Office.
- The grade will be posted as "P" on the JCCC official transcript.
- Credits may not apply toward the JCCC residency requirement for graduation.
- Students may earn a maximum of 30 hours of credit through nontraditional means.
- There is no expectation/guarantee of transferability of these courses. Transferability of these credits is determined by each college or university.

## SHAWNEE MISSION

### CAREER PATHWAYS

#### SIGNATURE PROGRAMS

Shawnee Mission Signature Programs provide high school students the opportunity to explore unique areas of study in preparation for specialized academic and future career opportunities. Students participating in signature programs receive targeted instruction that is both rigorous and relevant. These specialized programs reflect our district's commitment to providing quality educational opportunities that will enable students to be successful in 21st century careers and advanced studies. In the majority of programs listed below, introductory courses are offered (unless noted in the program of studies course information) at each of the respective high schools with advanced coursework offered at the Center for Academic Achievement (CAA) and Career and Technical Center (CTC).

Biotechnology	CAA
Game Design and Development	CAA
Engineering – Project Lead the Way	CAA and High Schools
International Baccalaureate	SM East, SM North, SM Northwest
Medical Health Science	CAA
Project Blue Eagle	CTC

## SHAWNEE MISSION

ADDITIONAL INFORMATION

### ATHLETICS: NATIONAL COLLEGIATE ATHLETIC ASSOCIATION (NCAA)

Before a student is eligible to participate in college athletics at the NCAA Division I or Division II level, the NCAA Eligibility Center must certify the student. Part of that certification process includes making sure that the student has successfully taken the required number of core courses. The required number of core courses is listed below. For further requirements to be deemed eligible contact the Guidance Office.

### CORE UNITS REQUIRED FOR NCAA CERTIFICATION

CORE UNITS	DIVISION I	DIVISION II
English core	4 units	3 units
Mathematics core	3 units	2 units
Science core	2 units	2 units
Social Studies core	2 units	2 units
From English, Math, or Science Additional Core (English, Math, Science, Social Science, Foreign Language, Computer Science, Philosophy, Non-doctrinal Religion)	4 units	3 units
<b>TOTAL CORE UNITS REQUIRED</b>	<b>16 units</b>	<b>16 units</b>

Be sure to look at your high school's list of NCAA-approved core courses on the Eligibility Center's website to make certain that courses being taken have been approved as core courses. The website is [www.eligibilitycenter.org](http://www.eligibilitycenter.org).

For college-bound student athletes entering NCAA Division I college or university on or after August 1, 2016:

- NCAA will require 10 core courses to be completed prior to the seventh semester (beginning of the senior year).
- Seven of the 10 core courses must be a combination of English, math or natural or physical science.
- These 10 courses become "locked in" at the start of the seventh semester and cannot be retaken for grade improvement.
- Have a minimum core-course GPA of 2.3.

For college-bound student athletes entering NCAA Division II college or university on or after August 1, 2016:

- Must have a minimum core-course GPA of 2.0.

### NAIA Eligibility

The NAIA Eligibility Center is responsible for determining the NAIA eligibility of first-time student-athletes. Any student playing NAIA sports for the first time is required to meet the eligibility requirements. Students must have their eligibility determined by the NAIA Eligibility Center and all NAIA schools are bound by the center's decisions. Students may obtain an NAIA Eligibility Center decision by meeting the following requirements:

#### **Students who have completed their junior year of high school:**

Test Score – Achieve a minimum of 16 on the ACT or 860 on the SAT

GPA – Achieve a minimum overall high school GPA of 3.0 on a 4.0 scale

#### **Students who are midway through their senior year (completed 7th semester):**

Test Score – Achieve a minimum of 16 on the ACT or 860 on the SAT

GPA – Achieve a minimum overall high school GPA of 2.5 on a 4.0 scale

#### **Students who have graduated must meet two out of the three following requirements:**

Test Scores – Achieve a minimum of 16 on the ACT or 860 on the SAT

GPA – Achieve a minimum overall high school GPA of 2.0 on a 4.0 scale

Class Rank – Graduate in the top half of high school class

## SHAWNEE MISSION

### ADDITIONAL INFORMATION

**Reminder:** Test scores must be sent directly from the testing service, not via transcript. Students must request for their test scores to be sent to the NAIA Eligibility Center at the testing services' website by using the NAIA Eligibility Center test code: 9876. Students who qualify for a fee waiver must have their counselors approve the fee waiver online through the NAIA High School Portal. For more information, please visit [www.playnaia.org](http://www.playnaia.org).

### SPECIAL SERVICES

Shawnee Mission High schools provide individual programming for students eligible to receive special education services. The district offers a continuum of service options ranging from collaboration in the general education classroom to direct services provided in special education classrooms. Individualized services and programming are provided as determined by a student's Individualized Education Program (IEP) Team. Placement in these programs/services is by Special Education action only. For information regarding special education services, contact your high school administrator or the Special Services Office at 913-993-8600. For additional information please see the district website at <http://specialed.smsd.org/Pages/default.aspx>.

### HEALTH INFORMATION

The Shawnee Mission School District complies with Kansas health law which is as follows: A student entering a Kansas school for the first time must present a printed copy of their immunizations from a doctor's office, health department, or school previously attended. The document must show that the student has received all immunizations required by Kansas law appropriate for the student's age. Per Kansas law, the student must have received a minimum of one inoculation of each required immunization in order to attend school. If this minimum school entry requirement is met, and even though the student's immunization record is incomplete, a student is allowed to attend school as long as he/she is receiving the required immunizations on the prescribed time schedule. If the student does not comply, the student would be excluded from school each time he/she failed to receive the follow-up immunizations as scheduled by the physician or health department. Transfer students must show immunization records or a statement from the school previously attended which shows compliance with state requirements. Under regulations prescribed by law, families may use alternative procedures to meet immunization requirements. Information about alternative procedures can be obtained from the school nurse.

The parent or guardian must complete the Health History and Permit form for a student entering a Shawnee Mission school for the first time and each year at enrollment.

Additional information about the district health guidelines includes:

1. By law, students who fail to complete the appropriate requirements may be excluded from attending school.
2. Students who become ill at school should report to the school nurse; and upon notification of parents, if leaving school, sign out in the office.
3. By district policy, all medications must be dispensed from the nurse's office during the school day. Medication must be in the original, properly labeled container. School nurses, by law, cannot accept or distribute medications from any other type of container, such as a plastic bag. The medication must be accompanied by a note from the parent/guardian giving instructions about dosage, reason for administering, time to be given, how long the medication should be administered at school, and if there are any side effects of which the nurse should be aware. The permission forms are available from the school nurse or on the district health services web page. Students may not carry prescriptions or non-prescription medications with them at school with the exception of life saving medications. However, these medications may be carried only with written permission from parents or guardian and physician and with collaboration with the school nurse.

### POLICY AND PROCEDURES FOR TRANSFER

It is the policy of this school district that a student shall be required to attend the school designated for the attendance area in which the student resides. However, under exceptional circumstances, a student may be permitted to transfer to a school outside of the student's attendance area. For more information on the policy regarding intra-district choice/open enrollment, see your school principal. The policy is also found on the district's website at [www.smsd.org](http://www.smsd.org) (see policy JBC and/or JBCB).

## SHAWNEE MISSION

### ADDITIONAL INFORMATION

#### **LIBRARY**

Students have the use of a library in each high school. The libraries are open before, during, and after school. Librarians teach research strategies in the library during scheduled classes. Students have access to the collection in their school library and have interlibrary loan privileges for items in our Shawnee Mission school library collections. On-line databases of periodicals are available for student use both in school and at home from the district web page.

#### **SUMMER SCHOOL**

For questions about summer school programming and course offerings please refer to the Shawnee Mission School District website or the following link:

[www.smsd.org/parents/summer.htm](http://www.smsd.org/parents/summer.htm)

#### **HORIZONS**

The district provides a high school alternative education program for those students who are struggling or have not been successful in the traditional high school setting. SMSD students wishing to attend Horizons High School must initiate their request at their current comprehensive high school through their counselor or social worker. Horizons has the unique ability to offer daycare for infants and toddlers of current SMSD students on a space-available basis. Students on suspension or expulsion are not eligible to enroll and attend Horizons High School until those periods of suspension have been completed.

#### **COURSE ADDITIONS AND WITHDRAWAL**

No courses may be added after the first day of the semester. Schedule change deadlines will be established by each building's administration. If withdrawal is completed by the end of the first 15 days of a semester, no record will appear on the transcript. If withdrawal occurs after the first 15 days of the semester, the record will show the course and a notation of withdrawal will be made.

WP - withdrawn, passing grade. No credit

WF - withdrawn, failing grade. No credit

Students may not withdraw from a course during the last three weeks of a semester.

#### **NUMBERS FOR GENERAL COURSES**

Courses designated as General are used to facilitate enrollment for students transferring into the Shawnee Mission School District with courses for which there are no district equivalents.

Business, General	TR6274
Computer, General	TR2246
Computer Applications	TR6136
ELL, General	TR1791
Family & Consumer Sciences, General	TR6535
Fine Arts, Art	TR7740
Fine Arts, Music	TR7325
Health, General	TR9220
Industrial Technology, General	TR6925
English Language Arts, ELA 1 (English 9)	TR1082
English Language Arts, ELA 2 (English 10)	TR1140
English Language Arts, ELA 3 (English 11)	TR1150
English Language Arts, ELA 4 (English 12)	TR1160
English Language Arts, General	TR1785
Mathematics, General	TR2255
Physical Education, General	TR8032
Religion, General (non-credit)	TR3405
Science, Biology	TR4130
Science, Chemistry	TR4170
Science, Physical	TR4128
Science, General	TR4340
Social Studies, American Government	TR3190
Social Studies, US History	TR3160
Social Studies, World Geography	TR3396
Social Studies, General	TR3400
Technical Education, General	TR6983
World Language, General	TR5250

## SHAWNEE MISSION

### COURSE COSTS

**ADVANCED PLACEMENT EXAMINATIONS:** Course cost for the advanced placement examination is determined annually by the College Board.

#### ART

7611	Art, Independent Study	Cost will vary depending on student's emphasis.
7603	Art Portfolio Preparation	*Minimum course cost is \$40.00.
7670	Ceramics	*Minimum course cost is \$30.00.
7698	Digital Photo - Art	*Minimum course cost is \$35.00.
7645	Drawing	*Minimum course cost is \$25.00.
7649	Drawing 2	*Minimum course cost is \$25.00.
7627	Graphic Design - Art	*Minimum course cost is \$15.00.
7536	Introduction to Studio Art	*Minimum course cost is \$20.00.
7683	Jewelry/Sculpture Studio	*Minimum course cost is \$40.00.
7650	Painting	*Minimum course cost is \$35.00.
7696	Photography 1	*Minimum course cost is \$35.00.
7632, 7633, 7635	Studio Art AP	Cost varies according to student's media concentration.

\*Additional fees may be assessed based on the materials/media chosen by the student.

#### ENGLISH LANGUAGE ARTS

1064	Competitive Speech and Drama, Beginning	Maximum course cost is \$25.00.
1065	Competitive Speech and Drama, Advanced	Maximum course cost is \$25.00.
1424	Debate, Novice - Fall	Maximum course cost is \$25.00.
1434	Debate, Advanced Honors - Fall	Maximum course cost is \$25.00.
1441	Photo Digital Productions	Maximum course cost is \$20.00
1450	Drama	Students participating in drama may be required to buy additional props or uniforms to supplement those provided by the district.
1082, 1088H	ELA 1, (9th)	
	ELA 1H (9th)	*\$8.00 for purchase of book for annotation.
1140, 1144H	ELA 2 (10th)	
	ELA 2H (10th)	*\$8.00 for purchase of book for annotation.
1150, 1153AP, 1155HL	ELA 3 (11th ), AP English Lang and Comp, IB English	*\$8.00 for purchase of book for annotation.
1160, 1630AP, 1633HL	ELA 4 (12th) AP English Lit and Comp, IB	*\$8.00 for purchase of book for annotation.
1521	Video Production 1	Maximum course cost is \$25.00
1522	Video Production 2	Maximum course cost is \$25.00
1523	Advanced Video Production	Maximum course cost is \$25.00

\*Students may keep book for future use and reference.

#### FAMILY AND CONSUMER SCIENCES

6383	Fashion, Apparel and Interior Design Essentials	Course cost \$10.00
6390,	Apparrel Production 1	Course cost determined by projects chosen by student
6391	Apparrel Production 2	Course cost determined by projects chosen by student
6408	**Commercial Baking 1	Course cost is \$25.00 for consumables per semester.
6409	**Commercial Baking 2	Course cost is \$25.00 for consumables per semester
6406	**Culinary Arts 1	Course cost is \$25.00 for consumables per semester
6407	**Culinary Arts 2	Course cost is \$25.00 for consumables per semester.
6330	Focus on Foods	Course cost is \$20.00.

## SHAWNEE MISSION

### COURSE COSTS

6321	Foods, Advanced	Course cost is \$20.00.
6402	Foods, International	Course cost is \$20.00.
6312	Interior Design	Course cost is \$10.00.
6411	Nutrition and Wellness	Maximum course cost is \$20.00.

\*\*Students must wear appropriate professional attire and may be required to purchase pants and shoes to meet the program requirements.

#### INDUSTRIAL TECHNOLOGY

6601	Automotive Essentials	Students provide transportation to school site.
6602	Automotive Technology 1	Course cost determined by projects chosen by student. Students provide transportation to school site.
6603	Automotive Technology 2	Course cost determined by projects chosen by student. Students provide transportation to school site.
6604	Automotive Technology 3	Course cost determined by projects chosen by student. Students provide transportation to school site.
6703	Computer-Aided Manufacturing	Course cost determined by projects chosen by student.
6759	Design 1, Computer-Aided Architectural	Course cost determined by projects chosen by student.
6761	Design 2, Computer-Aided Architectural	Course cost determined by projects chosen by student.
6757	Design, Computer-Aided Industrial	Course cost determined by projects chosen by student.
6755	Design, Introduction to Computer-Aided	Course cost determined by projects chosen by student.
6927 (SMW)	Metal Production depending on student-selected projects.	Course cost is \$25.00. Additional costs may be incurred Students provide transportation to school site.
6896 (SMW)	Welding, Introduction to	Course cost is \$15.00. Additional costs may be incurred depending on student-selected projects. Students provide transportation to school site.
6897 (SMW)	Welding 1	Course cost is \$50.00. Additional costs may be incurred depending on student-selected projects. Students provide transportation to school site.
6898 (SMW)	Welding 2	Course cost is \$50.00. Additional costs may be incurred depending on student-selected projects. Students provide transportation to school site.
6895	Wood Design and Fabrication	Course cost determined by projects chosen by student.
6908	Wood Design 1	Course cost determined by projects chosen by student.
6905	Wood Design 2	Course cost determined by projects chosen by student.

#### MATHEMATICS

Scientific calculators for home use. Graphing calculators for home use.

#### MUSIC

Students enrolled in some instrumental classes may be required to purchase a methods book. For specific costs contact the music director at your school. Members of top select groups may be required to purchase their own school-approved performance uniforms.

#### SCIENCE

Goggles are required for safety in the lab and may be ordered through the classroom teacher. Maximum cost \$3.00.

4130	Biology 1	
4131	Biology 1 H	
4151	Biology 2 AP	
4133	Biotechnology 1	Course cost is \$30.00.
4143	Biotechnology 2 H	Course cost is \$30.00.
4145	Biotechnology 3H	Course cost is \$30.00.
4170	Chemistry 1	
4169	Chemistry 1 H	

## SHAWNEE MISSION

### COURSE COSTS

4183	Chemistry 2 H/AP	
4410	Human Anatomy & Physiology	Maximum course cost is \$10.00.
4128	Physical Science	
4411	Zoology Course	Cost is \$10.00.

#### **TEACHER EDUCATION**

6515	*Teacher Education 1
6516	*Teacher Education 2
6517	*Teacher Internship

\*A health certificate and TB test administered no more than one year prior to the first day of school are required.

#### **SPECIALIZED PROGRAMS**

9940	Career Experience	Students provide transportation to work site.
9938	Community Service	Students provide transportation to and from the community service site.
0882	Mentor Program	Students provide transportation to mentor site.
9065	NJROTC/NNDC	District transportation not provided for special activities.
9320	College Campus Study	Students provide transportation.

#### **BIOTECHNOLOGY**

4133	Biotechnology 1	Course cost is \$30.00.
4143	Biotechnology 2 H	Course cost is \$30.00.
4145	Biotechnology 3H	Course cost is \$30.00.

#### **CULINARY ARTS AND HOSPITALITY**

6408	**Commercial Baking 1	Course cost is \$25.00 per semester for consumables.
6409	**Commercial Baking 2	Course cost is \$25.00 per semester for consumables.
6406	**Culinary Arts 1	Course cost is \$25.00 per semester for consumables.
6407	**Culinary Arts 2	Course cost is \$25.00 per semester for consumables.

\*\*Students must wear appropriate professional attire and may be required to purchase pants and shoes to meet the program requirements.

#### **eSCHOOL**

For information regarding course costs associated with eSchool, please contact (913 993-9740) or refer to eSchool webpage:

<http://summerschool.smsd>.

#### **INTERNATIONAL BACCALAUREATE**

(East, North, and Northwest)

The current program fee is \$443.00. The certificate candidate registration fee \$172.00. Certificate candidates are also responsible for the individual exam fees which are set annually by the International Baccalaureate Organization. The fee for course testing is currently \$119.00. Fees are subject to change based upon the fee structure established by the International Baccalaureate Organization.

#### **MEDICAL HEALTH SCIENCE**

4138	*Medical Health Science 2	Course cost is \$20.00. CPR and optional certification may require additional fees. Students provide transportation to shadow site.
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\*Certificate of health, Hepatitis B series, and TB test, administered no more than one year prior to the first day of class, are required.

# SHAWNEE MISSION

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## ART / VISUAL ART

It is recommended that students initially take introduction to Studio Art followed by Drawing. These courses set the foundation for all other art courses. Credit for art courses may be applied toward the minimum fine arts graduation requirement.

Note: Introduction to Studio Art and Photography 1 may only be taken one time. All other art courses may be taken twice for a maximum of one credit each. Art Independent Study can be taken for up to 2.5 units of credit.

SMSD Career Pathways	
<i>Visual Arts</i>	<b>Graphic Design</b>
<b>Intro Level</b>	Microsoft Business Applications (0.5)
<b>Technical Level</b>	Intro to Drawing (0.5)
	Graphic Design - Art (0.5)
	Digital Photo - Art (0.5)
	Digital Design (0.5)
	Digital Design Studio (1.0)
	Drawing 2 (0.5)
<b>Application Level</b>	Digital Design Studio, Advanced (1.0)
	Editorial Leadership (1.0)

<b>ART HISTORY</b>		Enrollment Based
<i>ES7615</i>	<i>1/2 unit</i>	<i>9,10,11,12</i>

**Prerequisite – None**

Introducing art within historical, social, geographical, political, and religions context for understanding art and architecture through the ages, this course offers high school students an in-depth overview of art throughout history, with lessons organized by chronological and historical order and world regions.\*This course does not meet NCAA eligibility requirements

<b>CERAMICS</b>		Enrollment Based
<i>7670</i>	<i>1/2 unit</i>	<i>9,10,11,12</i>

**Prerequisite – Introduction to Studio Art.**

Students will be introduced to basic methods of working with clay as an art form, as well as the history and design of ceramic art. The course includes fundamentals of three-dimensional form, design elements, hand-built and wheel-thrown pottery, glazing and firing procedures. Minimum course cost is \$30.00. Additional fees may be assessed based on the materials/media chosen by the student.

<b>ART, INDEPENDENT STUDY</b>		Enrollment Based
<i>7611</i>	<i>1/2 Unit</i>	<i>11,12</i>

**Prerequisite – Introduction to Studio Art and teacher recommendation.**

Independent Study is designed for students who wish to do advanced work in a specific media elective. It can be taken for up to 2.5 units of credit. Students must complete a prescribed program that has been designed in cooperation with the teacher. This course is repeatable. Cost will vary depending on student's emphasis.

<b>DIGITAL PHOTO - ART</b>		Enrollment Based
<i>7698</i>	<i>1/2 unit</i>	<i>9,10,11,12</i>

**Prerequisite – Photography 1**

Students will explore the technical skills needed to produce quality digital images. Digital photography topics include use of equipment, software, photo editing, and manipulation. Studio projects are more student directed and open-ended regarding approach and subject matter. Continued exploration of the history of photography, processes/techniques, and constructive dialogue will be incorporated. Minimum course cost is \$35.00. Additional fees may be assessed based on the materials/media chosen by the student.

<b>ART PORTFOLIO PREPARATION</b>		Enrollment Based
<i>7603</i>	<i>1/2 Unit</i>	<i>11,12</i>

**Prerequisite – Introduction to Studio Art and teacher recommendation.**

Art Portfolio Preparation is open to seniors and second semester juniors who are interested in furthering their art experiences after high school. Emphasis of the course includes portfolio development, preparation for college, scholarship competitions, exhibit presentation, and art appreciation. Minimum course cost is \$40.00. Additional fees may be assessed based on the materials/media chosen by the student.

## ART / VISUAL ART

<b>DRAWING</b>		Enrollment Based
7645	1/2 unit	9,10,11,12

### Prerequisite – Introduction to Studio Art

Students will explore both traditional and non-traditional drawing techniques and materials in a studio setting. This course includes observational experiences in drawing subject matter taken from nature, the figure, man-made objects, and also incorporates print-making processes. This course is recommended to be taken early in the art student's enrollment because of the importance rendering skills play in project development in all other art courses. Minimum course cost is \$25.00. Additional fees may be assessed based on the materials/media chosen by the student.

<b>DRAWING 2</b>		Enrollment Based
7649	1/2 unit	10,11,12

### Prerequisite – Drawing

This course is designed for those who have completed Drawing and have a desire to do advanced work in drawing. Observational drawing, illustration techniques, and visual problem solving will be emphasized. Students integrate art criticism, study of contemporary art history and technology. Minimum course cost is \$25.00. Additional fees may be assessed based on the materials/media chosen by the student.

<b>GRAPHIC DESIGN - ART</b>		Enrollment Based
7627	1/2 unit	9,10,11,12

### Prerequisite – Introduction to Studio Art

Students will use the elements of art and design to create original graphic imagery to communicate with a variety of audiences. Students will learn marketable problem solving skills preparing them to work in creative fields using a variety of graphic software programs found in the Adobe Design Suite. Imagery creation will incorporate the usage of digitizing equipment such as in-program tools, scanners, digital drawing tablets, digital cameras, and traditional art media. Minimum course cost is \$15.00.

<b>INTRODUCTION TO STUDIO ART</b>		Enrollment Based
7536	1/2 unit	9,10,11,12

### Prerequisite – None

Introduction to Studio Art is the prerequisite for all other art courses offered in Shawnee Mission. This drawing/design-based course functions as an introduction to the elements of art and the principles of design within the confines of a studio environment. Minimum course cost is \$20.00. Additional fees may be assessed based on the materials/media chosen by the student.

<b>JEWELRY/SCULPTURE STUDIO</b>		Enrollment Based
7683	1/2 Unit	9,10,11,12

### Prerequisite – Introduction to Studio Art

A wide variety of materials (metal, wood, textiles, clay, plaster, stone, and found/recycled objects) may be utilized in the fabrication of three dimensional wearable and non-wearable ornamental objects. This course will employ additive, subtractive, and experimental construction processes. Emphasis will be placed on the study of sculptural art objects, both past and present. Minimum course cost is \$40.00. Additional fees may be assessed based on the materials/media chosen by the student.

<b>PAINTING</b>		Enrollment Based
7650	1/2 Unit	9,10,11,12

### Prerequisite – Introduction to Studio Art

Painting covers the history, development, and techniques involved in working with transparent and opaque media. Students will become proficient in media applications, knowledge of media characteristics, and presentation of finished work. Individualistic style is encouraged in interpreting subject matter including still-life, figure study, landscape, and abstraction. Minimum course cost is \$35.00. Additional fees may be assessed based on the materials/media chosen by the student.

<b>PHOTOGRAPHY 1</b>		Enrollment Based
7696	1/2 unit	9,10,11,12

### Prerequisite – Introduction to Studio Art or teacher recommendation

Students will explore analog (traditional) 35mm camera functions, black and white film processing and darkroom printing. This course will include an introduction to the history and science of photography, criticism, as well as the social implications of reproducible imagery. Students must have access to a 35mm camera. Minimum course cost is \$35.00. Additional fees may be assessed based on the materials/media chosen by the student.

<b>STUDIO ART</b>		Enrollment Based
	1 unit	12

### 7635 AP – 1 unit – AP Studio Art: 2-D Design

### 7632 AP – 1 unit – AP Studio Art: 3-D Design

### 7633 AP – 1 unit – AP Studio Art: Drawing

### Prerequisite – Teacher Approval

Studio Art AP enables students to earn college credit and/or advanced placement while still in high school. Students must enroll in two consecutive semesters of Studio Art AP. Portfolios are required in order to receive College Board credit. Formal, conceptual art, art issues, critical decision making about art, and increased proficiency in technical skills are all emphasized. Cost of this course varies according to the student's media concentration.

# BUSINESS

SMSD CTE Pathways	
Pathway: Marketing	Strand: Marketing
Intro Level	Intro to Business (0.5)
Technical Level	Marketing 1 (1.0)
	Entrepreneurship (0.5)
	Accounting (1.0)
	Business Management (0.5)
	Business Communications (0.5)
	Economics I (0.5)
	Web Design (1.0)
Application Level	Digital Design Studio (1.0)
	Marketing 2 (1.0)
	Marketing Research (1.0)

**ACCOUNTING** Enrollment Based  
6025 1 Unit 10,11,12

**Prerequisite – None**

Accounting is the language of business and is considered a must for college business majors. Accounting is a valuable course for all students pursuing a career in business, marketing, or management. Financial transactions will be analyzed and recorded and financial statements will be produced. Accounting software will be introduced.

**BUSINESS COMMUNICATIONS** Enrollment Based  
6036 1/2 Unit 9,10,11,12

**Prerequisite – None**

This course will help students to develop an understanding and appreciation for effective communication in business situations and environments. Emphasis is placed on all phases of communication: speaking, listening, thinking, responding, reading, writing, communicating non-verbally, and utilizing technology for communication. Business communication functions, processes, and applications in the context of business may be practiced through problem-based projects and real-world applications.

**BUSINESS - INDEPENDENT STUDY** Enrollment Based  
6011 1/2 Unit 9,10,11,12

**Prerequisite – Teacher recommendation**

Research and development activities are conducted individually under the supervision and direction of the teacher.

**BUSINESS LAW** Enrollment Based  
6120 1/2 unit 9,10,11,12

**Prerequisite – None**

This course is designed to expose the student to our legal system, civil and criminal law. Topics will include law as it relates to business ownership, consumer protection, and contractual agreements. Real situations and specific court cases will be studied. This course is repeatable.

**BUSINESS MANAGEMENT** Enrollment Based  
6031 1/2 unit 9,10,11,12

**Prerequisite – None**

This course is designed to acquaint students with basic economic functions, small business operation and entrepreneurship. Skills reinforced in this course include the functions of management, production operations, personnel, marketing, and accounting overviews. Finance and investments and international business are also emphasized. Students will become aware of the importance of business in our economy, the value and qualities of well-trained management, and be better prepared to be successful participants in the business world.

**DIGITAL DESIGN** Enrollment Based  
6010 1/2 unit 9,10,11,12

**Prerequisite – None**

Digital Design provides students the foundations of computer design using Photoshop and other graphics software. Students will capture images and learn to manipulate them to create dynamic designs. Project-based curriculum will apply design elements and principles. Credit may be applied toward the minimum fine arts graduation requirement. Course may qualify for JCCC advanced standing credit.

**DIGITAL DESIGN STUDIO** Enrollment Based  
6011 1 unit 10,11,12

**Prerequisite – None**

Students combine creativity and technical skills using Photoshop, Illustrator, InDesign, and Acrobat Professional. Students learn the skills necessary to communicate information and ideas effectively to multiple audiences using a variety of media and formats. Students culminate the year with an e-portfolio of projects which reflect the skills and knowledge learned. Credit may be applied toward the minimum fine arts graduation requirement. Course may qualify for JCCC advanced standing credit.

## BUSINESS

### SMSD CTE Pathways

<b>Pathway: Business Management/ Entrepreneurship</b>	<b>Strand: Technical Business</b>
<b>Intro Level</b>	Intro to Business (0.5)
<b>Technical Level</b>	Entrepreneurship (0.5)
	Business Management (0.5)
	Business Communications (0.5)
	Business Law (0.5)
	Economics I (0.5)
	Accounting (1.0)
Marketing 1 (1.0)	
<b>Application Level</b>	Applied Business Development (1.0)

**DIGITAL DESIGN STUDIO, ADVANCED** Enrollment Based  
6012 1 unit 11,12

**Prerequisite – Digital Design Studio, or Teacher Approval**

The Advanced Digital Design Studio course provides students opportunities to further develop and apply skills using advanced techniques for digital projects. Students work individually and in teams to produce authentic client projects. The focus is on effective graphic design and project management to solve specific digital communication challenges. Course may be repeated for credit. Course may qualify for JCCC advanced standing credit.

**ENTREPRENEURSHIP** Enrollment Based  
6947 1/2Unit 10,11,12

**Prerequisite – None**

Effective business planning is the cornerstone of success. This course teaches entrepreneurs to state their business passion in practical terms with methods for analyzing their market and competition, setting achievable goals, and focusing on a strategic business plan. Students will identify a business they would like to own and operate, and create a plan to start it. Local entrepreneurs will share successes.

**FINANCIAL LITERACY** Enrollment Based  
6387 1/2Unit 10,11,12

**Prerequisite – None**

This course is a comprehensive study of personal financial literacy designed for all students, and is aligned to the national standards for personal financial literacy. Students learn how to make informed financial decisions related to budgeting, banking, credit, insurance, taxes and career exploration. An integral component of the financial literacy curriculum is the application of decision-making skills that enable students to become more responsible consumers for lifetime success.

Note: This course is required for graduation for students in the graduating class of 2020 and beyond. Students will have the opportunity to test out of this course with an approved district assessment.

**GAME DESIGN AND DEVELOPMENT 1 (CAA)** Enrollment Based  
6032 1 unit (2-hour block per semester) 10,11,12

**Prerequisite – None**

In this introductory gaming course, students will create 2D and 3D computer games. Using creativity and problem-solving skills, students will design, create, test, and debug computer games. Students will explore history of game development, game genres, game design principles and elements, and game creation for the web. District transportation is provided to Center for Academic Achievement. Credit may be applied toward the minimum fine arts graduation requirement. Course may qualify for JCCC advanced standing credit.

**GAME DESIGN AND DEVELOPMENT 2 (CAA)** Enrollment Based  
6033 1 unit (2-hour block per semester) 11,12

**Prerequisite – Game Design and Development 1**

In this second gaming course, students will work within a game development framework to create games and visualizations that will advance their knowledge and skills acquired in the game design and development 1 course. This project-driven course will emphasize the game creation process from idea generation and proof of concept to final game creation. Games and visualization will be developed using game development software that has both built-in and text based scripting languages. Credit may be applied toward the minimum fine arts graduation requirement. Course may qualify for JCCC advanced standing credit. This course may be repeated for credit.

**INTRODUCTION TO BUSINESS** Enrollment Based  
6030 1/2 unit 9,10,11,12

**Prerequisite – None**

In this course, students will learn the steps toward a successful career in marketing, finance, or management. Students will gain exposure to types of business ownership, banking, credit, marketing, and technology, and will acquire 21st century skills necessary to be successful in today's workforce.

# BUSINESS

<b>MARKETING 1</b>	Enrollment Based
6944	1 unit
	10,11,12

**Prerequisite – Intro to Business or Entrepreneurship recommended**

Marketing is the process by which companies determine which products and services would be of interest to customers and which strategies should be used in sales, communications, and product development. Students will learn how to determine what makes a product popular, how to sell products or services, develop slogans, determine price, identify target audiences, and understand media exposure and the importance of endorsements. Students have the opportunity to participate in DECA activities.

<b>MARKETING 2</b>	Enrollment Based
6944	1 unit
	11,12

**Prerequisite – Marketing 1**

This course is an advanced study of marketing management, including the topics of advanced promotion, pricing, selling, and professional development. Students will create a marketing plan and participate in a professional learning experience within the business community.

<b>MARKETING RESEARCH</b>	Enrollment Based
6970	1 unit
	11,12

**Prerequisite – Marketing 1**

Marketing Research will focus on how to determine information needs and how to design a research study to meet those needs. Students will collect, analyze and use marketing research data to make effective marketing decisions, and communicate the research findings, conclusions, and recommendations. Projects will be presented at the state-level DECA competition.

<b>MICROSOFT BUSINESS APPLICATIONS</b>	Enrollment Based
6136	1/2 unit
	9,10,11,12

**Prerequisite – None**

Students will learn the necessary skills needed to use the Microsoft Office software. The first quarter of each semester will focus on Word. The second quarter of each semester will focus on Excel. Those students accelerating through Word and Excel may take advantage of enrichment opportunities in PowerPoint. Through learning experiences provided within this course, students will be eligible to participate in a Microsoft Office Specialist Certification, where the testing option is provided at the end of the course's specific units of study. The cost associated with the certification is the responsibility of the student. Course may qualify for JCCC advanced standing credit.

<b>3D MODELING &amp; ANIMATION 1 (CAA)</b>	Enrollment Based
6074	1 unit (2-hour block per semester)
	10,11,12

**Prerequisite – None**

This course introduces students to the tools and skills needed to create 3D digital animations. Students will model objects and characters, create realistic textures and motion graphics, and use sound and advanced animation 3D techniques to create visual stories. District transportation is provided to CAA. Credit may be applied toward the minimum fine arts graduation requirement. Course may qualify for JCCC advanced standing credit.

<b>3D MODELING AND ANIMATION 2 (CAA)</b>	Enrollment Based
6075	1 unit (2-hour block per semester)
	10,11,12

**Prerequisite – 3D Modeling and Animation 1**

In this 3D animation course students will study advanced applications of 3D animation software. Students will develop projects to advance their knowledge of techniques acquired in 3D animation 1. Topics may include 3D modeling, advanced lighting, camera work, materials, character rigging, sound creation, special effects, and rendering to design and create photo-realistic images and animations and portfolio quality artifacts. Credit may be applied toward the minimum fine arts graduation requirement. Course may qualify for JCCC advanced standing credit. This course may be repeated for credit.

<b>2D ANIMATION 1 (CAA)</b>	Enrollment Based
6071	1 unit (2-hour block per semester)
	10,11,12

**Prerequisite – None**

This course emphasizes the design and development of visual creativity expressed through drawing and storytelling with technology. Students will develop digitally generated 2D animations using industry-standard graphics software. Students will study character and story development, principles of animation, control and movement management through frame-by-frame animation, scripting languages, and sound creation and editing techniques. District transportation is provided to CAA. Credit may be applied toward the minimum fine arts graduation requirement. Course may qualify for JCCC advanced standing credit.

<b>2D ANIMATION 2 (CAA)</b>	Enrollment Based
6072	1 unit (2-hour block per semester)
	10,11,12

**Prerequisite – 2D Animation1**

In this second 2D animation course, students will work within a creative outline to develop story-based animations and/or visualizations that will advance their knowledge and skills acquired in the first 2D Animation course. This project-driven course will emphasize the creative process from concept art and storyboarding to creating the animatic, pre-visualization, sound design and final film. Credit may be applied toward the minimum fine arts graduation requirement. Course may qualify for JCCC advanced standing credit. This course may be repeated for credit.

<b>WEB DESIGN</b>	Enrollment Based
6084	1 unit
	10,11,12

**Prerequisite – None**

This course is an introduction to the design, creation, and maintenance of web pages and websites. Students will learn about web design standards and how to create web pages using HTML, Dreamweaver, Fireworks, Photoshop, and other technologies used in digital communications. Credit may be applied toward the minimum fine arts graduation requirement. Course may qualify for JCCC advanced standing credit.

## ENGLISH LANGUAGE ARTS (ELA)

SMSD CTE Pathways		
<i>Pathway: AV Communications</i>	<b>Strand: Journalism</b>	<b>Strand: Video Production</b>
<b>Intro Level</b>	Intro to Business (0.5)	
	Microsoft Business Applications (0.5)	
<b>Technical Level</b>	21st Century Journalism (0.5)	Video Production 1 (0.5)
	Photo - Digital Production (0.5)	Video Production 2 (0.5)
	Digital Design (0.5)	
	Digital Photo - Art (0.5)	
	Digital Design Studio (1.0)	
<b>Application Level</b>	Digital Production (1.0)	Advanced Video Production (1.0)
	Editorial Leadership (1.0)	Video Production Leadership (1.0)

**ACTOR'S STUDIO** Enrollment Based  
1610 1/2 unit 10,11,12

### Prerequisite – Drama

Students must take drama before they may enroll in actor's studio. This course is one-half unit and lasts one semester. Students concentrate on acting and improving their communication skills. Students perform improvisation and theatre games, act with a partner, develop auditioning skills, write scenes/monologues, and improve voice and diction. Course may be repeated with approval of instructor for a maximum of one unit of credit. Additional repetitions will be considered independent study. Credit may be applied toward the minimum fine arts graduation requirement.

**COMPETITIVE SPEECH AND DRAMA, BEGINNING** Enrollment Based  
1064 1/2 unit 9,10,11,12

### Prerequisite – None

Students prepare for speech performances which may include the following: oral interpretation of prose and poetry, dramatic and humorous interpretation, duo interpretation, duet acting, improvised duet acting, original oratory, informative, impromptu and extemporaneous speaking (foreign and domestic), Student Congress, Lincoln-Douglas Debate, and Public Forum Debate. Students will be encouraged to participate in contests. Maximum course cost is \$25.00. Credit may be applied toward the minimum fine arts graduation requirement.

**COMPETITIVE SPEECH AND DRAMA, ADVANCED** Enrollment Based  
1065 1/2 unit 9,10,11,12

### Prerequisite – Competitive Speech and Drama, Beginning

Students refine performance and speaking skills by preparing and rehearsing the following: oral interpretation of prose and poetry, dramatic and humorous interpretation, duo interpretation, duet acting, improvised duet acting, original oratory, informative, impromptu, and extemporaneous speaking, Student Congress, Lincoln-Douglas debate, and Public Forum debate. Students will be required to participate in more competitive speech contests than students in the standard advanced course, will have additional peer and self-critique

assignments, and must prepare and/or compete in events in all three categories (interpretation/drama, public speaking, and debate). Maximum course cost is \$25.00. Credit may be applied toward the minimum fine arts graduation requirement. The course may be repeated for credit.

**CONTEMPORARY COMMUNICATIONS (CAA) (CTC)** Enrollment Based  
1640 1/2 unit 11,12

### Prerequisite – ELA 2

Contemporary Communications provides students with a blended learning environment by which they explore fundamentals of effective communication in the 21st century while enrolled in Shawnee Mission Signature Program courses at the Center for Academic Achievement. Students develop and apply skills in personal communication including critical thinking, speaking, listening, and written communications linked to the signature programs of study of their interest. Students will participate in ongoing activities aligned to Kansas English Language Arts standards while enhancing content linked directly to the respective signature programs. A significant portion of the course is conducted via on-line assignments and communication. **This blended format requires students to be attentive to assignment deadlines and electronic communications from the instructor.** This course is repeatable for credit.

**DEBATE, NOVICE** Enrollment Based  
1424 1/2 unit/Fall 9,10,11,12

### Prerequisite – None

Skills in the areas of speaking, thinking, organization, research, and writing are emphasized in this course. Students learn to support two or more sides of a controversial question. Beginning students are encouraged to develop leadership, teamwork, cooperation, and dependability in tournament preparation and squad relations. Students have numerous opportunities to use their new skills and are encouraged to participate in debate contests. Minimal after-school work is expected. Course 1425 may be repeated for credit. Students who begin debate during the spring semester will learn and practice the same skills as fall semester students, but will not participate in debate contests. Maximum course cost is \$25.00.

## ENGLISH LANGUAGE ARTS (ELA)

<b>DEBATE, ADVANCED H</b>	Enrollment Based
1434	1/2 unit/Fall 9,10,11,12

**Prerequisite – Debate, Beginning and teacher recommendation**

Through the study of argumentation theory, students will develop and refine debate skills of speaking, thinking, organization, research, and writing. Advanced students are expected to demonstrate leadership, teamwork, cooperation, and dependability in tournament preparation and squad relations. All students are required to work after school on a weekly basis and participate in debate contests. Maximum course cost is \$25.00. This course may be repeated for credit

<b>NEWS MEDIA – DIGITAL PRODUCTION</b>	Enrollment Based
1440	1 unit 9,10,11,12

**Prerequisite – 21st Century Journalism**

This class provides a hands-on experience in writing, designing, and editing student news media outlets. Students have full responsibility for production of content and solicitation of advertising. Students are expected to demonstrate teamwork, cooperation, and dependability; as such, after-school work is mandatory. This course may be repeated for credit. Credit may be applied toward the minimum fine arts graduation requirement. With teacher and administrator approval, a student who has not completed 21st Century Journalism may enroll.

<b>PHOTO – DIGITAL PRODUCTION</b>	Enrollment Based
1441	1/2 unit 9,10,11,12

**Prerequisite – Teacher recommendation**

Students enrolling in this class will learn the techniques needed to provide digital photographs for a variety of media. Students will be required to shoot for the yearbook, newspaper, and website, and will be expected to attend a variety of after-school events. Students will have access to digital cameras. Maximum course cost is \$20.00. Credit may be applied toward the minimum fine arts graduation requirement. The course may be repeated for credit.

<b>YEARBOOK – DIGITAL PRODUCTION</b>	Enrollment Based
1442	1 unit 9,10,11,12

**Prerequisite – Teacher recommendation**

This class provides “hands-on” experience in writing, designing, and editing student media outlets. Students have full responsibility for creating a digital media project for public presentation and will also solicit advertising to help offset the cost of production. After-school work is mandatory. This course may be repeated for credit. Credit may be applied toward the minimum fine arts graduation requirement.

<b>DRAMA</b>	Enrollment Based
1450	1 unit 9,10,11,12

**Prerequisite – None**

Drama is a year-long elective which earns a full credit. The class is a mixed-grade level class with students from ninth to twelfth grade enrolled together. Students learn about theater, past and present; theater, onstage and backstage; and learn to understand and appreciate the theater process. Students participate in a variety of activities including improvisations, theater games, acting alone and with a partner, playwriting, casting, and

directing. Students participating in drama may be required to buy additional props or uniforms to supplement those provided by the district. Credit may be applied toward the minimum fine arts graduation requirement.

<b>EDITORIAL LEADERSHIP – NEWSPAPER</b>	Enrollment Based
1496	1 unit 10,11,12

**Prerequisite – Leadership position on a publication and teacher approval**

Editorial leadership guides students through the day-to-day management of scholastic media outlets, emphasizing the development of skills in human relations, oral and written communication, critical thinking, advanced problem-solving development of plans for project management, and resource scheduling. Course may be repeated for credit.

<b>EDITORIAL LEADERSHIP – YEARBOOK</b>	Enrollment Based
1497	1 unit 10,11,12

**Prerequisite – Leadership position on a publication and teacher approval**

Editorial leadership guides students through the day-to-day management of scholastic media outlets, emphasizing the development of skills in human relations, oral and written communication, critical thinking, advanced problem-solving, development of plans for project management, and resource scheduling. This class is designed to help student editors meet the stringent demands of leading a group toward a common goal. Course may be repeated for credit.

<b>ENGLISH LANGUAGE ARTS</b>	
ELA 1,2,3,4	1 unit 9,10,11,12

All English courses address the same general goals. Students will:

1. Read a variety of texts for understanding, information, and personal enjoyment.
2. Write effectively for different audiences, purposes, and occasions.
3. Employ language to communicate effectively.
4. Speak effectively for a variety of audiences, purposes, and occasions.
5. Apply skills to become independent learners.

Students may not enroll concurrently in English 9-12 courses. Exceptions to this policy are subject to the building review process; final approval must be granted by the building principal.

Descriptions:

+ These are the standard courses in which the vast majority of students will enroll.

++ Prerequisite – These courses are for students who have advanced reading and writing skills and who have the desire for a more rigorous curricula.

Note: Students will be assessed \$8.00 for instructional materials which may include print or digital books for annotation. The books may be kept by the students for future use and reference.

## ENGLISH LANGUAGE ARTS (ELA)

<b>ELA 1</b>		Enrollment Based
1082	1 unit	9

### Prerequisite – None

Students read closely and think critically about a variety of literary genres, including fiction and informational texts. Students will write for a variety of purposes, applying effective language skills and participate in small group and whole group discussions.

<b>ELA 1H</b>		Enrollment Based
1088	1 unit	9

### Prerequisite – None

Students read closely and think critically with a greater depth about a variety of literary genres, including fiction and informational texts. Students will write with increasing sophistication for a variety of purposes, applying effective language skills and actively participate in small group and whole group critical discussions.

<b>ELA 2</b>		Enrollment Based
1140	1 unit	10

### Prerequisite – ELA 1

Students read closely and think critically through diverse reading experiences, including fiction and informational texts. Students will write analytically for a variety of purposes, applying effective language skills and participate in small group and whole group critical discussions.

<b>ELA 2H</b>		Enrollment Based
1144	1 unit	10

### Prerequisite – ELA 1

Students read closely and think critically with a greater depth through diverse reading experiences, including complex fiction and informational texts. Students will write analytically for a variety of purposes, applying effective and higher level language skills and actively participate in small group and whole group critical discussions.

<b>ELA 3</b>		Enrollment Based
1150	1 unit	11

### Prerequisite – ELA 2

Students read closely and think critically about diverse themes in American history, using a variety of fiction and informational texts. Students will write analytically through a range of formal and informal writing, actively participate in oral discussions, apply appropriate language skills in writing and speaking, and develop research skills using teacher-directed and student-generated topics.

<b>AP ENGLISH LANGUAGE AND COMPOSITION</b>		
		Enrollment Based

1153 AP	1 unit	11
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1156 IB (SME)	1 unit	11
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1155 IB (SMN/SMNW)	1 unit	11
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### Prerequisite – ELA 2

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. This course is also listed in International Baccalaureate.

<b>ELA 4</b>		Enrollment Based
1160	1 unit	12

### Prerequisite – ELA 3

Students read closely and think critically about diverse and relevant themes, using a variety of fiction and informational texts. Students will write analytically through a range of appropriate language skills in writing and speaking and refined research skills using teacher-directed and student-generated topics.

<b>AP ENGLISH LITERATURE AND COMPOSITION</b>		
		Enrollment Based

1630 AP	1 unit	12
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1632 IB (SME)	1 unit	12
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1633 IB (SMN/SMNW)	1 unit	12
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### Prerequisite – ELA 3

The AP English Literature and Composition course aligns to an introductory college-level literary analysis course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. This course is also listed in International Baccalaureate.

## ENGLISH LANGUAGE ARTS (ELA)

### LANGUAGE ARTS INDEPENDENT STUDY

1671	1 unit	Enrollment Based 9, 10, 11, 12
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**Prerequisite – Teacher recommendation.**

Students who have particular projects they wish to pursue may enroll. When a student is accepted for independent study by the department, a teacher is assigned to supervise the project. Parental permission is required for students enrolling in the course. This course is repeatable.

### READING EXPEDITIONS

1532	1/2 unit	Enrollment Based 10, 11, 12
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**Prerequisite – None**

This course is designed for students needing to improve reading skills in order to meet the demands of academic reading and to meet the state and district standards. Class instruction includes whole-class and small-group instruction, independent practice, and Web-based activities to build vocabulary and comprehension skills and to improve reading fluency.

### REPERTORY THEATRE

1550	1 Unit	Enrollment Based 11, 12
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**Prerequisite – Drama, Actor's Studio, Technical Theatre, and/or teacher recommendation**

This course is for juniors and seniors only. The troupe stages productions and workshops. Students produce, direct, adapt, write, teach, perform, and manage all facets of class productions. The prerequisites for this course may be taken concurrently or waived with teacher permission. Some after-school work is expected. Course may be repeated for credit. Credit may be applied toward the minimum fine arts graduation requirement.

### REPERTORY THEATRE, ADVANCED

1555	1 Unit	Enrollment Based 12
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**Prerequisite – Drama, Actor's Studio, Technical Theater and/or teacher recommendation.**

This is a select, all-senior performing group. Interested drama students apply their junior year. This group tours and performs student-directed and student-written plays and sketches, and also stages major productions. Credit may be applied toward the minimum fine arts graduation requirement.

### ACT/SAT PREPARATION

9937	1/2 unit	Enrollment Based 10, 11, 12
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**Prerequisite – None**

In this elective course, students will understand the test taking and test preparation process. Additionally, they will be exposed to various types of SAT/ACT questions, review specific content covered on the tests, and interpret and use test scores. Students are encouraged to complete the entire course the semester before they begin college admissions testing.

### SPEECH 1

1060	1/2 unit	Enrollment Based 9, 10, 11, 12
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**Prerequisite – None**

Students learn the fundamentals of giving basic formal and informal speeches. They learn how to prepare speeches and how to feel comfortable facing an audience. Students build self-confidence in giving oral presentations more easily in speech classes and all other courses. Students investigate interests and talents in the performing arts areas of drama, debate, and contest speaking.

### SPEECH 2

1070	1/2 unit	Enrollment Based 9, 10, 11, 12
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**Prerequisite – Speech 1**

This community-related course is designed to enhance the student's interpersonal and public speaking skills in order to prepare for communication skills required in today's marketplace. There are no required speech contests.

### TECHNICAL THEATRE

1582	1/2 unit	Enrollment Based 10, 11, 12
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**Prerequisite – Drama or teacher recommendation**

In this one-semester class, students work independently on selected projects in the technical (backstage) areas of theatre. These are construction, makeup, costumes, sound, lights, publicity, design work, programs, videotaping, house management, etc. A wide range of projects allow students to work creatively. Teamwork, cooperation, and dependability are stressed, and each student is expected to meet deadlines. Some after-school work is expected. Course may be repeated with permission of teacher. Credit may be applied toward the minimum fine arts graduation requirement.

### TECHNICAL WRITING AND APPLIED COMMUNICATIONS

1635	1 unit	Enrollment Based 12
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**Prerequisite – English 9, 10, 11**

Technical writing and applied communications is a course for career-oriented students who plan to attend a two or four year college. Because the course is designed to introduce students to writing required in the work environment, students will complete assignments in both classroom and community settings. Students will learn reading, listening, and speaking skills; explore group dynamics, interviewing, and problem-solving strategies; and write various types of technical correspondence demonstrating accuracy in grammar.

### 21st CENTURY JOURNALISM

1481	1/2 unit	Enrollment Based 9, 10, 11, 12
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**Prerequisite – None**

Students are introduced to the role of the media in our society. Students will learn basic reporting and journalistic techniques as they interview, research, and create news and feature articles for a variety of media. Students will also study editorial writing, basic principles of layout, headline writing, and advertising design, as well as journalistic applications of online and social media.

## ENGLISH LANGUAGE ARTS (ELA)

### UNITED STATES LATINO LITERATURE (SMN)

Enrollment Based

1157	1/2 unit	10, 11, 12
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**Prerequisite – ELL 3 or English 9**

This course will place the genre of Latino literature in the forefront of study. Often the same stories and themes are anthologized in adopted textbooks, but this class will delve deep into the various voices of Latino authors who have contributed to the complex disposition of the Latino experience in the United States. Study will span from historical accounts of the first Spanish explorers to contemporary Nuyorican spoken word poets. Analyzing author's purpose, common (and uncommon) themes, and cultural influences this literature has on greater society will allow the student to cultivate a critical eye of what is deemed "classic American literature". A knowledge of Spanish is beneficial, yet not required. This course is only offered at SM North.

### VIDEO PRODUCTION 1

Enrollment Based

1521	1/2 unit	9, 10, 11, 12
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**Prerequisite – None**

This course provides a basic understanding of producing video for a variety of uses in a hands-on, project-based environment. Topics include analyzing the pre-production, production and post-production process, as well as explore the equipment and techniques used to develop a quality video production. Students may have the opportunity to explore a broadcast studio space. Maximum course fee is \$25.00.

### VIDEO PRODUCTION 2

Enrollment Based

1522	1 unit	10, 11, 12
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**Prerequisite – Video Production 1 and teacher approval**

Video Production 2 teaches the technical skills needed to work with electronic media. Topics include exploring the use of digital media and video today and in the future, a study of the relationship of work flow to project planning and completion and the software, equipment and tools used in the industry. Maximum course fee is \$25.00.

### ADVANCED VIDEO PRODUCTION

Enrollment Based

1523	1 unit	11, 12
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**Prerequisite – Advanced Video Production or Video Production 2; teacher approval**

This course applies the technical skills learned in Video Production 1 and 2 to produce a variety of authentic content that includes the full production process. Course may be repeated for credit. Credit may be applied toward the minimum fine arts graduation requirement. Maximum course fee is \$25.00.

### VIDEO PRODUCTION LEADERSHIP

Enrollment Based

1524	1 unit	11, 12
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**Prerequisite – Advanced Video Production and teacher approval**

Video Production Leadership guides students through the day-to-day management of scholastic media outlets, emphasizing the development of skills in human relations, oral and written communication, critical thinking, advanced problem-solving, development of plans for project management, and resource scheduling. This class is designed to help student producers meet the stringent demands of leading a group toward a common goal.

### WRITER'S WORKSHOP

Enrollment Based

1410	1/2 unit	9, 10, 11, 12
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**Prerequisite – None**

Students examine models and construct original poems, short stories, essays, dramas, and other creative modes of writing. Students experiment with a variety of genres and produce at least one piece for class publication. During class time, there is a free exchange of ideas concerning the students' work. Course may be repeated for credit.

### INDIVIDUAL GOALS - ELA

Enrollment Based

0318	1 unit	9
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0328	1 unit	10
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0329	1 unit	11
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0330	1 unit	12
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**Prerequisite – IEP team recommendation**

Enrollment in the course is determined by the Individual Education Plan team. Credit in this course may be applied toward the minimum graduation requirement in English Language Arts.

## FAMILY AND CONSUMER SCIENCE

SMSD Career Pathways			
	Interior Design	Fashion & Apparel Design	Fashion Merchandising
<b>Intro Level</b>	Intro to Family & Consumer Sciences (taken in middle school)		
	Career & Life Planning (0.5)		
	Essentials of Fashion, Apparel & Interior Design (0.5)		
<b>Technical Level</b>	Interior Design (0.5)	Apparel Production 1 (0.5)	Fashion Merchandising (0.5)
	Computer-Aided Architectural Design 1 (1.0)	Apparel Production 2 (0.5)	Apparel Production 1 (0.5)
<b>Application Level</b>	Fashion, Apparel, & Interior Textile Design Studio (1.0)		

### GENERAL COURSES

CAREER AND LIFE PLANNING		Enrollment Based
6427	1/2 unit	9,10

#### Prerequisite – None

Students will explore family, work, and community relationships. Goal-setting, decision-making, and strategies for success will be included as students investigate career options.

### FAMILY AND CONSUMER SCIENCE / INDEPENDENT STUDY

Enrollment Based	
6430	1/2 unit
	9,10

#### Prerequisite – Teacher recommendation

Research and development activities are conducted individually under the supervision and direction of the teacher. Course objectives and methods of evaluation will be developed by the student and teacher assigned. Independent study is repeatable for credit.

FINANCIAL LITERACY		Enrollment Based
6387	1/2 unit	10,11,12

#### Prerequisite – None

This course is a comprehensive study of personal financial literacy designed for all students, and is aligned to the national standards for personal financial literacy. Students learn how to make informed financial decisions related to budgeting, banking, credit, insurance, taxes and career exploration. An integral component of the financial literacy curriculum is the application of decision-making skills that enable students to become more responsible consumers for lifetime success.

*Note: This course is required for graduation for students in the graduating class of 2020 and beyond. Students will have the ability to test out of this course with an approved district assessment.*

NUTRITION AND WELLNESS		Enrollment Based
6411	1/2 unit	10,11,12

#### Prerequisite – None

Nutrition and Wellness is for students interested in health and wellness as a lifestyle. Students will learn about healthy foods and gain valuable information for making wise personal choices. Topics include food choices, nutrition, exercise and fitness, sustainability, and food trends. Maximum course cost is \$20.00.

### CULINARY ARTS AND EVENT MANAGEMENT COURSES

#### CATERING MANAGEMENT AND EVENT PLANNING 1 (CAA)

Enrollment Based	
6457	1 unit (Full year-This course will require students to access online learning materials and will require the students to perform both on and off campus catering events.)
	10,11,12

#### Prerequisite – None

This is an open elective course to experience career paths in the hospitality-restaurant industry. No experience necessary! All students will experience the world of entrepreneurial adventures in the catering and event industry within the local community. This hands-on class will model running a variety of hospitality businesses in formal, informal, and theme food events, while learning standard operational procedures of accounting, food production, contract law, and business marketing principles. Industry learning events can be outside the normal school day. Uniforms provided. Industry certification is available at the end of the semester. Personal transportation may be required for those events. The course is a blend of hands-on classroom training, active event management, and virtual classroom instruction. Online virtual learning will be a mixture of live and recorded sessions. Credit may be applied toward the minimum fine arts graduation requirement. **District transportation is not provided to Center for Academic Achievement for evening classes.**

This course will require students to access online learning materials and will require the students to perform both on and off campus catering events.

Event gratuity is shared with all student participants.

## FAMILY AND CONSUMER SCIENCE

### COMMERCIAL BAKING 1: Semester 1 (CAA)

Enrollment Based

6408                      1 unit (2-hour block per semester)                      10,11,12

#### Prerequisite – Focus on Foods

This course is designed to introduce students to all facets of bread production, sweet dough, lean dough, and quick breads. Emphasis will be in scaling ingredients, kitchen math, and formula expansion. “6” Professional Learning Experiences are required for this class per semester. These will include opportunities at The Overland Park Farmers’ Market and special events both inside and outside of the school day. Students will use industrial equipment and will apply sanitation procedures to food production. Course cost is \$25.00 per semester for consumables. District transportation is provided to the Center for Academic Achievement during normal class hours. Transportation for Professional Learning Experience outside the class day is not provided. Credit may be applied toward the minimum fine arts graduation requirement.

### COMMERCIAL BAKING 1: Semester 2 (CAA)

Enrollment Based

6408                      1 unit (2-hour block per semester)                      10,11,12

#### Prerequisite – Commercial Baking 1: Semester 1

This course is designed to introduce students to basic bakeshop production principles in cakes, cookies, pies, and specialty baked goods. Continual emphasis in learning segments will be in scaling ingredients, kitchen math, and formula expansion. “6” Professional Learning Experiences are required for this class per semester. These will include opportunities at The Overland Park Farmers’ Market and special events both inside and outside of the school day. Students will use industrial equipment and will apply sanitation procedures to food production. Course cost is \$25.00 per semester for consumables. District transportation is provided to the Center for Academic Achievement during normal class hours. Transportation for Professional Learning Experience outside the class day is not provided. Credit may be applied toward the minimum fine arts graduation requirement.

### COMMERCIAL BAKING 2: Semester 1 (CAA)

Enrollment Based

6409                      1 unit (2-hour block per semester)                      10,11,12

#### Prerequisite – Commercial Baking 1: Semester 2

This course offers students an introduction to European formulas and the opportunity to further develop bread production skills in commercial applications, production sales, and cost analysis. Continual emphasis in learning segments will be in scaling ingredients, kitchen math, and formula expansion. “6” Professional Learning Experiences are required for this class per semester. These will include opportunities at The Overland Park Farmers’ Market and special events both inside and outside of the school day. Students will use industrial equipment and will apply sanitation procedures to food production. Course cost is \$25.00 per semester for consumables. District transportation is provided to the Center for Academic Achievement during normal class hours. Transportation for Professional Learning Experience outside the class day is not provided. Credit may be applied toward the minimum fine arts graduation requirement.

### COMMERCIAL BAKING 2: Semester 2 (CAA)

Enrollment Based

6409                      1 unit (2-hour block per semester)                      11,12

#### Prerequisite – Commercial Baking 2: Semester 1

This course offers students an introduction to European formulas of cakes, tortes, pastry, and pies. With a continual emphasis in learning, segments will be in scaling ingredients, kitchen math, and formula expansion. “6” Professional Learning Experiences are required for this class per semester. These will include opportunities at The Overland Park Farmers’ Market and special events both inside and outside of the school day. Students will use industrial equipment and will apply sanitation procedures to food production. Course cost is \$25.00 per semester for consumables. District transportation is provided to the Center for Academic Achievement during normal class hours. Transportation for Professional Learning Experience outside the class day is not provided. Credit may be applied toward the minimum fine arts graduation requirement.

### CULINARY ARTS 1: Semester 1 (CAA)

Enrollment Based

6406                      1 unit (2-hour block per semester)                      10,11,12

#### Prerequisite – Focus on Foods

This course offers students a practical introduction to culinary fundamentals. A continual emphasis in learning, segments will be in scaling ingredients, kitchen math, and formula expansion. Students will experience safe food handling, mise en place, stocks, sauces, soups, and vegetable cookery. A minimum “6” Professional Learning Experiences are required for this class per semester. These will include opportunities at The Bistro, Catering and Event Management, Guest Chef Mentor Series and special events both inside and outside of the school day. Students will use industrial equipment and will apply sanitation procedures to food production. Course cost is \$25.00 per semester for consumables. District transportation is provided to the Center for Academic Achievement during normal class hours. Transportation for Professional Learning Experience outside the class day is not provided. Credit may be applied toward the minimum fine arts graduation requirement.

### CULINARY ARTS 1: Semester 2 (CAA)

Enrollment Based

6406                      1 unit (2-hour block per semester)                      10,11,12

#### Prerequisite – Culinary Arts 1: Semester 1

This course offers students a practical introduction to culinary fundamentals. With a continual emphasis in learning, segments will be in scaling ingredients, kitchen math, and formula expansion. Students will experience classical cooking applications with meats, poultry, and seafood; with a focus in regional cuisine. A minimum “6” Professional Learning Experiences are required for this class per semester. These will include opportunities at The Bistro, Catering and Event Management, Guest Chef Mentor Series and special events both inside and outside of the school day. Students will use industrial equipment and will apply sanitation procedures to food production. Course cost is \$25.00 per semester for consumables. District transportation is provided to the Center for Academic Achievement during normal class hours. Transportation for Professional Learning Experience outside the class day is not provided. Credit may be applied toward the minimum fine arts graduation requirement.

## FAMILY AND CONSUMER SCIENCE

<b>CULINARY ARTS 2: Semester 1 (CAA)</b>	Enrollment Based
6407	1 unit (2-hour block per semester) 11, 12

**Prerequisite – Culinary Arts 1:Semester 2 or Commercial Baking 1:Semester 2**

This course offers students a practical introduction to advanced applications in culinary fundamentals. A continual emphasis in learning, segments will be in scaling ingredients, kitchen math, and formula expansion. Students will experience today's cooking trends, modernist cuisine, food science, special events, American Chef history. A minimum "6" Professional Learning Experiences are required for this class per semester. These will include opportunities at The Bistro, Catering and Event Management, Guest Chef Mentor Series and special events both inside and outside of the school day. Students will use industrial equipment and will apply sanitation procedures to food production. Course cost is \$25.00 per semester for consumables. District transportation is provided to the Center for Academic Achievement during normal class hours. Transportation for Professional Learning Experience outside the class day is not provided. Credit may be applied toward the minimum fine arts graduation requirement.

<b>CULINARY ARTS 2: Semester 2 (CAA)</b>	Enrollment Based
6407	1 unit (2-hour block per semester) 11, 12

**Prerequisite – Culinary Arts 2:Semester 1**

This course offers students a practical introduction to advanced applications in culinary fundamentals. With a continual emphasis in learning, segments will be in scaling ingredients, kitchen math, and formula expansion. Students will experience today's cooking trends, modernist cuisine, food science, special events, American Chef history. A minimum "6" Professional Learning Experiences are required for this class per semester. These will include opportunities at The Broadmoor Bistro, Catering and Event Management, Guest Chef Mentor Series and special events both inside and outside of the school day. Students will use industrial equipment and will apply sanitation procedures to food production. Course cost is \$50.00 for consumables. District transportation is provided to the Center for Academic Achievement during normal class hours. Transportation for Professional Learning Experience outside the class day is not provided. Credit may be applied toward the minimum fine arts graduation requirement.

<b>FOCUS ON FOODS</b>	Enrollment Based
6330	1/2Unit 9,10,11,12

**Prerequisite – None**

Students learn a variety of cooking and baking techniques through hands-on team lab experiences. While creating appetizers, entrees, and desserts, students will learn about nutrition, menu planning, and safety in this pre-culinary course. Students will work through ServSafe curriculum with certification as an option. Course cost is \$20.00.

<b>FOODS, ADVANCED</b>	Enrollment Based
6321	1/2Unit 10, 11, 12

**Prerequisite –Focus on Foods**

Students will learn cooking techniques. Topics include nutrition, salads, vegetables, meat recipes, garnishes, cake decorating, and specialty desserts. Food presentation, etiquette, consumer skills, and entertaining will be integrated throughout the course. Students will explore careers in the food industry. Credit may be applied toward the minimum fine arts graduation requirement. Course cost is \$20.00.

<b>FOODS, INTERNATIONAL</b>	Enrollment Based
6402	1/2 unit 10, 11, 12

**Prerequisite – Focus on Foods or Teacher Approval**

Cuisines of the world are emphasized through food selections and preparations. Students learn how culture, customs, traditions, and geographical factors influence worldwide food choices, habits, and preparation. Credit may be applied toward the minimum fine arts graduation requirement. Course cost is \$20.00.

<b>INTRODUCTION TO RESTAURANT MANAGEMENT (CAA)</b>	Enrollment Based
6455	1 1/2 units (Full year, 10 hrs per week) 10, 11, 12

**Prerequisite – None**

All students will experience Front of the House operations, Barista training, and Contemporary Farm to Table food production and menu development. In addition, students will be immersed in marketing and promotion, as well entrepreneurial activities. The course is held two evening per week, Tuesday from 3:30pm – 7:00pm and Wednesday from 3:30pm - 10:00pm. This course can be repeated for credit. District transportation is provided to The Center for Academic Achievement for culinary program classes offered during regular school hours, but transportation is not provided for evening classes. Students will receive ProStart National Certificate of Achievement (COA) upon successful completion of the ProStart examination.

<b>TABLE SERVICE INTERNSHIP (CAA)</b>	Enrollment Based
6460	1/2 unit (1 semester, 9hrs/week) 10, 11, 12

**Prerequisite – None**

This class is a participative hands-on learning educational initiative in the Restaurant and Hospitality Industry. This "On The Job Training Internship" is available for any Shawnee Mission School District student that has an interest in acquiring employability and soft skills in the restaurant industry. Students will engage in all aspects of food and beverage service, table service, customer service, and Barista applications. Students receive all gratuities for service efforts throughout the course. The course is held two evenings per week, Tuesday from 4:00pm – 7:00pm (contingent upon special events) and Wednesday from 4:00pm - 10:00pm (contingent on reservations). This course can be repeated for credit. Students will receive ProStart National Certificate of Achievement (COA) upon successful completion of the ProStart examination. **District transportation is not provided to Center for Academic Achievement for evening classes.**

Event gratuity is shared with all student participants.

## FAMILY AND CONSUMER SCIENCE

### FASHION, APPAREL, INTERIOR DESIGN COURSES

<b>APPAREL PRODUCTION 1</b>	Enrollment Based
6390	9, 10, 11, 12
<i>1/2 Unit</i>	

**Prerequisite – Fashion Apparel and Interior Design Essentials**

This course introduces students to the apparel and textile industry in the areas of design, textiles and apparel construction. Students will be able to demonstrate foundational knowledge and skills of equipment and procedures used in fashion and apparel. Emphasis will be placed on students applying these design and engineering skills to create and produce products. Course cost is determined by projects chosen by the student.

<b>APPAREL PRODUCTION 2</b>	Enrollment Based
6391	10, 11, 12
<i>1/2 Unit</i>	

**Prerequisite – Apparel Production 1**

This course expands on student's learning from Apparel Production 1. Students will explore many aspects of the fashion design field through training in fashion illustration, design, pattern drafting and garment construction. Creative expression and preparation of a portfolio is emphasized throughout the program. Course cost is determined by projects chosen by the student. Credit may be applied toward the minimum fine arts graduation requirement.

<b>FASHION, APPAREL AND INTERIOR DESIGN ESSENTIALS</b>	Enrollment Based
6383	9, 10, 11, 12
<i>1/2 unit</i>	

**Prerequisite – None**

This course introduces students to the world of interior and fashion design, familiarizing them to the background and knowledge needed to develop a career in this field. Students will learn and apply how color, composition, and texture can effect great aesthetics. This course counts as a fine arts credit. There is a class fee of \$10.

<b>FASHION, APPAREL AND INTERIOR DESIGN STUDIO (FAID)</b>	Enrollment Based
6313	11, 12
<i>1 unit</i>	

**Prerequisite – Apparel Production 2, Interior Design or Fashion Merchandising**

This application level course provides students the opportunity to expand knowledge and experience with advanced design concepts. Topics will include the industry standards, material and processes used to apply the design elements and principles based upon designers, periods and styles. As students advance and become more adept, the instruction regarding the creative process becomes more refined and students are encouraged to develop their own design styles to meet the needs of a client. Students will receive the opportunity to shadow industry experts related to their career interests outside of school. Through these shadowship experiences, students will have the opportunity to observe what the day-to-day is like in their career interest area. Credit may be applied toward the minimum fine arts graduation requirement.

<b>FASHION MERCHANDISING</b>	Enrollment Based
6310	10, 11, 12
<i>1/2 unit</i>	

**Prerequisite – Fashion, Apparel and Interior Design Essentials**

This course centers upon the merchandising of interior and textile products in a variety of settings. Topics include exploring cycles, trends and style as well as the techniques in coordination, promotion, display and sales of interior and textile items. Basic management and entrepreneurship will be introduced as will the relationship of the skills to set and exhibit design. This course counts as a fine arts credit.

<b>INTERIOR DESIGN</b>	Enrollment Based
6312	10, 11, 12
<i>1/2 unit</i>	

**Prerequisite – Fashion, Apparel and Interior Design Essentials**

An application level course designed to instruct students in the skills necessary to design interior spaces that apply design elements and principles to spaces for residential and special needs (e.g. single family homes, multi-family structures, homes for special needs, child care centers, retirement homes, etc.). Topics will include meeting client' needs, career opportunities, and current and future trends in the industry. Meets fine arts requirement. Course cost \$10.00.

### TEACHING AND TRAINING COURSES

<b>CHILD DEVELOPMENT AND HUMAN GROWTH</b>	Enrollment Based
6491	10, 11, 12
<i>1/2 unit</i>	

**Prerequisite – None**

Students are introduced to child development theory. Concepts covered include parenting, guidance, prenatal/postnatal care, as well as physical, emotional, social and intellectual growth, and development from infancy to adolescence. Course content will reinforce student skills in communication, resource management, and problem solving.

# INDUSTRIAL TECHNOLOGY

## SMSD CTE Pathways

<b>Pathway: Mobile Equipment Maintenance</b>	<b>Strand: Auto Tech</b>
<b>Intro Level</b>	Projects in Industrial Tech (taken in middle school)
	Intro to Business (0.5)
	Automotive Essentials (0.5)
<b>Technical Level</b>	Automotive Technology 1 (1.0)
	Entrepreneurship (0.5)
<b>Application Level</b>	Automotive Technology 2 (1.0)
	Automotive Technology 3 (1.0)

**AUTOMOTIVE ESSENTIALS** Enrollment Based  
 6601 1 unit 10,11,12

**Prerequisite – None**

This course is taught at SM East, SM North, and SM West. Students will learn basic skills and knowledge needed to own and maintain a vehicle. Topics include vehicle safety, purchasing a vehicle, recommended maintenance, vehicle upkeep, and roadside emergency procedures. Students provide transportation to school site. This course is recommended for all students who currently own or plan to own their own vehicle.

**AUTOMOTIVE TECHNOLOGY 1** Enrollment Based  
 6602 1 unit 11,12

**Prerequisite –Focus on Foods**

This course is taught at SM East, SM North, and SM West. This course is a technical-level course designed to provide students with basic theories and information needed to develop an understanding of automotive and light truck vehicles. Topics include shop operations and safety, engine repair, drive train, suspension and steering, brakes, electrical systems, heating and air conditioning, and engine performance. Hands-on services experience is included. Students provide transportation to school site. Course cost is determined by projects chosen by students.

**AUTOMOTIVE TECHNOLOGY 2** Enrollment Based  
 6603 1 unit (2-hour block per semester) 12

**Prerequisite – Automotive Technology 1**

This course is taught at SM East, SM North, and SM West. The course is designed to provide students with the knowledge and skills for the operation of automotive equipment for automotive and light truck service. Advanced study in the areas of shop operations and safety, engine repair, drive train, suspension and steering, brakes, electrical systems, heating and air conditioning, engine performance, and alternative energy. Students provide transportation to school site. Course cost determined by projects chosen by student.

**AUTOMOTIVE TECHNOLOGY 3** Enrollment Based  
 6604 1 unit (2-hour block per semester) 12

**Prerequisite – Automotive Technology 1**

This course is taught at SM East, SM North, and SM West and provides further study in the area of automotive equipment. Students will have the opportunity to

diagnose and repair automobiles and light trucks. Students are prepared for entry-level employment or post-secondary education. Students provide transportation to school site. Course cost is determined by projects chosen by students.

**COMPUTER-AIDED MANUFACTURING** Enrollment Based  
 6703 1 unit 12

**Prerequisite – Wood Design and Fabrication**

This advanced course builds on knowledge and skills learned in Wood Design and Fabrication. Students will incorporate Computer Numerical Control (CNC) techniques and procedures in their project design and construction. Safety practices are emphasized. Course costs determined by projects chosen by the student and approved by the instructor. Credit may be applied toward the minimum fine arts graduation requirement.

**DESIGN 1, COMPUTER-AIDED ARCHITECTURAL** Enrollment Based  
 6759 1 unit 10,11,12

**Prerequisite – Introduction to Computer-Aided Design or Introduction to Engineering Design**

Students study the planning and design of residential and light commercial buildings. Students use computer-aided design software to create plans and construct architectural details. Course cost determined by projects chosen by student. Credit may be applied toward the minimum fine arts graduation requirement.

**DESIGN 2, COMPUTER-AIDED ARCHITECTURAL** Enrollment Based  
 6761 1 unit 11,12

**Prerequisite – Design 1, Computer-Aided Architectural**

Students will study advanced planning, research, design, project management, and “green design” skills for residential and light commercial buildings. Students use computer-aided design software to create plans and construct architectural details. Course cost determined by projects chosen by student. Credit may be applied toward the minimum fine arts graduation requirement.

# INDUSTRIAL TECHNOLOGY

## SMSD CTE Pathways

<b>Pathway: Design/Construction/Manufacturing</b>	<b>Strand: Welding</b>
<b>Intro Level</b>	Projects in Industrial Tech (taken in middle school)
	Intro to Welding (0.5)
<b>Technical Level</b>	Welding 1 (1.0)
	Metal Production (1.0)
<b>Application Level</b>	Welding 2 (1.0)
	Interior Design (0.5)

**DESIGN, COMPUTER-AIDED INDUSTRIAL** Enrollment Based  
6757 1 unit 10,11,12

**Prerequisite – Design 1, Introduction to Computer-Aided Design or Introduction to Engineering Design**

Students will use advanced applications in computer-aided design to solve problems in mechanical, architectural, and civil design. Students will use advanced software to construct 3-D models and render using material textures. Course cost is determined by projects chosen by student. Course may qualify for JCCC advanced standing credit. Credit may be applied toward the minimum fine arts graduation requirement.

**DESIGN, INTRODUCTION TO COMPUTER-AIDED** Enrollment Based  
6755 1 unit 9,10,11,12

**Prerequisite – None**

Drafting techniques are the foundation for most of the design generated in business and industry today, from manufacturing and architectural design to fashion design. Students will be introduced to the basic principles of mechanical and computer-aided design. Course cost determined by projects chosen by student. Credit may be applied toward the minimum fine arts graduation requirement.

**ROBOTICS** Enrollment Based  
6773 1 unit 10,11,12

**Prerequisite – None**

This course teaches students the engineering/design process to introduce students to the many facets of robotics through research, projects and hands-on robot development using a variety of different platforms. Students progress at their own pace, while studying and performing tasks independently and in small groups. Students will also learn to program complex systems to perform a variety of interesting and useful tasks for competition.

**INTRODUCTION TO ENGINEERING DESIGN** Enrollment Based  
6769 1 unit 9,10,11,12

**Prerequisite – Completion of or concurrent enrollment in Algebra 1**

This course will focus on the process of design, development, analysis, and evaluation of products. Students will learn to apply the design process as it relates to invention and innovation. Among the skills that students will develop are sketching and the use of 3D modeling software. Emphasis is placed on

teamwork and communication. Credit may be applied toward the minimum fine arts graduation requirement. This course is taught at all five high schools. Additional engineering courses may be taken in the Engineering (PLTW) Signature Program.

**PRINCIPLES OF ENGINEERING H** Enrollment Based  
6784 1 unit 10,11,12

**Prerequisite – Introduction to Engineering Design or Design 1, Introduction to Computer-Aided Design, concurrent enrollment in science, completion of or concurrent enrollment in Geometry or teacher recommendation**

Students study the fields of Engineering and Engineering Technology. Students will learn to solve problems related to simple machines, fluid power, electricity, structures and materials, and trajectory motion. Projects are integrated into all units of study. This course is taught at all five high schools. Additional engineering courses may be taken in the Engineering (PLTW) Signature Program.

**METAL PRODUCTION (SMW)** Enrollment Based  
6927 1 unit 9,10,11,12

**Prerequisite – None**

This course is recommended for students interested in pursuing more advanced training in the area of welding and manufacturing. Students will study metal fabrication and mass production through research, design, processes, and projects. Students will learn metal production techniques using hand and power equipment. Safety practices are emphasized. This class is taught at SM West. Students provide transportation to SM West. Course cost is \$25.00. Additional costs may be incurred depending upon student-selected projects.

**WELDING, INTRODUCTION TO (SMW)** Enrollment Based  
6896 1/2 unit 10,11,12

**Prerequisite – None**

This is an introductory level welding course designed to instruct students in the basic principles and applications of welding in addition to safety and machine processes. The hands-on course will challenge students to apply creativity as well as technical ability. Course cost is \$15.00. Additional costs may be incurred depending upon student-selected project. This course is offered only at SM West. Students must provide transportation to SM West.

## INDUSTRIAL TECHNOLOGY

<b>WELDING 1 (SMW)</b>		Enrollment Based
6897	<i>1 unit</i>	<i>11,12</i>

**Prerequisite – Welding, Introduction to or Metal Production or Welding teacher approval**

In this course students will study welding processes and mass production through research, design, and welding principles and techniques. Equipment and safety practices are emphasized. This class is taught at SM West. Course cost is \$50.00. Additional costs may be incurred depending upon student-selected projects. Credit may be applied toward the minimum fine arts graduation requirements.

<b>WELDING 2 (SMW)</b>		Enrollment Based
6898	<i>1 unit</i>	<i>12</i>

**Prerequisite – Welding 1**

This course provides students with an opportunity to advance their skills in all areas of welding processes. Students will learn the welding craft based on industry-standard competencies. This class is taught at SM West. Students provide transportation to SM West. Course cost is \$50.00. Additional costs may be incurred depending upon student-selected projects.

<b>WOOD DESIGN 1</b>		Enrollment Based
6908	<i>1 unit</i>	<i>9,10,11,12</i>

**Prerequisite – None**

Students study wood technology processes and fabrication in a laboratory experience through the use of hand and power equipment. This course is recommended for students interested in pursuing more advanced training in the Design and Fabrication program. Course cost is determined by projects chosen by the student.

<b>WOOD DESIGN 2</b>		Enrollment Based
6905	<i>1 unit</i>	<i>10,11,12</i>

**Prerequisite – Wood Design 1**

Students will study wood fabrication and mass production through research, design, processes, and projects. Students will apply advanced techniques throughout the course. Safety practices are emphasized. Course cost determined by projects chosen by student and approved by the instructor. Credit may be applied toward the minimum fine arts graduation requirement.

<b>WOOD DESIGN AND FABRICATION</b>		Enrollment Based
6895	<i>1 unit</i>	<i>11,12</i>

**Prerequisite – Wood Design 2**

This course will enable students to further their knowledge, concepts, and skills in woodworking and mass production. It will provide an opportunity to design, plan, and construct cabinetry and furniture. Safety practices are emphasized. Course cost is determined by the project chosen by student and approved by instructor. Credit may be applied toward the minimum fine arts graduation requirement.

# MATHEMATICS

## SMSD CTE Pathways

<b>Pathway: Information Technology</b>	<b>Strand: Programming &amp; Software Development</b>
<b>Intro Level</b>	Computer Dimensions 2 (taken in middle school) <u>or</u> Microsoft Business Applications (0.5)
<b>Technical Level</b>	Intro to Computer Programming (0.5)
	Computer Science Principles PLTW (1.0)
<b>Application Level</b>	AP Computer Science A (1.0)
	Advanced Programming Concepts (1.0)

**USE OF CALCULATORS:** Graphing calculators are used in all mathematics courses at the level of Algebra 1 and above. Classroom sets of calculators are available for use at school, but it is advantageous for each student to have a calculator available at home for completing homework assignments. Students enrolling in Algebra 2 are encouraged to purchase a graphing calculator for use in the course as well as subsequent courses. The model being used for classroom demonstration is the TI-83/84. If the purchase of a graphing calculator is a hardship, a limited supply is available upon request through your mathematics teacher and/or building administrator.

<b>ALGEBRA 1</b>		Enrollment Based
2050	1 unit	9,10,11,12
<b>Prerequisite – None</b>		

Students develop knowledge in mathematics through work with linear expressions and equations. Essential topics include interpreting quantities and rates, functions and function, rational exponents, quadratic relationships, and using regression techniques to describe relationships between data sets. Application and reasoning are emphasized.

<b>ALGEBRA 2</b>		Enrollment Based
2060	1 unit	9,10,11,12
<b>Prerequisite – Geometry 2110, 2114 or teacher recommendation</b>		

Students apply and extend their understanding of functions. Essential topics include quadratics, polynomials, logarithms, trigonometry, and statistics. This course will prepare students for College Algebra/Trig.

<b>ALGEBRA 2 H</b>		Enrollment Based
2064	1 unit	9,10,11,12
<b>Prerequisite – Geometry 2110 with teacher recommendation only, or Geometry 2114 H with a grade of “B” or better or teacher recommendation, or concurrent enrollment in Geometry Honors with administrator approval</b>		

Students will apply and extend their understanding of functions. Students are expected to master the topics of Algebra 2 as listed under course 2060 with more emphasis on the relationships between quadratic, polynomial, and rational functions as well as trigonometry.

<b>ALGEBRA 3</b>		Enrollment Based
2190	1 unit	11,12
<b>Prerequisite – Algebra 2</b>		

This course is designed to review and extend skills and concepts from Algebra 2. Some content included in College Algebra/Trig (such as trigonometric functions and analytic geometry) is included, but at a less rigorous level. A student who has received credit in College Algebra/Trig or higher has completed the content of Algebra 3 and may not enroll in this course without prior teacher recommendation.

<b>CALCULUS AB AP</b>		Enrollment Based
2161 AP	1 unit	11,12
<b>Prerequisite – College Algebra/Trig or Precalculus H</b>		

The topics in Calculus AB/AP will be learned in depth with more time (two semesters) to develop the concepts. Review of functions will be included. Students enrolled in this course may be eligible for JCCC credit (College Now).

<b>CALCULUS BC AP</b>		Enrollment Based
2062 AP	1 unit	11,12
<b>Prerequisite – Precalculus H</b>		

The content of the course includes both differential and integral calculus. Topics covered include: differentiation of algebraic functions, trigonometric functions, logarithmic and exponential functions, anti-differentiation, the definite integral and polar coordinates. Students enrolled in this course may qualify for college credit at JCCC (College Now).

<b>CALCULUS 3 H</b>		Enrollment Based
2202 H	1 unit	12
<b>Prerequisite – Calculus BC AP</b>		

This is the third course in a three semester sequence on analytic geometry and calculus. Topics include vector-valued functions, functions of several variables, multiple integration, vector analysis, and matrices and linear algebra.

# MATHEMATICS

<b>COLLEGE ALGEBRA / TRIG</b>	Enrollment Based
2152	10,11,12
1 unit	

**Prerequisite – Algebra 2 (A grade of “B” or better in Algebra 2 is strongly recommended)**

Students apply and extend their understanding of trigonometric, logarithmic and exponential functions. Essential topics include matrices, vectors, polar coordinates and equations, properties of trigonometric functions and conics. This course will prepare students for Calculus AB AP. This course may qualify for JCCC Quick Step Plus credit.

<b>CONSUMER MATH AND FINANCE</b>	Enrollment Based
2195	11,12
1 unit	

**Prerequisite – Geometry or teacher recommendation**

Students will acquire the skills to make informed decisions about money management, earning income, savings and investments, and spending and credit. This course is aligned to the national standards for personal financial literacy. Students may take this course to meet the Financial Literacy graduation requirement.

<b>DIFFERENTIAL EQUATIONS H</b>	Enrollment Based
2203 H	12
1/2 unit	

**Prerequisite – Calculus 3 H with a “B” or better**

This course will cover standard types of ordinary differential equations, solutions by series, Laplace transformations, numerical solutions, and applications.

<b>DISCRETE MATHEMATICS</b>	Enrollment Based
2176 H	10,11,12
1/2 unit	

**Prerequisite – Algebra 2**

Topics include graph theory, counting, recursion, matrices, and social decision-making. The applications for these concepts and their relationship to business, planning, and management will be explored. A student may take this course in conjunction with additional math courses beyond Algebra 2.

<b>GEOMETRY</b>	Enrollment Based
2110	9,10,11,12
1 unit	

**Prerequisite – Algebra 1**

Students develop knowledge in mathematics through work around congruence and similarity. Essential topics include proofs of geometric theorems, constructions, introduction to trigonometry, working with circles, and conditional probability. Application and modeling are emphasized.

<b>GEOMETRY H</b>	Enrollment Based
2114 H	9,10,11,12
1 unit	

**Prerequisite – Algebra 1 with a “B” or better and teacher recommendation.**

Topics include graph theory, counting, recursion, matrices, and social decision-making. The applications for these concepts and their relationship to business, planning, and management will be explored. A student may take this course in conjunction with additional math courses beyond Algebra 2.

<b>INTEGRATED ALGEBRA / GEOMETRY 1</b>	Enrollment Based
2054	9
1 unit	

**Prerequisite – None**

Students develop knowledge in mathematics through work with linear expressions, equations, and functions. Students apply and extend their knowledge of these algebraic concepts within the geometric concepts of congruence, similarity, parallel and perpendicular lines. Application, modeling, and reasoning are emphasized. This course is designed for students who would benefit from an alternative approach to success in acquiring mathematical skills and concepts.

<b>INTEGRATED ALGEBRA / GEOMETRY 2</b>	Enrollment Based
2056	9,10
1 unit	

**Prerequisite – Integrated Algebra/Geometry 1**

Students continue to develop knowledge in mathematics through the study of nonlinear algebraic concepts including quadratic relationships, rational exponents, and regression techniques. Students will apply and extend their knowledge of algebra with the integrated study of geometric concepts including an introduction to trigonometry, proofs and theorems, and circles. Conditional probability and data sets are explored. This course is designed for students who would benefit from an alternative approach to success in acquiring mathematical skills and concepts.

<b>INTERMEDIATE ALGEBRA</b>	Enrollment Based
2070	10,11,12
1 unit	

**Prerequisite – Geometry**

This course introduces fundamental Algebra 2 concepts. Essential topics include complex numbers, arithmetic operations with polynomials, solving rational and radical equations, and using statistics to make inferences.

<b>MATHEMATICS EXTENSION</b>	Enrollment Based
2012	9,10,11,12
1/2 unit	

**Prerequisite – Teacher recommendation**

This course is designed for students who need additional support for success in acquiring mathematical skills and concepts. Course instruction uses prescriptive lessons to improve student understanding of math principles. This course may be repeated for credit. One-half unit of credit may be applied toward the minimum graduation requirements in mathematics.

<b>MATHEMATICS – INDEPENDENT STUDY</b>	Enrollment Based
2211	9,10,11,12
1/2 unit	

**Prerequisite – Teacher recommendation**

This course is a study of mathematics beyond that normally offered in the regular courses. This course is repeatable.

<b>PRECALCULUS H</b>	Enrollment Based
2154 H	10,11,12
1 unit	

**Prerequisite – Algebra 2 H with a “B” or better**

This course is designed to prepare the student for a full year’s study of Calculus BC H/AP. Topics include algebraic functions and their graphs,

# MATHEMATICS

transcendental functions, analytic trigonometry with applications, vectors, matrices, and analytic geometry. Students enrolling in the course may qualify for JCCC credit (College Now).

ACT/SAT PREPARATION		Enrollment Based
9937	1/2 unit	10,11,12
Prerequisite – None See page 65		

STATISTICS		Enrollment Based
2242	1/2 unit	10,11,12
Prerequisite – Algebra 2		

Content includes the elementary principles of probability and statistics and their application in the study of problems arising in the analysis of experimental data. The course is designed for students interested in math, science, business, economics, and/or social science. A student may take this course in conjunction with additional math courses beyond Algebra 2.

STATISTICS AP PLUS		Enrollment Based
2247 AP	1 unit	10,11,12
Prerequisite – Algebra 2 with a “B” or better		

Content listed for course 2242 will be covered in this course, with additional problems and projects related to the field of engineering or scientific applications pertinent to research. Discrete topics will include counting methods, probability, and discrete random variable distributions. Students will also use simulations to model data. Students who have received a full credit for Statistics may not take the 1/2 credit Statistics course. Students enrolling in the course may qualify for JCCC credit (College Now).

INDIVIDUAL GOALS - MATH		Enrollment Based
0218 / 0219	1 unit / 1/2 unit	9

0213 / 0216	1 unit / 1/2	10
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0214 / 0217	1 unit / 1/2	11
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0215 / 0220	1 unit / 1/2	12
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Prerequisite – IEP team recommendation

Enrollment in the course is determined by the Individual Education Plan team. The team will base recommendations on individual student need and state requirements. Credit in this course may be applied toward the minimum graduation requirement in math.

## COMPUTER SCIENCE

INTRODUCTION TO COMPUTER PROGRAMMING		Enrollment Based
2033	1/2 unit	9,10,11,12
Prerequisite – Algebra 1 or concurrent enrollment in Algebra 1		

This course provides an introduction to the use of computer programming as a problem-solving tool. The fundamentals of computer programming are the focus of the course. Students will receive an overview of current topics in computer science such as the capabilities of different programming languages

and the significance of computer programming in today's society. Introduction to Computer Programming is not a prerequisite for Programming in Java, but it is recommended for students with little programming background. Credit in this course may not be applied toward minimum graduation requirements in mathematics but may be used to meet elective requirements.

COMPUTER SCIENCE PRINCIPLES (CSP) H		Enrollment Based
2216 H	1 unit	9,10,11,12
Prerequisite – None		

Computer Science Principles (CSP) is a new PLTW course that will be offered at all five high schools. In this course, students work in teams to develop computational thinking and problem solving skills. The course covers the College Board's new CS Principles framework. The course also aims to build students' awareness of the tremendous demand for computer specialists and for professionals in all fields who have computational skills. Students create apps for mobile devices, automate tasks in a variety of languages, find patterns in data, and interpret simulations. Students also collaborate to create and present solutions that can improve people's lives. Students enrolling in the course may qualify for JCCC credit (College Now).

COMPUTER SCIENCE A AP		Enrollment Based
2096 AP	1 unit	10,11,12
Prerequisite – Computer Science Principles (CSP), Algebra 2 or concurrent enrollment in Algebra 2		

Prerequisite – Computer Science Principles (CSP), Algebra 2 or concurrent enrollment in Algebra 2

This is a highly technical course in which students learn to apply a wide variety of advanced computer science principles (CSP). Students enrolled in this course may qualify for college credit at JCCC (College Now).

ADVANCED PROGRAMMING CONCEPTS H		Enrollment Based
2097	1 unit	11,12
Prerequisite – AP Computer Science A		

Prerequisite – AP Computer Science A

This course develops skills that builds upon concepts previously acquired through the AP Computer Science A course. Objectives of the course include: Data Structures (Binary Trees, Linked lists, Stacks, queues, etc.), Methods of Advanced Algorithms (sorting, searching, and filtering), Object Characteristics, and Advanced Graphics Techniques. Students will also have the opportunity to enhance their employability skills by applying Common Sector Workplace Competencies, setting the stage for possible internship opportunities in the 2nd semester of the course. To be eligible for internship opportunities, students will go through an application process.

COMPUTER SCIENCE – INDEPENDENT STUDY		Enrollment Based
2101	1/2 unit	10,11,12
Prerequisite – Teacher recommendation		

Prerequisite – Teacher recommendation

This course is a study of computer science beyond that normally offered in the regular course. Students work on individual projects with a selected teacher.

## MUSIC / PERFORMING ARTS

### BAND Enrollment Based 9,10,11,12

7188	1/2 unit	<i>Band</i>
7195	1/2 unit	<i>Concert</i>
7196	1/2 unit	<i>Freshman</i>
7197	1/2 unit	<i>Marching</i>
7198	1/2 unit	<i>Symphonic</i>
7199	1/2 unit	<i>Wind Ensemble</i>

#### Prerequisite – Placement by teacher

Band is a general title for the several different bands (marching and concert). These bands vary according to size, musical development of students, and difficulty of music literature performed. Students should enroll for band without reference to a specific band class. The band director will place students in the proper band after completing the audition procedure. Course may be repeated, provided students enroll in consecutive semesters of band, for a maximum of 4 units of credit except for Band-Freshman. Exceptions will be made at the discretion of the director.

### CHOIR Enrollment Based 9,10,11,12

7116	1 unit	<i>Choir</i>
7117	1 unit	<i>A Cappella</i>
7119	1 unit	<i>Men</i>
7120	1 unit	<i>Women</i>

#### Prerequisite – Placement by teacher

Choir is a general title for the several levels of choir for mixed voices (men and women). These choirs vary according to size, musical development of students, and difficulty of music literature performed. Students should enroll in choir without reference to a specific choir class. The choir teacher will place students in the proper choir after enrollment has been completed. Course may be repeated for a maximum of 4 units of credit.

### CHOIR – CHAMBER SINGERS Enrollment Based 9,10,11,12

#### Prerequisite – Placement by teacher

Chamber Choir is a select vocal music group. Ensemble performance of the highest level is expected. Multiple performances throughout the school year will take place in a variety of venues. Students should be a member of another regular choral class.

### CHOIR – MEN SELECT Enrollment Based 9,10,11,12

#### 7129 1/2 unit

#### Prerequisite – Placement by teacher

Men Select choir is a vocal music instruction and performance group for men grades 9-12. Course may be repeated.

### CHOIR – WOMEN SELECT Enrollment Based 9,10,11,12

#### 7130 1/2 unit

#### Prerequisite – Placement by teacher

Women Select choir is a vocal music instruction and performance group for women grades 9-12. Course may be repeated.

### CHORAL ENSEMBLE Enrollment Based 9,10,11,12

#### 7113 1 unit

#### Prerequisite – Placement by teacher

Choral ensembles are small, select musical groups. Ensemble performance of the highest level is expected.

### GUITAR Enrollment Based 9,10,11,12

#### 7240 1/2 unit

#### Prerequisite – None

Music fundamentals, chords and chordal structure, and progressions, as well as melody playing are studied. Students furnish their own guitar as specified by the teacher. Instrument required. Course may be repeated for credit.

### INSTRUMENTAL ENSEMBLE Enrollment Based 9,10,11,12

#### 7185 1/2 unit

#### Prerequisite – Placement by teacher

This course number is available for teachers and counselors for unique and special groups of instruments and/or other instruments that do not organizationally fit within any of the other classifications.

### JAZZ ENSEMBLE 1 Enrollment Based 9,10,11,12

#### 7253 1 unit

#### Prerequisite – Placement by teacher

Students will have an initial exposure to playing jazz and improvisation techniques. Students must be members of another regular band class or orchestra class.

### JAZZ ENSEMBLE 2 Enrollment Based 11,12

#### 7252 1 unit

#### Prerequisite – Teacher recommendation

Students will perform jazz and stage band music and continue improvisation technique. Students must be members of another band class or orchestra class.

## MUSIC / PERFORMING ARTS

<b>MUSIC – INDEPENDENT STUDY</b>	Enrollment Based
7291 <span style="float: right;">1/2 unit</span>	9,10,11,12

**Prerequisite – Teacher recommendation**

Students work on individual projects with a selected music teacher. This course is repeatable.

<b>MUSIC THEORY H</b>	Enrollment Based
7271 <span style="float: right;">1 unit</span>	11,12

**Prerequisite – Ability to read music and teacher recommendation**

Students learn basic fundamentals of harmonic techniques, interval recognition, melodic and simple harmonic dictation, simple keyboard harmony, and elements of composing. A survey is made of music history and music literature. The course is college preparatory for a student intending to major in music. Successful completion of the course may allow the student an advanced placement standing in college music theory courses.

<b>MUSIC – VOICE TECHNIQUE</b>	Enrollment Based
7320 <span style="float: right;">1/2 unit</span>	9,10,11,12

**Prerequisite – None**

This course provides a group approach to studying voice. Students will be developing and extending vocal skills through voice exercises and related activities. Many students will be developing skills as soloists. The course does not require performances.

<b>ORCHESTRA</b>	<i>Enrollment Based</i>
	<i>9,10,11,12</i>

7161	1 unit	<i>Orchestra</i>
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7164	1 unit	<i>Chamber</i>
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7165	1 unit	<i>Symphonic</i>
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7166	1 unit	<i>String Ensemble</i>
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**Prerequisite – Placement by teacher**

Orchestra is a general title for several different orchestras. These orchestras vary according to size, musical development of students, and type of music literature performed. Students should enroll for orchestra without reference to a specific orchestra class. The orchestra teacher will place students in the proper orchestra. Course may be repeated for a maximum of 4 units of credit.

<b>INDIVIDUAL GOALS – FINE ARTS</b>	Enrollment Based
0508 <span style="float: right;">1 unit</span>	9,10,11,12

**Prerequisite – IEP team recommendation**

The student's IEP will require enrolling in this course to meet Kansas extended standards and graduation requirements.

## PHYSICAL EDUCATION AND HEALTH

<b>AEROBICS AND FITNESS</b>	Enrollment Based
8060 <span style="float: right;"><i>1/2 unit</i></span>	<i>9, 10, 11, 12</i>

**Prerequisite – None**

Aerobics refer to exercises that stimulate heart and lung activity for a long enough period of time to produce beneficial changes in the body. Aerobic exercise and conditioning may include: jogging, swimming, water aerobics, weight lifting, aerobic dance, step aerobics, and other general conditioning activities.

<b>AQUATICS</b>	Enrollment Based
8057 <span style="float: right;"><i>1/2 unit</i></span>	<i>9, 10, 11, 12</i>

**Prerequisite – None**

This course includes basic swimming stroke instruction, conditioning through lap swimming and water exercise, basic water and diving safety, water games, and competitive swimming instruction.

<b>DANCE</b>	Enrollment Based
8171 <span style="float: right;"><i>1/2 unit</i></span>	<i>9, 10, 11, 12</i>

**Prerequisite – None**

Students participate in and perform specific dance routines and choreography including: ballet, jazz, tap, aerobics, ballroom, line, modern and cheer. Credit may be applied toward the minimum fine arts graduation requirement. This course may be taken for a maximum of 4 units.

<b>FOUNDATIONS OF PHYSICAL EDUCATION</b>	Enrollment Based
8032 / 8034(G) <span style="float: right;"><i>1/2 unit</i></span>	<i>9, 10, 11, 12</i>

**Prerequisite – None**

The course is a required course for graduation and has been designed to follow the NASPE (National Association of Sports and Physical Education) standards. Units will include: individual, dual, and team sports, fitness based activities, rhythmic activities, and aquatics. Other activities may be included as per the district curriculum. See graduation requirements.

<b>GYMNASTICS</b>	Enrollment Based
8141 <span style="float: right;"><i>1/2 unit</i></span>	<i>9, 10, 11, 12</i>

**Prerequisite – None**

Students learn beginning, intermediate, and advanced skills and techniques in gymnastics, including tumbling, floor exercise, and apparatus (Girls - balance beam, uneven bars, and vault; Boys - pommel horse, high bar, parallel bars, and rings).

<b>HEALTH EDUCATION</b>	Enrollment Based
9220 <span style="float: right;"><i>1/2 unit</i></span>	<i>9, 10</i>

**Prerequisite – None**

This course curriculum includes content in the areas of mental health, human growth and development, addictions, fitness for life, disease prevention, nutrition, personal relationships, and abstinence-based human sexuality. See graduation requirements. This course may also be taken through eSchool.

<b>LIFETIME SPORTS</b>	Enrollment Based
8160 <span style="float: right;"><i>1/2 unit</i></span>	<i>9, 10, 11, 12</i>

**Prerequisite – None**

Students learn team and individual sports that will be available to them as adults. Activity areas include: bowling, shuffleboard, table tennis, fencing, tennis, badminton, basketball, volleyball, jogging, handball, swimming, golf, and archery. These activities will be divided in various combinations throughout the semester.

<b>TEAM GAMES</b>	Enrollment Based
8230 <span style="float: right;"><i>1/2 unit</i></span>	<i>9, 10, 11, 12</i>

**Prerequisite – None**

Students participate in various team games and activities including volleyball, basketball, soccer, water polo, team handball, speedball, and lead-up games.

<b>WEIGHT TRAINING</b>	Enrollment Based
8256 / 8057(G) <span style="float: right;"><i>1/2 unit</i></span>	<i>9, 10, 11, 12</i>

**Prerequisite – None**

This course is to further the individual development in weight training and conditioning. Techniques of weight lifting and increasing strength and endurance will be covered. This course may be taken for a maximum of 4 units.

<b>INDIVIDUAL GOALS - HEALTH</b>	Enrollment Based
0502 <span style="float: right;"><i>1/2 unit</i></span>	<i>9, 10, 11, 12</i>

**Prerequisite – IEP team recommendation**

Enrollment in this course is determined by the Individual Education Plan team. The team will base recommendations on individual student need and state requirements. Credit in this course may be applied toward the minimum graduation requirement in health.

<b>LIFETIME FITNESS</b>	Enrollment Based
ES8165 <span style="float: right;"><i>1/2 unit</i></span>	<i>9, 10, 11, 12</i>

**Prerequisite – None**

Exploring fitness topics such as safe exercise and injury prevention, nutrition and weight management, consumer product evaluation, and stress management, this course equips high school students to assess individual fitness levels according to the five components of physical fitness: cardiovascular health, muscular strength, muscular endurance, flexibility, and body composition. Personal fitness assessments encourage students to design fitness programs to meet their individual fitness goals.\*This course does not meet NCAA eligibility requirements

**(G) Designates course for girls only**

# SCIENCE

<b>BIOLOGY 1</b>	Enrollment Based
4130	1 unit laboratory biological science 9

**Prerequisite – None**

This course is designed to develop an understanding of plant and animal systems, environmental relationships, bioenergetics, genetics, and biotechnology. There is an emphasis on scientific problem solving and higher level thinking skills. Goggles are required for safety in the lab and can be ordered through the classroom teacher. Course fee will not exceed \$3.00.

<b>BIOLOGY 1 H</b>	Enrollment Based
4131	1 unit laboratory biological science 9

**Prerequisite – None**

Biology 1 H emphasizes learning biological principles and scientific problem solving through an inquiry approach, open-ended investigations, and independent research. Technology and outside reading of current literature provide additional enrichment. Goggles are required for safety in the lab and can be ordered through the classroom teacher. Course fee will not exceed \$3.00.

<b>BIOLOGY 2 AP</b>	Enrollment Based
4151 AP	1 unit laboratory biological science 10,11,12

**Prerequisite – Biology 1 with “B” or better and previous or concurrent enrollment in Chemistry 1**

This college level course emphasizes a comprehensive understanding of biology through the use of technology, scientific journals, college textbooks, lectures, laboratory investigations, and examinations. Students enrolled in this course may be eligible for JCCC credit (College Now) or Baker University credit. Goggles are required for safety in the lab and can be ordered through the classroom teacher. Course fee will not exceed \$3.00.

<b>BIOTECHNOLOGY, INTRODUCTION TO</b>	Enrollment Based
4154	1/2 unit laboratory biological science 10,11,12

**Prerequisite – Biology**

This course is designed to give students an introduction to biotechnology industry including a description of the science of biotechnology; examples of careers; and job responsibilities associated with biotechnology. Students will gain introductory laboratory experience and biochemistry utilized in the biotechnology industry. Intro to Biotechnology can be taken concurrently with Biotechnology 1.

<b>BIOTECHNOLOGY 1 / SLOP (CAA)</b>	Enrollment Based
4133	1 unit (2-hour block per semester) 10,11,12

*Introduction to Standard Laboratory Operating Procedure, SLOP*

**Prerequisite – Biology 1 with “C” or better and Introduction to Biotechnology or concurrent enrollment**

This course is designed to provide students an authentic laboratory experience. Each student will practice the safe use of laboratory equipment and techniques currently utilized in the “real” biotechnology industry. Students will have many opportunities to apply the laboratory skills techniques and knowledge of scientific process to design authentic scientific research. Critical thinking and communication skills will be developed in order to effectively communicate results of data collection and interpretation. There is a course fee of \$30.00. Biotechnology 1 can be taken concurrently with Intro to Biotechnology.

<b>BIOTECHNOLOGY 2H (CAA)</b>	Enrollment Based
<b>(Recombinant DNA Technology and Protein Production)</b>	

4143	1 unit (2-hour block per semester)	10,11,12
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**Prerequisite – Biotechnology 1 with a grade of A**

Students enrolled in Biotechnology 2 will apply advanced methods of investigation in the biotechnology and bioscience field. Each student will practice advanced techniques in such areas as recombinant DNA technology assay development and production/purification of proteins. The course includes opportunities to tour/job shadow local diagnostic and animal health laboratories. \*Honors credit requirement: participation/presentation of student original experimental research at a minimum of 2 science symposia/competitions/science fairs. There is a course fee of \$30.00.

<b>BIOTECHNOLOGY 3H (CAA)</b>	Enrollment Based
<b>(Agriculture Biotech and Pharmaceuticals)</b>	

4145	1 unit (2-hour block per semester)	11,12
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**Prerequisite – Biotechnology 2 with a grade of A**

In Biotechnology 3H, students will continue to develop advanced methods and techniques used in biotechnology and bioscience academia and industry. Students collaborate with each other and business partners/mentors to develop solutions to global issues including food production, health and environment. Honors credit requirement\* must be met in order to receive honors credit. There is a course fee of \$30.00. **This course is repeatable for credit.**

\*Meet all deadlines and present at 2 research symposia/competitions

<b>CHEMISTRY 1</b>	Enrollment Based
4170	1 unit laboratory physical science 10,11,12

**Prerequisite – Completion of Geometry or teacher recommendation**

Students study the interactions and changes between matter and energy. Laboratory investigations involve the students in scientific problem solving and the inquiry processes of science. Goggles are required for safety in the lab and can be ordered through the classroom teacher. Course fee will not exceed \$3.00.

# SCIENCE

<b>CHEMISTRY 1 H</b>	Enrollment Based
4169      1 unit laboratory physical science	10, 11, 12

**Prerequisite – Completion of or concurrent enrollment in Honors Algebra 2 or teacher recommendation**

Chemistry 1 Honors is an advanced course in which students will investigate the structure, properties and changes that matter undergoes during chemical reactions. Students are instructed in inquiry-based laboratory investigations, the unitization of technology, and free-response writing. This course requires a strong mathematical background and moves at an accelerated pace. Course fee will not exceed \$3.00.

<b>CHEMISTRY 2 AP</b>	Enrollment Based
4183 AP      1 unit laboratory physical science	11, 12

**Prerequisite – Chemistry 1 with “B” or better, Algebra 2 or teacher approval**

Students are prepared for the advanced placement examination through a comprehensive study of chemistry principles with a college textbook, application of higher level mathematics to problems, laboratory investigations, and examinations. Students enrolled in this course may be eligible for JCCC credit (College Now). Goggles are required for safety in the lab and can be ordered through the classroom teacher. Course fee will not exceed \$3.00.

<b>ENVIRONMENTAL EDUCATION 1</b>	Enrollment Based
4252      1 unit laboratory biological science	11, 12

**Prerequisite – None**

This course is designed to develop an understanding of plant and animal systems, environmental relationships, bioenergetics, genetics, and biotechnology. There is an emphasis on scientific problem solving and higher level thinking skills. Goggles are required for safety in the lab and can be ordered through the classroom teacher. Course fee will not exceed \$3.00.

<b>ENVIRONMENTAL EDUCATION 2</b>	Enrollment Based
4321      1 unit laboratory biological science	12

**Prerequisite – Environmental Education 1 with “C” or better or teacher recommendation**

This course provides individuals with an in-depth study of environmental topics. Students explore career and volunteer opportunities in environmental science. Activities include teaching other students about nature and experiencing the daily maintenance of animal facilities and outdoor settings.

<b>ENVIRONMENTAL SCIENCE AP</b>	Enrollment Based
4241 AP      1 unit laboratory biological science	11, 12

**Prerequisite – Biology 1 H, Chemistry**

The intent of this course is to provide students with a perspective on the environment, one that is scientific, and will enable them to adopt an informed and responsive stance on a wide range of environmental issues. Students will develop an understanding of the environment rooted in underlying principles of science. This course acknowledges the value of empirical, quantitative, and objective data in describing and analyzing environmental systems. Students enrolled in this course may qualify for JCCC credit (College Now).

<b>FORENSIC SCIENCE 1</b>	Enrollment Based
4243      1/2 unit science elective	10, 11, 12

**Prerequisite – Biology**

This class is the hands-on application of science to the law. The focus is on problem-solving, designing experiments, and testing and making conclusions based on empirical evidence. Students will be expected to work in teams to theorize, design experiments, research forensic methodologies, synthesize information, and make conclusions based on their own empirical evidence. This course counts towards SMSD science elective credit, but the course is not permitted for use as Kansas Board of Regents Qualified Admission.

<b>FORENSIC SCIENCE 2</b>	Enrollment Based
4245      1/2 unit science elective	10, 11, 12

**Prerequisite – Forensic Science 1**

Case studies are provided for all units, as well as research/analysis completed by students on famous cases. This course furthers students' exploration of how science and inquiry are applied to the criminal justice system. Topics include: crime scene analysis, physical/chemical analysis of evidence, microscopy, chromatography, hair/fiber/glass/document/fingerprint analysis, firearms, drug, toxicology, entomology, anthropology, blood (serology) and DNA analysis. Principal methods of learning include lecture, demonstration, case study analysis, forensic journal reading, forensics competitions, lab activities and experiments. This course will emphasize potential career pathways, critical thinking, problem-solving, observation, data analysis, and data collection, in addition to scientific skills and techniques. This course counts towards SMSD science elective credit, but the course is not permitted for use as Kansas Board of Regents Qualified Admission. We do not go to, or compete in forensics competitions.

<b>GLOBAL ISSUES IN SCIENCE 1</b>	Enrollment Based
4201      1 unit science elective	11, 12

**Prerequisite – Biology 1**

Critical issues about our environment are studied as related to the impact on the planet. Topics include mineral resource use, population growth, infectious disease, genetic engineering, agriculture, land management, and scientific current events with a global impact.

<b>GLOBAL ISSUES IN SCIENCE 2</b>	Enrollment Based
4202      1 unit science elective	11, 12

**Prerequisite – Biology 1/ Global Issues in Science 1**

Critical issues about our environment are studied as related to the impact on the planet. Topics include mineral resource use, population growth, infectious disease, genetic engineering, agriculture, land management, and scientific current events with a global impact.

## SCIENCE

**HUMAN ANATOMY AND PHYSIOLOGY** Enrollment Based  
4410 1 unit laboratory biological science 11,12

**Prerequisite – Biology 1**

Students study the structures, functions, and system interactions of the human body. This is a recommended course for students planning a human health services career. Goggles are required for safety in the lab and can be ordered through the classroom teacher. Maximum course cost is \$10.00.

**METEOROLOGY** Enrollment Based  
4270 1/2 unit physical science 10,11,12

**Prerequisite – None**

This course provides the student with an in-depth study of the processes that govern the earth's climate and weather. Students will examine the properties of the earth's atmosphere and local data will be collected using direct observation and a variety of weather instruments. Topics include atmospheric layering, changing pressures, winds, water vapor, air masses, fronts, temperature changes, and weather forecasting.

**PHYSICAL SCIENCE** Enrollment Based  
4128 1 unit laboratory physical science 10,11

**Prerequisite – None**

This course is a study of fundamental physics and chemistry principles. It provides a foundation for future science courses. Students will be observing, measuring, classifying, interpreting data, using metric measurement, graphing, controlling variables, problem solving, and forming conclusions. Goggles are required for safety in the lab and can be ordered through the classroom teacher. Course fee will not exceed \$3.00.

**PHYSICS 1** Enrollment Based  
4200 1 unit laboratory physical science 10,11,12

**Prerequisite – Geometry**

Physics 1 provides students with the opportunity to understand what causes the motion and energy changes of physical objects and how we can predict how these objects will behave in a given situation. Students will also learn new ways to approaching problems, methods of analyzing situations from different perspectives, and develop their logical abstract thinking skills.

**PHYSICS 1 AP** Enrollment Based  
4204 AP 1 unit laboratory physical science 10,11,12

**Prerequisite – Completion of Pre-Calculus or concurrent enrollment in College Algebra/Trig or Pre-Calculus H or teacher recommendation**

Students study kinematics, Newton's laws of motion, torque, rotational motion, angular momentum, gravitational motion, circular motion, work energy, power, linear momentum, oscillations, mechanical waves, sound and electricity. A college text is used with emphasis on demonstrations, laboratory activities, and problem solving. This course is recommended for students planning science related careers. Students enrolled in this course may be eligible for JCCC credit (College Now). Students in this course also have the opportunity to take the AP Physics 1 algebra-based test.

**PHYSICS 2 AP** Enrollment Based  
4214 AP 1 unit AP Physics 2 11,12

4217 AP 1 unit AP Physics C;Mechanics 11,12

**Prerequisite – Completion of Physics 1H/AP or teacher recommendation**

The Physics 2 AP course follows the curriculum plan of the College Board AP Physics 2 (non-calculus) or AP Physics C: Mechanics (calculus) course. This class is intended as college preparatory physics for students with an anticipated college major in physical science or engineering. Teachers will advise students on selection of appropriate AP exam emphasis.

**SCIENCE – INDEPENDENT STUDY** Enrollment Based  
4301 1/2 unit 9,10,11,12

**Prerequisite – Teacher recommendation**

Students submit a well-defined study or research project in some area of science to the independent study committee for approval to be admitted. The work is done by the students on their own scheduled time with periodic reports and consultations. This course is repeatable.

**ZOOLOGY** Enrollment Based  
4411 1/2 unit biological science 11,12

**Prerequisite – Biology**

Students will examine the diversity of the animal kingdom including the major groups of invertebrates and vertebrates. There is an emphasis on body structures and functions, behaviors, and evolutionary relationships among various phyla. The lab component will allow students to examine differences among animals through activities including dissection. Course cost is \$10.00.

**INDIVIDUAL GOALS - SCIENCE** Enrollment Based  
0501 1 unit lab biological science 9,10,11,12

0506 1 unit lab physical science

0507 1 unit science elective

**Prerequisite – IEP team recommendation**

Enrollment in this course is determined by the Individual Education Plan team. The team will base recommendations on individual student need and state requirements. Credit in this course may be applied toward the minimum graduation requirement in science.



## SOCIAL STUDIES

<b>PRACTICAL LAW</b>		Enrollment Based
6122	<i>1/2 unit</i>	10,11,12

**Prerequisite – Introduction to Public Service or Introduction to the Study of Legal Systems**

Practical Law is the basic study of law and will discuss such topics as constitutional law, criminal law, family law, immigration law, and torts. This course is designed to give a basic understanding of the legal system and gives practical applications in the study of law. This is a required class for continuation in the signature program. This course counts towards SMSD social studies elective credit, but the course is not permitted for use as Kansas Board of Regents Qualified Admission.

<b>PSYCHOLOGY 1</b>		Enrollment Based
3340	<i>1/2 unit</i>	10,11,12

**Prerequisite – None**

This course is an introduction to psychology; the theory, history, and terminology important to a basic understanding of behavior. Students will explore psychological perspectives, the subfields of psychology, and the research methods used by psychologists to explore human behavior and mental processes. Emphasis is placed on life span development, biological basis of behavior, learning, and states of consciousness.

<b>PSYCHOLOGY 2</b>		Enrollment Based
3350	<i>1/2 unit</i>	11,12

**Prerequisite – Psychology 1**

This course will include an in-depth approach to theories of personality, intelligence, motivation, and emotion. Various therapies and psychological disorders will be discussed and an emphasis will be placed on research that has been done in the field of psychology. A research report and/or its equivalent is expected/required.

<b>PSYCHOLOGY AP</b>		Enrollment Based
3360 AP	<i>1 unit</i>	11,12

**Prerequisite – None**

Students are introduced to the systematic and scientific study of the behavior and mental processes of humans. The course offers preparation for the advanced placement examination given in May of the school year and will qualify for College Now or Baker credit.

<b>SOCIOLOGY 1</b>		Enrollment Based
3370	<i>1/2 unit</i>	11,12

**Prerequisite – None**

Students gain insight into the makeup and function of human groups in society. Students study culture as the product of group experience, the interaction between the individual and the group, organization of society, and societal problems. Specific topics include: major themes of sociology, social institutions, social class, collective behavior, the aged, crime, poverty, and national and global social inequalities.

<b>SOCIOLOGY 2</b>		Enrollment Based
3371	<i>1/2 unit</i>	11,12

**Prerequisite – Sociology 1**

This course applies sociological concepts to social issues using the scientific method. Community resources are used extensively to implement in-depth studies and research activities.

<b>UNITED STATES GOVERNMENT AND POLITICS AP</b>		Enrollment Based
3207 AP	<i>1 unit</i>	12

**Prerequisite – None**

This course provides a study of general concepts of American government during the first semester and provides students with an analytical perspective on government and politics in the United States. During the second semester students are introduced to the processes and outcomes of politics in the United States and other countries. The entire year-long course must be taken in order to fulfill the American government graduation requirement. Students enrolled in the course may be eligible for JCCC (College Now) or Baker credit.

<b>UNITED STATES HISTORY</b>		Enrollment Based
3160	<i>1 unit</i>	11,12

**Prerequisite – None**

The high school course of study begins with a review of the major ideas, issues, and events of the late 19th century including imperialism, industrialization, and immigration. Students will then concentrate on the critical events, people, groups and ideas, and issues of the period from 1900 to the present.

<b>UNITED STATES HISTORY AP</b>		Enrollment Based
3165 AP	<i>1 unit</i>	11,12

**Prerequisite – None**

The course is a chronological survey of the history of the United States from the colonial period to the present. Students will analyze historical material, synthesize their own ideas, and evaluate those of others. A goal of the United States History AP course is to develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to be able to present reason and evidence clearly and persuasively in essay format. Students enrolled in this course may be eligible for JCCC credit (College Now) or Baker credit.

<b>WORLD REGIONAL STUDIES</b>		Enrollment Based
3396	<i>1 unit</i>	9

**Prerequisite – None**

This course is designed to explore the political, economic, physical, and cultural geography of Europe, Asia, Africa, Latin America, South America, and Australia; and provide an introductory overview of the historical development and events that shaped each region. Students in this course will investigate the cultural contributions of each region and rapidly changing landscape of these regions.

# SOCIAL STUDIES

<b>WORLD REGIONAL STUDIES H</b>	Enrollment Based
3397                      1 unit	9

**Prerequisite – None**

This course is designed to explore the political, economic, physical, and cultural geography of Europe, Asia, Africa, Latin America, South America, and Australia; and provide an introductory overview of the historical development and events that shaped each region. Students in this course will investigate the cultural contributions of each region and the rapidly changing landscape of these regions. Emphasis is on the process and analysis skills necessary for work in future advanced placement social studies courses. Additional emphasis is on the interpretation and analysis of historical materials. A research paper or project is required.

<b>INDIVIDUAL GOALS - SOCIAL STUDIES</b>	
<i>Enrollment Based</i>	9,10,11,12

0511	1 unit World Regional Studies
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0503	1 unit American History
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0504	1/2 unit American Government
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0505	1/2 unit Social Studies elective
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**Prerequisite – IEP team recommendation**

Enrollment in this course is determined by the Individual Education Plan team. The team will base recommendations on individual student need and state requirements. Credit in this course may be applied toward the minimum graduation requirement in Social Studies.

## TEACHER EDUCATION

### SMSD CTE Pathways

<b>Pathway: Teaching/Training</b>	<b>Strand: Teaching/Training</b>
<b>Intro Level</b>	Career & Life Planning (0.5)
<b>Technical Level</b>	Child Development & Human Growth (0.5)
	Teacher Education 1 (1.0)
<b>Application Level</b>	Teacher Education 2 (1.0)
	Teacher Internship (1.0)

**TEACHER EDUCATION 1 (SMW,SMNW)** Enrollment Based  
6515                      1 unit                      10,11,12

**Prerequisite – Child Development and Human Growth recommended. teacher approval required for second semester 10th grade students**

This course introduces students to teaching as a career. Students develop lesson plans, study developmental theory, learning styles, and teaching methods; compare best practices in instructional strategies, and identify needs of diverse learners. Students will observe certified teachers to learn and practice effective communication and teaching techniques. Working with certified kindergarten through eighth grade classroom teacher mentors, students will have the opportunity to prepare and present lesson plans in the classroom setting. Students must provide transportation to the teaching site. Students enrolled in this course may be eligible for Baker University credit. A health certificate and TB test administered no more than one year prior to the first day of school are required. This course is only offered at SMW and SMNW.

**TEACHER EDUCATION 2 (SMW,SMNW)** Enrollment Based  
6516                      1 unit                      11,12

**Prerequisite – Concurrent enrollment in Teacher Internship and completion of Teacher Education 1**

The second year of teacher education will allow students who plan to pursue teaching as a career to gain invaluable experience in the classroom. Topics of study include classroom management, safety procedures, effective communication skills, assessment tools, and developmental theories. Students prepare units of instruction in the areas of math, science, social studies, and reading that align with district curriculum to meet needs of student learners. Students must enroll concurrently for Teacher Internship. Students must provide transportation to the teaching site. Students enrolled in this course may be eligible for Baker credit. A health certificate and TB test administered no more than one year prior to the first day of school are required. This course is only offered at SMW and SMNW.

**TEACHER INTERNSHIP** Enrollment Based  
6517                      1 unit                      11,12

**Prerequisite – Concurrent enrollment in Teacher Education 2**

Students will participate in hands-on classroom experience through this teaching internship. Working with kindergarten through eighth grade classroom teacher mentors, students will practice communication techniques by presenting lessons in math, science, social studies, and/or reading. As an intern, the high school student will gain valuable experiences about delivering lessons, anticipating student questions, and involving all students in lessons. Students must enroll concurrently in Teacher Education 2. Students must provide transportation to the teaching site. Students enrolled in this course may be eligible for Baker credit. A health certificate and TB test administered no more than one year prior to the first day of school are required. Internship placement will be based on grade level and/or subject area interest.

## WORLD LANGUAGES

<b>ARABIC 1 (SMS)</b>		Enrollment Based
5300	1 unit	9, 10, 11, 12

**Prerequisite – None**

Students are introduced to the phonetic system of modern standard Arabic. Students develop skills in listening and speaking through the use of audiovisual materials. This course is offered only at SM South.

<b>ARABIC 2 (SMS)</b>		Enrollment Based
5302	1 unit	10, 11, 12

**Prerequisite – Arabic 1**

Students learn to function in typical cultural situations. They will be able to interact socially, understand and use appropriate vocabulary. Students develop their writing skills. In order to promote language proficiency, much of this class is taught in Arabic. This course is offered only at SM South.

<b>ARABIC 3 (SMS)</b>		Enrollment Based
5304	1 unit	11, 12

**Prerequisite – Arabic 2**

Students continue to learn language in the context of culture. Emphasis is given to reading, writing, listening, and speaking. In order to promote language proficiency, this class is mostly taught in Arabic. This course is offered only at SM South.

<b>ARABIC 4 H (SMS)</b>		Enrollment Based
5306 H	1 unit	12

**Prerequisite – Arabic 3**

Arabic 4H gives increasing emphasis to more formal writing and speaking skills. Listening and reading skills are stressed through an increasing use of authentic materials. In order to promote language proficiency, this class is taught in Arabic. This course is offered only at SM South.

<b>CHINESE 1 (SME)</b>		Enrollment Based
5326	1 unit	9, 10, 11, 12

**Prerequisite – None**

Students are introduced to the phonetic system of modern standard Mandarin Chinese. Students develop skills in listening and speaking through the use of audiovisual materials. Students read and write 100 Chinese characters. This course is offered only at SM East.

<b>CHINESE 2 (SME)</b>		Enrollment Based
5328	1 unit	10, 11, 12

**Prerequisite – Chinese 1**

In Chinese 2, more emphasis is placed on reading and writing. Students acquire approximately 200 more characters this year bringing the total they know to more than 300. In order to promote language proficiency, much of this class is taught in Chinese. This course is offered only at SM East.

<b>CHINESE 3 (SME)</b>		Enrollment Based
5330	1 unit	11, 12

**Prerequisite – Chinese 2**

Students develop skills in listening, speaking, reading, and writing through the use of dialogue, grammar, vocabulary study, and cultural readings. Students increase their knowledge of the Chinese-speaking world. In order to promote language proficiency, this class is mostly taught in Chinese. This course is offered only at SM East.

<b>CHINESE 4 H (SME)</b>		Enrollment Based
5332 H	1 unit	12

**Prerequisite – Chinese 3**

This course emphasizes increased depth in listening, speaking, reading, and writing. Students increase their knowledge of the Chinese-speaking world. In order to promote language proficiency, this class is taught in Chinese. This course is offered only at SM East.

<b>FRENCH 1</b>		Enrollment Based
5010	1 unit	9, 10, 11, 12

**Prerequisite – None**

French 1 offers a basic understanding of the French language and of the culture and geography of the French-speaking world. Students can expect to understand, speak, read and write French in the context of ordinary daily situations and topics such as family, school, numbers, telling time, sports, and clothing. Learning is enhanced through interactive activities, digital media, role playing, and authentic language activities.

<b>FRENCH 2</b>		Enrollment Based
5020	1 unit	10, 11, 12

**Prerequisite – French 1**

In French 2, students continue to expand their skills in speaking, listening, reading, writing and cultural awareness of the French-speaking world. In order to promote language proficiency, much of this class is taught in French.

<b>FRENCH 1/2 ACCELERATED</b>		Enrollment Based
5080	1 unit	9, 10, 11, 12

**Prerequisite – Teacher and counselor recommendation**

This course is designed for serious language students who are concurrently enrolled or have completed course work in another world language. This course builds on the student's prior knowledge of grammatical structure and language learning. The essential learnings and objectives of French 1 and 2 are taught at an accelerated pace. Upon successful completion of the year-long course, students will enroll in French 3 for the following school year.

## WORLD LANGUAGES

<b>FRENCH 3</b>	Enrollment Based
5030	9,10,11,12

1 unit

**Prerequisite – French 2**

French 3 emphasizes oral and written communication through continued study of conversation, writings, readings, grammar and vocabulary study. Students increase their knowledge of the French-speaking world which helps them to better understand their own culture. In order to promote language proficiency, this class is mostly taught in French. More than one language level may be scheduled within one class period.

<b>FRENCH 4</b>	Enrollment Based
5040	10,11,12

1 unit

**Prerequisite – French 3**

French 4 stresses refining the basic skills taught in the first three levels of study. Short composition is stressed as well as an intensive review of grammar. Reading ability is expanded through the reading of a complete literary work. In order to promote language proficiency, this class is taught in French. More than one language level may be scheduled within one class period. Students enrolled in this course may be eligible for JCCC credit (College Now).

<b>FRENCH 5 AP</b>	Enrollment Based
5064 AP	11,12

1 unit

**Prerequisite – French 4**

French 5 AP students review the basic structure of the language with further study of the more technical details. This is accompanied by a study of the literature, culture, and history of French-speaking countries. Students are prepared for the advanced placement examination. In this level course, students are expected to engage in and sustain conversation and discussion with native and/or proficient speakers of the target language throughout the class time. In order to promote language proficiency, this class is taught in French. More than one language level may be scheduled within one class period. Students enrolled in this course may be eligible for JCCC credit (College Now).

<b>FRENCH 6 H</b>	Enrollment Based
5063H	12

1 unit

**Prerequisite – French 5 AP and teacher recommendation**

French 6H continues refining the language structures learned previously. Selected readings (especially masterpieces) are read and analyzed. Students are expected to engage in and sustain conversation and discussion with native and/or proficient speakers of the target language throughout the class time. In order to promote language proficiency, this class is taught in French. More than one language level may be scheduled within one class period. **Students who opted not to take the AP exam at the end of level 5 may take the exam at the end of French 6.**

<b>GERMAN 1</b>	Enrollment Based
5090	9,10,11,12

1 unit

**Prerequisite – None**

German 1 offers a basic understanding of the German language, culture, and geography. Students can expect to understand, speak, read and write German in the context of ordinary daily situations and topics such as school, sports, hobbies, family and home, shopping and traveling. Learning is enhanced through interactive activities, digital media, role playing and authentic language activities.

<b>GERMAN 2</b>	Enrollment Based
5100	10,11,12

1 unit

**Prerequisite – German 1**

In German 2, students continue to write to expand their skills in speaking, listening, reading, writing and cultural awareness of the German-speaking world. In order to promote language proficiency, much of this class is taught in German.

<b>GERMAN 3</b>	Enrollment Based
5110	11,12

1 unit

**Prerequisite – German 2**

German 3 emphasizes oral and written communication through continued study of conversation, writings, readings, grammar, and vocabulary study. Students increase their knowledge of the German-speaking world which helps them to better understand their own culture. In order to promote language proficiency, the class is taught mostly in German. More than one language level may be scheduled within one class period.

<b>GERMAN 4 H</b>	Enrollment Based
5111 H	12

1 unit

**Prerequisite – German 3**

German 4 H stresses refining the basic skills taught in the first three levels of study. Composition is stressed as well as an intensive review of grammar. A brief overview of history and civilization is begun. Reading skills are expanded. In order to promote language proficiency, this class is taught in German. More than one language level may be scheduled within one class period. Students enrolled in this course may be eligible for JCCC credit (College Now).

<b>JAPANESE 1 (SMNW)</b>	Enrollment Based
5400	9,10,11,12

1 unit

**Prerequisite – None**

Students are introduced to modern Japanese. Emphasis is placed on developing skill in the spoken language through work with films and videos. This course consists of an equal balance of listening, speaking, reading and writing in Japanese. We will also study a variety of aspects of traditional and modern Japanese culture. Students will learn to write Hiragana and Katakana, the two syllable alphabets of Japanese during first quarter. This course is offered only at SM Northwest.



## WORLD LANGUAGES

<b>RUSSIAN 3 (SMN)</b>	Enrollment Based
5430	11, 12
<i>1 unit</i>	

**Prerequisite – Russian 2**

Students expand their written and oral communication skills through conversation and readings from Russian literature, as well as grammar and vocabulary study. In order to promote language proficiency, this class is taught mostly in Russian. This course is offered only at SM North.

<b>RUSSIAN 4 H (SMN)</b>	Enrollment Based
5432 H	12
<i>1 unit</i>	

**Prerequisite – Russian 3**

Russian 4 stresses refining the basic skills taught in the first three levels of study. Short composition is stressed as well as an intensive review of grammar. In order to promote language proficiency, this class is taught in Russian. This course is offered only at SM North.

<b>SPANISH 1</b>	Enrollment Based
5160	9, 10, 11, 12
<i>1 unit</i>	

**Prerequisite – None**

Spanish 1 offers a basic understanding of the Spanish language and the culture and geography of the Spanish-speaking world. Students can expect to understand, speak, read and write Spanish in the context of ordinary daily situations and topics such as family, school, numbers, time, sports and clothing. Learning is enhanced through interactive activities, digital media, role playing, and authentic language activities.

<b>SPANISH 2</b>	Enrollment Based
5170	10, 11, 12
<i>1 unit</i>	

**Prerequisite – Spanish 1**

In Spanish 2, students continue to expand their skills in speaking, listening, reading, writing and cultural awareness of the Spanish-speaking world. In order to promote language proficiency, much of this class is taught in Spanish.

<b>SPANISH 3</b>	Enrollment Based
5180	9, 10, 11, 12
<i>1 unit</i>	

**Prerequisite – Spanish 2**

Spanish 3 emphasizes oral and written communication through continued study of conversation, writings, readings, grammar, and vocabulary study. Students increase their knowledge of the Spanish-speaking world which helps them to better understand their own culture. In order to promote proficiency, this class is mostly taught in Spanish. More than one language level may be scheduled within one class period.

<b>SPANISH 4</b>	Enrollment Based
5190	10, 11, 12
<i>1 unit</i>	

**Prerequisite – Spanish 3**

Spanish 4 offers an advanced study of Hispanic literature, culture, and history. Various activities incorporate both writing and oral use of the language. Students work on an advanced study of the structure of the language. In

order to promote language proficiency, this class is taught in Spanish. More than one language level may be scheduled within one class period. Students enrolled in this course may be eligible for JCCC credit (College Now).

<b>SPANISH 5 AP</b>	Enrollment Based
5214 AP	11, 12
<i>1 unit</i>	

**Prerequisite – Spanish 4**

Spanish 5 AP students review the basic structure of the language with further study of the more technical details. This is accompanied by a study of the culture and history of Latin America and Spain. In this level course, students are expected to engage in and sustain conversation and discussion with the native and/or proficient speakers of the target language throughout the class time. In order to promote language proficiency, this class is taught in Spanish. Students are prepared for the advanced placement examination. More than one language level may be scheduled within one class period. Students enrolled in this course may be eligible for JCCC credit (College Now).

<b>SPANISH 6 H</b>	Enrollment Based
5213 H	12
<i>1 unit</i>	

**Prerequisite – Spanish 5 AP and teacher recommendation**

Spanish 6 H continues refining the language structures learned previously. Selected readings, especially masterpieces, are read and analyzed. In this level course, students are expected to engage in and sustain conversation and discussion with native and/or proficient speakers of the target language throughout the class time. In order to promote language proficiency, this class is taught in Spanish. More than one language level may be scheduled within one class period. **Students who opted not to take the AP exam at the end of level 5 may take the exam at the end of Spanish 6.**

<b>SPANISH FOR NATIVE SPEAKERS</b>	Enrollment Based
5161	9, 10, 11, 12
<i>1 unit</i>	

**Prerequisite – Placement test or teacher recommendation**

Students will focus on the interpretive and presentational (productive) modes of communication to improve reading, writing, listening, and speaking skills in Spanish. Through the study of Hispanic literature and cultural readings, students will compare and contrast the people, geography customs, and manners of Western and Spanish speaking societies. The class is conducted exclusively in Spanish. Students will be assessed to determine placement in the next level of Spanish after completion of the course.

<b>WORLD LANGUAGE – INDEPENDENT STUDY</b>	Enrollment Based
5221	9, 10, 11, 12
<i>1/2 unit</i>	

**Prerequisite – None**

Individual projects are designed under the supervision of the teacher. This course is repeatable.

## SPECIALIZED PROGRAMS

<b>ACT/SAT PREPARATION</b>	Enrollment Based
9937	1/2 unit
	10,11,12

**Prerequisite – None**

In this elective course, students will understand the test taking and test preparation process. Additionally, they will be exposed to various types of SAT/ACT questions, review specific content covered on the tests, and interpret and use test scores. Students are encouraged to complete the entire course the semester before they begin college admissions testing.

<b>CADET TEACHING PROGRAM</b>	Enrollment Based
9092	1/2 unit
	10,11,12

**Prerequisite – Counselor/ IEP Team Recommendation**

The Cadet Teaching Program is a repeatable course designed to provide an opportunity for high school students to serve as a peer role model for fellow students. This could take place in any of the following locations a social skills classroom, resource room, alternative learning environment or regular classroom. The course will require an application that provides:

- Detailed goals and objectives
- Specific criteria by which student's grade will be determined
- Signatures from parent, teacher, counselor and administrator.
- Enrollment must be initiated by classroom teacher and/or case manager.

<b>INTRODUCTION TO CAREERS</b>	Enrollment Based
0662	1/2 unit
	10,11,12

**Prerequisite – IEP Team Recommendation**

Enrollment in this course is determined by the Individual Education Plan team. The purpose of this course is to prepare students for work and post-graduation careers. Students will complete interest surveys, explore careers and community resources and learn job seeking skills.

<b>CAREER EXPERIENCE (HORIZONS)</b>	Enrollment Based
9940	1/2 unit
	10,11,12

**Prerequisite – Administrative approval**

Students will receive instruction related to job selection, application, and attainment. The students and teacher will work cooperatively with the employer in developing and monitoring appropriate work skills. Students provide transportation to the work site. Course is limited to students enrolled at Horizons. Evaluation is based on the student's job and classroom performances. Verification of 90 hours of satisfactory job performance is required for each 1/2 credit earned. Course is taken on a pass/fail basis for a maximum of 1.5 units per semester. Course may be repeated for credit for a maximum of 5 units.

<b>CAREER EXPLORATION</b>	Enrollment Based
0663	1 unit (2-hour block per semester)
	10,11,12

**Prerequisite – IEP team recommendation**

Enrollment in this course is determined by the Individual Education Plan team. The purpose of this course is to prepare students for work and post-graduation careers. Students will complete interest surveys, explore careers and community resources and learn job seeking skills during the classroom component and community job exploration.

<b>COLLEGE CAMPUS STUDY</b>	Enrollment Based
9320	No credit, one semester
	11,12

**Prerequisite – Principal's authorization or by special permission.**

**Students will submit a College Campus Study Student/Parent Application form, available in the counseling office that will be reviewed by their counselor and the school administration**

Shawnee Mission high school juniors and seniors may, with approval at their home high school, enroll in courses in local colleges and universities or a technical program at an accredited post-secondary school in alignment with their Individual Plan of Study. The costs associated with enrolling in a post-secondary institution is the responsibility of the student. Some community colleges are able to wave tuition for tiered career technical courses as covered by the Excel in CTE program (formerly known as SB 155) such as outlined by JCCC: <http://www.jccc.edu/admissions/high-school/sb-155.html> Students will submit a College Campus Study Student/Parent Application form, available in the counseling office that will be reviewed by their counselor and the school administration. In addition, the student must complete a college Transcript Release; this form allows the college to release the student's grades to their high school.

**Students enrolling in a college campus study course will have the college course transcribed for SMSD high school credit upon district receipt of the college transcript and administrator authorization.**

Students may enroll in courses for a time that is equivalent to a maximum of three course periods at the high school level, including travel time. A request for a course beyond the three period equivalent must be approved by the building principal or their designee.

Please note that the district is not responsible for accidents that might occur while traveling to or from while participating in College Campus Study. For a complete description of College Campus Study, please ask your counselor for a College Campus Study packet, which includes all of the forms necessary for participation in the program.

<b>COMMUNITY SERVICE (SMNW)</b>	Enrollment Based
9938	1/2 unit
	11,12

**Prerequisite – None**

Students participate in community service activities. Projects will be designed which support both its curricular programs and community. Students provide transportation to and from the community service site. Course may be repeated for credit.

## SPECIALIZED PROGRAMS

### S.E.E.K. Students Examining and Experiencing Knowledge

Enrollment Based

<i>0147</i>	<i>1/2 unit, Fall</i>	<i>9, 10, 11, 12</i>
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<i>0148</i>	<i>1/2 unit, Spring</i>	
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**Prerequisite – IEP team recommendation**

This program is offered as an elective semester class providing a range of individualized services and supports for identified gifted students including research, in-depth studies in areas of interest, and preparation for testing and college. Students will enroll in the S.E.E.K. course in accordance with their IEP goals and will receive an elective credit/letter grade. The course may be repeated for credit.

### INDEPENDENT LIVING

Enrollment Based

<i>0637</i>	<i>1 unit</i>	<i>9, 10, 11, 12</i>
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**Prerequisite – IEP team recommendation**

Enrollment in the course is determined by the Individual Education Plan team. The team will base recommendations on individual student need and state requirements.

### INTERPERSONAL SKILLS

Enrollment Based

<i>9224</i>	<i>1/2 unit</i>	<i>9, 10, 11, 12</i>
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**Prerequisite – IEP team recommendation**

Enrollment in the course is determined by the Individual Education Plan team. The team will base recommendations on individual student need and state requirements.

### LEADERSHIP PRACTICUM

Enrollment Based

<i>9240</i>	<i>1 unit</i>	<i>9, 10, 11, 12</i>
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**Prerequisite – None**

Students learn basic leadership skills through classroom instruction and practical experience. Students improve their speaking skills, learn parliamentary procedures, and develop confidence and poise in leadership roles.

### LEISURE AND RECREATION SKILLS

Enrollment Based

<i>0812</i>	<i>1 unit</i>	<i>9, 10, 11, 12</i>
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**Prerequisite – IEP team recommendation**

Enrollment in the course is determined by the Individual Education Plan team. The team will base recommendations on individual student need and state requirements.

### LIFE SUSTAINING AND ENVIRONMENTAL INTERACTION SKILLS

Enrollment Based

<i>0825</i>	<i>1 unit</i>	<i>9, 10, 11, 12</i>
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**Prerequisite – Placement test or teacher recommendation**

Enrollment in the course is determined by the Individual Education Plan team. The team will base recommendations on individual student need and state requirements.

### MENTOR PROGRAM

Enrollment Based

<i>0882</i>	<i>2 units</i>	<i>11, 12</i>
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**Prerequisite – IEP team recommendation (Mentorship Seminar helpful but not required. This is a two-semester, two-hour block during hours 6 and 7).**

Students will increase their knowledge of potential career fields, colleges, and scholarship opportunities. Students will participate in a variety of career exploration experiences through personal interviews, field trips, shadowing, and intern/mentorships in a career area selected by the student. Each student will have the opportunity to do authentic field work in collaboration with community professionals. Students create, design, implement, lead, and develop a specific independent project and share the outcomes with an appropriate audience. Students must provide their own transportation.

### SOCIAL SKILLS TRAINING

Enrollment Based

<i>0818, 0819, 0820, 0821</i>	<i>1 unit</i>	<i>9, 10, 11, 12</i>
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**Prerequisite – IEP team recommendation**

Enrollment in the course is determined by the Individual Education Plan team. The team will base recommendations on individual student need and state requirements.

### STUDY SKILLS

Enrollment Based

<i>9160</i>	<i>1 unit</i>	<i>9, 10, 11, 12</i>
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**Prerequisite – None**

Enrollment in the course is determined by the Individual Education Plan team. The team will base recommendations on individual student need and state requirements.

### JOB SKILLS TRAINING

Enrollment Based

<i>0665</i>	<i>1/2 unit (1-hour block per semester)</i>	<i>10, 11, 12</i>
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**Prerequisite – IEP team recommendation**

Enrollment in this course is determined by the Individual Education Plan team. The purpose of this course is to provide training and supervision to students needing to develop entry level work skills. Students will be placed in building based worksites/work stations based upon individual needs.

### WORK STUDY

Enrollment Based

<i>0666</i>	<i>1 unit (2-hour block per semester)</i>	<i>11, 12</i>
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**Prerequisite – IEP team recommendation**

Enrollment in this course is determined by the Individual Education Plan team. This course is for students who obtain and maintain competitive employment. Evaluation is based on the student's job performance. Verification of 90 hours of satisfactory job performance is required for each ½ credit earned. Course is taken on a pass/fail basis for a maximum of 1.0 credit per semester.

## SPECIALIZED PROGRAMS

### ENGLISH LANGUAGE LEARNERS

English Language Learners (ELL) courses are available to meet the needs of students with limited English language proficiency. The ELL transition and study skills lab are offered at any high school based on need.

<b>ELL LANGUAGE ARTS 1</b>	Enrollment Based
1792, 1793, 1794	9,10,11,12
<i>3 units</i>	

**Prerequisite – Teacher or counselor recommendation**

ELL Language Arts 1 is for English language learners at the beginning level of proficiency. Emphasis is given to listening, speaking, reading, and writing skills in English, including vocabulary, sentence structure, and cultural awareness. Basic English language skills and vocabulary are taught using a variety of teaching methods and materials. A maximum of two units of credit may be applied from this course towards the minimum graduation requirement in English. Regardless of total English credits acquired, the ELL student must be enrolled in an English class each year.

<b>ELL LANGUAGE ARTS 2</b>	Enrollment Based
1796, 1797	9,10,11,12
<i>2 units</i>	

**Prerequisite – Teacher or counselor recommendation**

ELL Language Arts 2 is for English language learners at the early intermediate level of proficiency. Emphasis is given to the development of English listening, speaking, reading, and writing skills in order to achieve communicative competence in social and academic use. Situational dialogues and conversations are used to address listening and speaking. In reading, a variety of texts are taught and in writing, students will learn narrative, expository, technical, and persuasive text types. A maximum of two units of credit may be applied from this course towards the minimum graduation requirement in English. Regardless of total English credits acquired, the ELL student must be enrolled in an English class each year.

<b>ELL LANGUAGE ARTS 3</b>	Enrollment Based
1799	9,10,11,12
<i>1 unit</i>	

**Prerequisite – Teacher or counselor recommendation**

ELL Language Arts 3 is for English language learners at the intermediate level of proficiency. Emphasis is given to the refinement of English language skills in order to develop communicative competence in social and academic use. Emphasis is given to language appropriateness in social and academic settings. Students will learn by participating in a variety of oral presentations and discussions, reading a variety of texts, and writing narrative, expository, technical, and persuasive text types using the six-trait model. A maximum of two units of credit may be applied from this course towards the minimum graduation requirement in English. Regardless of total English credits acquired, the ELL student must be enrolled in an English class each year.

<b>ELL STUDY SKILLS LAB</b>	Enrollment Based
1802	9,10,11,12
<i>1 unit</i>	

**Prerequisite – Teacher or counselor recommendation**

This course is designed to facilitate the development of organizational skills, time management skills, and planning strategies. Students receive assistance in note-taking, vocabulary building, and concept mapping for students' core courses. Teacher-guided completion of classwork and monitoring of students' grades are key components. Course may be repeated for credit.

<b>ELL TRANSITION</b>	Enrollment Based
1801	9,10,11,12
<i>1/2 unit</i>	

**Prerequisite – Teacher or counselor recommendation**

This course is designed for English language learners at the early advanced proficiency level who still need support in the development of English skills. Students focus on the development and foundation of academic vocabulary and metacognitive reading strategies. Emphasis is placed on activities that enhance students' critical thinking and reading skills. In addition, the course provides the students with a comprehensive review of English grammar and test-taking strategies.

<b>ELL MATHEMATICS EXTENSION</b>	Enrollment Based
2012	9,10,11,12
<i>1/2 unit</i>	

**Prerequisite – Teacher or counselor recommendation, ELL Students**

This course is designed for ELL students who need additional support for success in acquiring mathematical skills and concepts. Course instruction uses prescriptive lessons to improve student understanding of math principles. This course may be repeated for credit. One-half unit of credit may be applied toward the minimum graduation requirements in mathematics.

Credit for art courses may be applied toward the minimum fine arts graduation requirement.

## SPECIALIZED PROGRAMS

### eSCHOOL COURSES

The Shawnee Mission School District offers a limited number of virtual (online) courses. Courses are led by certified instructors through the Edgenuity online platform. Specific information about the courses offered is listed below. Students may enroll in these courses during the school day as one of seven courses, or as an outside of school option (fee involved). For students enrolling in Edgenuity courses during the traditional school day, periods one – seven, enrollment will be managed at their home high school buildings. The district will continue to research and develop other courses for future development. For information regarding eSchool, please contact (913 993-9740) or refer to the eSchool webpage: [summerschool.smsd.org](http://summerschool.smsd.org)

Students will need to attend a mandatory orientation meeting to participate in eSchool courses. Meeting opportunities will occur near the start date of each semester. Students will also be required to take the final exam for the course in a supervised testing center located at a designated SMSD campus. Specific dates, times, and locations for these required activities can be found on the eSchool website.

<b>AMERICAN GOVERNMENT</b>	Enrollment Based
<i>ES3990</i> <i>1/2 unit</i>	<i>12</i>

**Prerequisite – None**

The required course in American Government is based upon students' previous learning to assist them in being informed and engaged citizens. Emphasis is placed on the rights, responsibilities, and privileges of citizenship. Students will examine the development and the fundamental principle incorporated into the United States Constitution; the organization of government at the federal, state, and local level; political parties and elections; comparative government; and foreign policy. (See graduation requirements.)

<b>ART HISTORY</b>	Enrollment Based
<i>ES7615</i> <i>1/2 unit</i>	<i>9, 10, 11, 12</i>

**Prerequisite – None**

Introducing art within historical, social, geographical, political, and religions context for understanding art and architecture through the ages, this course offers high school students an in-depth overview of art throughout history, with lessons organized by chronological and historical order and world regions. Credit for art courses may be applied toward the minimum fine arts graduation requirement.

\*This course does not meet NCAA eligibility requirements

<b>FINANCIAL LITERACY</b>	Enrollment Based
<i>ES6387</i> <i>1/2 unit</i>	<i>10, 11, 12</i>

**Prerequisite – None**

This course is a comprehensive study of personal financial literacy designed for all students and is aligned to the national standards for personal financial literacy. Students learn how to make informed financial decisions related to budgeting, banking, credit, insurance, taxes and career exploration. An integral component of the financial literacy curriculum is the application of decision-making skill that enables students to become more responsible consumers for lifetime success. (See graduation requirements.)

<b>HEALTH EDUCATION</b>	Enrollment Based
<i>ES9220</i> <i>1/2 unit,</i>	<i>9, 10, 11, 12</i>

**Prerequisite – None**

The Health Education course curriculum will include content in the areas of mental health, human growth and development, addictions, fitness for life, disease prevention, nutrition, personal relationships, and abstinence based human sexuality. (See graduation requirements.)

<b>LIFETIME FITNESS</b>	Enrollment Based
<i>ES8165</i> <i>1/2 unit</i>	<i>9, 10, 11, 12</i>

**Prerequisite – None**

Exploring fitness topics such as safe exercise and injury prevention, nutrition and weight management, consumer product evaluation, and stress management, this course equips high school students to assess individual fitness levels according to the five components of physical fitness: cardiovascular health, muscular strength, muscular endurance, flexibility, and body composition. Personal fitness assessments encourage students to design fitness programs to meet their individual fitness goals.

\*This course does not meet NCAA eligibility requirements

<b>PSYCHOLOGY 1</b>	Enrollment Based
<i>ES3340</i> <i>1/2 unit</i>	<i>10, 11, 12</i>

**Prerequisite – None**

This course is an introduction to psychology; the theory, history, and terminology important to a basic understanding of behavior. Students will explore psychological perspectives, the subfields of psychology and the research methods used by psychologist to explore human behavior and mental processes. Emphasis is placed on life span development, biological basis of behavior, learning and states of consciousness.

# SPECIALIZED PROGRAMS

NJROTC / NNDCC

## NAVAL JUNIOR RESERVE OFFICERS TRAINING CORPS (NJROTC) OFFERED AT SMN AND

## NAVY NATIONAL DEFENSE CADET CORPS (NNDCC) OFFERED AT SMW.

The Shawnee Mission School District is proud to offer the Naval Junior Reserve Officers Training Corps at SM North high school. For the 2018-2019 school year, SM West will provide all courses similar to SM North, but their program is identified as the Navy National Defense Cadet Corps. All district high school students are eligible to enroll in either NJROTC or NNDCC as full-time students on transfer to SM North or SM West or as part-time students, schedule permitting. Students in the NJROTC or the NNDCC programs are responsible to transport themselves to the host school on scheduled class days. Part-time students will be provided transportation by the district from the appropriate NJROTC or NNDCC site back to their home school. Part-time students from SM East and SM South will attend SM West. Part-time students from SM Northwest will attend SM North.

The district partners with the Navy to present a four-year curriculum that blends various classroom subjects including social studies, science, and physical fitness, each from a military perspective such as military history, oceanography, and lifetime personal fitness. Enrolled students will satisfy district physical education requirements with two-year participation in NJROTC/NNDCC. Although a student may join NJROTC/NNDCC at any point in their high school career, the maximum benefits of the curriculum are realized when it is followed from the student's freshman year through their senior year. Students derive a great deal of satisfaction as they transition from the role of follower in 9th grade through the various leadership levels to senior leader in the chain of command by the time they graduate. Those interested in combining military service with college studies will enjoy the advantage of a recommendation by the Senior Naval Science Instructor (SNSI) to attend the United States Naval Academy or receive a college ROTC scholarship. Recommendation does not guarantee academy appointment or a ROTC scholarship, but it is very helpful.

**Physical Fitness:** Each course has physical training (PT) as a significant component. The focus of NJROTC/NNDCC's PT regimen is personal fitness. Although team games are sometimes played, the major focus of PT is for the cadet to gain an appreciation of lifelong fitness. Nutrition is also discussed as the "healthy mind, healthy body" concept is developed to the fullest. Naval Science (NJROTC) may be applied for physical education (P.E.) credit to meet graduation requirements. A maximum of one-half (1/2) unit of NJROTC/NNDCC per year for a total of one (1) unit, may count as physical education credit. Two full years of NJROTC/NNDCC would satisfy the graduation requirement of one (1) unit of physical education. Additional NJROTC/NNDCC units will be counted as elective credit. Elective credit is given for up to a total of four (4) units when the P.E. credit option is not taken.

**Extracurricular activities:** Full benefit from the NJROTC/NNDCC curriculum is achieved when the cadet chooses at least one NJROTC/NNDCC extracurricular activity in which to participate. These include: Drill Team (precision marching and rifle spinning), orienteering (land navigation through pre-described courses in the woods using only a map and a compass), PT Team (for those who are really into exercising), and Academic Team (this team takes a test centered on questions from our textbooks and current events). The PT Team and Academic Team travel with the Drill Team to out-of-town competitions and compete for the possibility of attending the Navy National Drill Competition held each spring in Pensacola, Florida. Students are responsible for transportation to special events and activities.

CITIZENSHIP/LEADERSHIP DEVELOPMENT NS 1		
		Enrollment Based
9050	1 unit	9,10,11,12

**Prerequisite – None**

Students are introduced to the NJROTC program: citizenship, foundations of government, leadership, and Navy operational platforms such as ships, submarines, and aircraft. Marching drills, commands, and ceremonial procedures are utilized in the basic training of the new cadet/student. Leadership, self-discipline, responsibility, and learning to be a good follower are core concepts of this course. Peripheral studies include naval heritage, customs and courtesies of the military, and the US Navy chain of command. Uniforms are issued to each student free of charge.

CITIZENSHIP/LEADERSHIP DEVELOPMENT NS 2		
		Enrollment Based
9055	1 unit	10,11,12

**Prerequisite – Citizenship/Leadership Development NS 1**

Students are introduced to sonar, maritime geography, oceanography, electronics, meteorology, and shipboard operations. Maritime history is explored from early western civilization through the present. Cadets also continue their study and practice of marching drills, commands, and ceremonies. Students begin the transition from follower to leader. College preparation is stressed and each cadet creates goals for the future. Students begin to learn how to apply for a college scholarship.

## SPECIALIZED PROGRAMS

NJROTC / NNDCC

### CITIZENSHIP/LEADERSHIP DEVELOPMENT NS 3

Enrollment Based

9050	<i>1 unit</i>	11,12
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**Prerequisite – Citizenship/Leadership Development NS 2**

Cadets are introduced to sea power and national security, naval operations and support functions, military law, international law and the sea, basic seamanship, ship construction, damage control, and naval aircraft. Drills, commands, and ceremonies are now examined completely from the role of the experienced cadet who has a leadership role in the program. Students are promoted to high level positions of leadership and responsibility.

### CITIZENSHIP/LEADERSHIP DEVELOPMENT NS 4

Enrollment Based

9061	<i>1 unit</i>	12
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**Prerequisite – Citizenship/Leadership Development NS 3**

Cadets are introduced to the subjects of military justice, U.S. Navy research and development, grand strategy and preparedness, and maritime logistics. Case studies in leadership are also studied. Students are promoted to the very top positions in the program. Career planning and educational goals are formalized as the cadet prepares to graduate from high school.

### NJROTC – INDEPENDENT STUDY

Enrollment Based

9065	<i>1/2 unit</i>	9,10,11,12
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**Prerequisite – Successful completion of Naval Science**

Cadets are introduced to the subjects of military justice, U.S. Navy research and development, grand strategy and preparedness, and maritime logistics. Case studies in leadership are also studied. Students are promoted to the very top positions in the program. Career planning and educational goals are formalized as the cadet prepares to graduate from high school.

## SIGNATURE PROGRAMS

Shawnee Mission Signature Programs provide high school students the opportunity to explore unique areas of study in preparation for specialized academic and future career opportunities. Students participating in signature programs receive targeted instruction that is both rigorous and relevant. These specialized programs reflect our district's commitment to providing quality educational opportunities that will enable students to be successful in 21st century careers and advanced studies. In the majority of programs listed below, introductory courses are offered (unless noted in the program of studies course information) at each of the respective high schools with advanced coursework offered at the Center for Academic Achievement (CAA) and the Career and Technical Campus (CTC). District transportation is provided for students to participate in the Signature Programs offered at CAA and/or the Career and Technical Campus (CTC). Courses that feature student research internships, professional shadowing experiences, and/or courses offered beyond the traditional school day do require students' to provide their own transportation

### ANIMATION AND GAME DESIGN

Center for Academic Achievement

In this signature program, state-of-the-art software and equipment is used by students as they learn 21st century multimedia skills. The courses taken in this program teach students the fundamentals of motion graphics, principles of animation, and problem-solving skills they need to excel in advertising, movies, video games, architecture, engineering, and other industries where 3D animators are in demand.

### BIOTECHNOLOGY

Center for Academic Achievement

Students have the opportunity to learn and practice advanced skills in biotechnology in the areas of pharmacology, agriculture, and bioinformatics. Advanced laboratory work including original research, design and implementation, and exposure to onsite experiences in area biotechnical laboratories will be provided.

### CULINARY ARTS AND HOSPITALITY

Center for Academic Achievement

The program prepares students for the multi-faceted hospitality career industry. The award-winning Broadmoor Bistro is a restaurant hospitality operation, directed and executed by students in either the culinary or baking program. The Bistro focuses on all aspects of restaurant entrepreneurship.

### ENGINEERING / PROJECT LEAD THE WAY

Center for Academic Achievement

PLTW engineering pathway is a four-year sequence of courses which, when combined with traditional mathematics and science courses in high school, introduces students to the scope, rigor, and discipline of engineering prior to entering college.

Students learn to work as a team to solve real-world problems using state-of-the-art computer software and technology. Teams apply principles developed in PLTW courses and are guided by community mentors. Students brainstorm possibilities, research current patents and regulations, construct working models, test the models in real-life situations, document their designs, and present and defend the design to a panel of experts. Introduction to Engineering Design and Principles of Engineering, the first two courses in the series, are available at all SMSD high schools.

### INTERNATIONAL BACCALAUREATE

SME, SMN, SMNW

The International Baccalaureate (IB) Program is a two-year college preparatory curriculum. Students who successfully complete the comprehensive program may earn a diploma from the International Baccalaureate Organization. The program is widely recognized by the world's leading universities and students may earn college credit for certain courses.

The IB program requires that diploma students complete a sequence of courses from six curricular groups: English, world languages, history, science, math, and the arts and sciences. Students who wish to participate in IB but not obtain a diploma can take individual classes for recognition via certificate at SM East, SM North, and SM Northwest.

### LAW, PUBLIC SAFETY AND SECURITY

SM High Schools, Career and Technical Campus

Project Blue Eagle concentrates on exposing the student to three career paths – law enforcement, firefighting EMT, and the legal profession. Courses introduce students to basic law, the history of each of the three professional areas, an explanation of how each professional area works, the requirements, their compensation, and all of the pertinent information necessary for a student to consider moving in this career path. Classes in this program could be beneficial and informative to any student regardless of their chosen career path.

### MEDICAL HEALTH SCIENCE

Center for Academic Achievement

This signature program is designed to address the needs of students who desire a rigorous curricular experience. The program will provide skills, knowledge, and understanding that will create a foundation for students planning to enter the medical field after completing college.

Students receive intensive exposure to medical careers through tours, speakers, seminar participation, and shadowing. Emphasis is placed upon increasing self-awareness, critical thinking skills, and problem-solving skills. The medical health signature program will provide students the opportunity to explore and investigate various professional opportunities in this very competitive career field.

# ANIMATION AND GAME DESIGN

A SIGNATURE PROGRAM AT CAA

These courses are offered at the Center for Academic Achievement and are open to all high school students within the district. District transportation is provided from the students' home high schools to the Center for Academic Achievement and back to the home high school.

## SMSD CTE Pathways

<b>Pathway: Information Technology</b>	<b>Strand: Web &amp; Digital Communications</b>
<b>Intro Level</b>	Computer Dimensions 2 (taken in middle school) <u>or</u> Microsoft Business Applications (0.5)
<b>Technical Level</b>	2D Animation (1.0)
	3D Modeling and Animation (1.0)
	Game Design & Development 1 (1.0)
	Web Design (1.0)
	Digital Design Studio (1.0)
<b>Application Level</b>	3D Modeling & Animation 2 (1.0)
	Digital Design Studio, Advanced (1.0)
	Editorial Leadership, Project Management (1.0)

### GAME DESIGN AND DEVELOPMENT 1 (CAA)

Enrollment Based

6032      1 unit (2-hour block per semester)      10,11,12

**Prerequisite – None**

In this introductory gaming course, students will have hands-on experience creating and modifying their own 2D and 3D video games. Using their creativity and problem solving skills, students will learn to design, create, test and debug video games. Students will be introduced to 3D modeling and animation as part of the game design process and commonly used computer languages used for game scripting. Students will also explore game genres, their history, and the business of gaming. Credit may be applied toward the minimum fine arts graduation requirement. Course may qualify for JCCC advanced standing credit.

### GAME DESIGN AND DEVELOPMENT 2 (CAA)

Enrollment Based

6033      1 unit (2-hour block per semester)      11,12

**Prerequisite – Game Design and Development 1**

In this second gaming course, students will work within a game development framework to create games and visualizations that will advance their knowledge and skills acquired in the game design and development 1 course. This project-driven course will emphasize the game creation process from idea generation and proof of concept to final game creation. Games and visualization will be developed using game development software that has both built-in and text based scripting languages. Credit may be applied toward the minimum fine arts graduation requirement. Course may qualify for JCCC advanced standing credit. This course may be repeated for credit.

# ANIMATION AND GAME DESIGN

A SIGNATURE PROGRAM AT CAA

<b>2D ANIMATION 1 (CAA)</b>	Enrollment Based
6071	1 unit (2-hour block per semester) 10,11,12

**Prerequisite – None**

This course emphasizes the development of visual creativity expressed through drawing and storytelling with technology. Students will develop digitally generated 2D animations using industry-standard graphics software. Students will learn character and story development, animation principles, sound and sound editing skills, and how to control and manage movements through frame-by-frame animation and scripting languages. Students will be introduced to motion graphics to generate simple compositing and special effects. Credit may be applied toward the minimum fine arts graduation requirement.

<b>2D ANIMATION 2 (CAA)</b>	Enrollment Based
6072	1 unit (2-hour block per semester) 10,11,12

**Prerequisite – 2D Animation1**

In this second 2D animation course, students will work within a creative outline to develop story-based animations and/or visualizations that will advance their knowledge and skills acquired in the first 2D Animation course. This project-driven course will emphasize the creative process from concept art and storyboarding to creating the animatic, pre-visualization, sound design and final film. Credit may be applied toward the minimum fine arts graduation requirement. Course may qualify for JCCC advanced standing credit. This course may be repeated for credit.

<b>3D MODELING AND ANIMATION 1 (CAA)</b>	Enrollment Based
6074	1 unit (2-hour block per semester) 10,11,12

**Prerequisite – None**

This course introduces students to the tools and skills needed to create three-dimensional digital animations. Students will model dimensional objects and characters and create 3D environments and realistic textures. Students will learn the principles of animation and the techniques for bringing animated characters to life. Students will also be introduced to motion graphics to generate simple compositing and effects and use sound and rendering techniques to create visual stories. Credit may be applied toward the minimum fine arts graduation requirement. Course may qualify for JCCC advanced standing credit.

<b>3D MODELING AND ANIMATION 2 (CAA)</b>	Enrollment Based
6075	1 unit (2-hour block per semester) 10,11,12

**Prerequisite – 3D Modeling and Animation 1**

In this 3D animation course students will study advanced applications of 3D animation software. Students will develop projects to advance their knowledge of techniques acquired in 3D animation 1. Topics may include 3D modeling, advanced lighting, camera work, materials, character rigging, sound creation, special effects, and rendering to design and create photorealistic images and animations and portfolio quality artifacts. Credit may be applied toward the minimum fine arts graduation requirement. Course may qualify for JCCC advanced standing credit. This course may be repeated for credit.

<b>CONTEMPORARY COMMUNICATIONS IN ANIMATION AND INTERACTIVE MEDIA (CAA)</b>	Enrollment Based
1640	1/2 Unit 11,12

**Prerequisite – ELA 2**

Contemporary Communications provides students with a blended learning environment by which they explore fundamentals of effective communication in the 21st century while enrolled in Shawnee Mission Signature Program courses at the Center for Academic Achievement. Students develop and apply skills in personal communication including critical thinking, speaking, listening, and written communications linked to the signature programs of study of their interest (i.e. animation, game design.) Students will participate in ongoing activities aligned to Kansas English Language Arts standards while enhancing content linked directly to the respective signature programs. A significant portion of the course is conducted via on-line assignments and communication. **This blended format requires students to be attentive to assignment deadlines and electronic communications from the instructor.** This course is repeatable for credit.

## BIOTECHNOLOGY

A SIGNATURE PROGRAM AT CAA

The advanced Biotechnology signature courses are offered at the Center for Academic Achievement (CAA). The introduction to biotechnology course is offered at each high school. The advanced courses outlined in this program are offered to all high school students within the district. District transportation is provided from the students' home high schools to the Center for Academic Achievement and back to the home high school.

Do you love adventure and discovery? Would you like to explore the unknown – map the uncharted inner space of chromosome and genes? Do you want to help society define the boundaries of genetic research? Then a career in biotechnology may be for you. There are tremendous career opportunities in health and bioscience related fields. Biotechnology, a signature program at the Center for Academic Achievement, is designed to assist students in developing research skills in biotechnology. Students will learn how procedures are used by scientists through field experiences in local laboratories.

Students enroll in the advanced biotechnology course sequence during their 10th, 11th or 12th grade year at the Center for Academic Achievement. The first course is Introduction to Biotechnology, which is offered at each high school. Students will gain introductory laboratory experience and develop the use of scientific processes including scientific reading and writing. The course is also designed to give an in-depth look at several different careers in biotechnology. The various biotechnology courses are described in the lower section for this program.

Students enroll in Biotechnology 1 during their 11th or 12th grade year. The Biotechnology 1 class is a 1 unit course where students gain authentic laboratory experience every day. Each student will practice the safe use of laboratory equipment and techniques currently utilized in the “real” biotechnology industry. Biotechnology 1 focuses on standard lab operating procedures.

The next course in the program sequence is Biotechnology 2H. This class is where students apply advanced experimental techniques used throughout industry including: pharmaceutical, agricultural and environmental. A One-Health approach is emphasized throughout the course. Biotechnology 2 focuses on recombinant DNA technology and protein production.

Biotechnology 3H encourage students to continue to develop advanced methods and techniques used in biotechnology and bioscience academia and industry. Students collaborate with each other and business partners/mentors to develop solutions to global issues in the agricultural and pharmaceutical arenas.

Students who complete the Biotechnology Signature Program curriculum (Introduction to Biotechnology, Biotechnology 1, Biotechnology 2H, and Biotechnology 3H) will receive a designation on their transcript as a graduate with an emphasis in biotechnology. Students may apply for advanced standing credit through Johnson County Community College or Manhattan Area Technical College.

### Biotechnology Career Options

Agricultural and Food Science Technicians	Geneticist
Biochemist/Research Assistant	Industrial Hygienist
Biophysicist	Lab Technician
Biosecurity Research Scientist	Materials Manager
Biostatistician	Medicinal Chemist
Biotechnologist	Media Prep Technician
Biotechnology Entrepreneur	Microbial Forensic Scientist
Chemical Technician	Microbiologist/Professor
Crop Physiologist	Pharmaceutical Developer
Environmental Research Scientist	Quality Control Analyst
Forensic Scientist/DNA Analyst	Research Scientist
Informatics Research Scientist	Sales Representative

# BIOTECHNOLOGY

A SIGNATURE PROGRAM AT CAA

## Suggested Program of Study

Grade 9	
ELA 1	1 unit
World Regional Studies	1 unit
Mathematics	1 unit
Science	1 unit
Health*	½ unit
Foundations of Physical Education	½ unit
World Language	1 unit
Elective	1 unit

Grade 10	
ELA 2	1 unit
Modern World History: Renaissance to the Present	1 unit
Mathematics	1 unit
Science	1 unit
World Language	1 unit
Biotechnology, Introduction to	½ unit
Elective	1 ½ unit

Grade 11	
ELA 3	1 unit
United States History	1 unit
Mathematics	1 unit
Science	1 unit
Physical Education	½ unit
Fine Arts	½ unit
Biotechnology 1	1 unit
Financial Literacy	½ unit
Elective	½ unit

Grade 12	
ELA 4	1 unit
American Government	½ unit
Mathematics	1 unit
Science	1 unit
Fine Arts	½ unit
Biotechnology 2H	1 unit
Biotechnology 3H	1 unit
Elective	1 unit

\* The health course may be taken in 10th grade.

**Additional Course Selections:**

Physical Science  
 Biology 1, 1H, 2 AP  
 Physics 1, 1H, 2AP

Introduction to Organic Chemistry  
 Human Anatomy and Physiology  
 Statistics, Statistics AP

Environmental Education 1, 2  
 Chemistry 1, 2, AP

SMSD CTE Pathways	
<b>Pathway: Health Science</b>	<b>Strand: Biotechnology</b>
<b>Intro Level</b>	Intro to Biotechnology (0.5)
<b>Technical Level</b>	Biotechnology 1 (1.0)
<b>Application Level</b>	Biotechnology 2 Honors (1.0)
	Biotechnology 3 Honors (1.0)

# BIOTECHNOLOGY

A SIGNATURE PROGRAM AT CAA

**BIOTECHNOLOGY, INTRODUCTION TO** Enrollment Based  
4154 *1/2 Unit Biological Science* 10,11,12

**Prerequisite – Biology**

This course is designed to give students an introduction to biotechnology including a description of the science of biotechnology; examples of careers; and job responsibilities associated with biotechnology. The course includes an in-depth look at several biotechnology careers available in the local area. Students will gain introductory laboratory experience and develop the use of scientific processes including scientific writing and reading. Intro to Biotechnology can be taken concurrently with Biotechnology 1. **This course is taught at all five high schools.**

**BIOTECHNOLOGY 1 / SLOP (CAA)**  
(Standard Laboratory Operating Procedure): Enrollment Based  
4133 *1 unit (2-hour block per semester)* 10,11,12

**Prerequisite – Biology 1 with “C” or better and Introduction to Biotechnology or concurrent enrollment**

This course is designed to provide students an authentic laboratory experience. Each student will practice the safe use of laboratory equipment and techniques currently utilized in the “real” biotechnology industry. Students will have many opportunities to apply the laboratory skills techniques and knowledge of scientific process to design authentic scientific research. Critical thinking and communication skills will be developed in order to effectively communicate results of data collection and interpretation. There is a course fee of \$30.00. Biotechnology 1 can be taken concurrently with Intro to Biotechnology.

**BIOTECHNOLOGY 2H (CAA)**  
(Recombinant DNA Technology and Protein Production) Enrollment Based  
4143 *1 unit (2-hour block per semester)* 10,11,12

**Prerequisite – Biotechnology 1 with a grade of A**

Students enrolled in Biotechnology 2 will apply advanced methods of investigation in the biotechnology and bioscience field. Each student will practice advanced techniques in such areas as recombinant DNA technology assay development and production/purification of proteins. The course includes opportunities to tour/job shadow local diagnostic and animal health laboratories. \*Honors credit requirement: participation/presentation of student’s original experimental research at a minimum 2 science symposia/competitions/science fairs. There is a course fee of \$30.00.

**BIOTECHNOLOGY 3H (CAA)**  
(Agriculture Biotech and Pharmaceuticals) Enrollment Based  
4145 *1 unit (2-hour block per semester)* 11,12

**Prerequisite – Biotechnology 2 with a grade of A**

In Biotechnology 3H, students will continue to develop advanced methods and techniques used in biotechnology and bioscience academia and industry. Students collaborate with each other and business partners/mentors to develop solutions to global issues including food production, health and environment. Honors credit requirement\* must be met in order to receive honors credit. There is a course fee of \$30.00. **This course is repeatable for credit.**

\*Meet all deadlines and present at 2 research symposia/competitions

**CONTEMPORARY COMMUNICATIONS IN BIOTECHNOLOGY (CAA)** Enrollment Based  
1640 *1/2 Unit* 11,12

**Prerequisite – ELA 2**

Contemporary Communications provides students with a blended learning environment by which they explore fundamentals of effective communication in the 21st century while enrolled in Shawnee Mission Signature Program courses at the Center for Academic Achievement. Students develop and apply skills in personal communication including critical thinking, speaking, listening, and written communications linked to the signature programs of study of their interest (i.e. Biotechnology.) Students will participate in ongoing activities aligned to Kansas English Language Arts standards while enhancing content linked directly to the respective signature programs. A significant portion of the course is conducted via on-line assignments and communication. **This blended format requires students to be attentive to assignment deadlines and electronic communications from the instructor.** This course is repeatable for credit.

# CULINARY ARTS AND HOSPITALITY

A SIGNATURE PROGRAM AT CAA

The Culinary Arts Signature Program prepares students for the multi-faceted hospitality career industry. Students participate in either the culinary or baking program of the award-winning Broadmoor Bistro where they focus on all aspects of restaurant entrepreneurship.

\*\*\*\*District transportation is provided to CAA for culinary program classes offered during regular school hours, but transportation is not provided for evening classes. Students must wear appropriate professional attire and may be required to purchase pants and shoes.

	<b>SMSD CTE Pathways</b>	
<b>Pathway: Restaurant &amp; Event Management Pathway</b>	<b>Strand: Culinary Arts &amp; Management</b>	<b>Strand: Event Planning &amp; Management</b>
<b>Intro Level</b>	Intro to Family & Consumer Sciences (taken in middle school)	
	Intro to Business (0.5)	
	Career & Life Planning (0.5)	
<b>Technical Level</b>	Focus on Foods (0.5)	
	Nutrition & Wellness (0.5)	
	Advanced Foods (0.5)	Catering Management & Event Planning (2.0)
	Culinary Arts 1 (1.0)	
	Commercial Baking 1 (1.0)	
<b>Application Level</b>	Table Service Internship (0.5)	
	Intro to Restaurant Management (1.5)	
	Culinary Arts 2 (1.0)	
	Commercial Baking 2 (1.0)	
	Applied Business Development (1.0)	

**COMMERCIAL BAKING 1: Semester 1 (CAA)**  
 Enrollment Based  
 6408      1 unit (2-hour block per semester)      10,11,12  
**Prerequisite – Focus on Foods**

This course is designed to introduce students to all facets of bread production, sweet dough, lean dough, and quick breads. Emphasis will be in scaling ingredients, kitchen math, and formula expansion. “6” Professional Learning Experiences are required for this class per semester. These will include opportunities at The Overland Park Farmers’ Market and special events both inside and outside of the school day. Students will use industrial equipment and will apply sanitation procedures to food production. Course cost is \$25.00 per semester for consumables. District transportation is provided to the Center for Academic Achievement during normal class hours. Transportation for Professional Learning Experience outside the class day is not provided. Credit may be applied toward the minimum fine arts graduation requirement.

**COMMERCIAL BAKING 1: Semester 2 (CAA)**  
 Enrollment Based  
 6408      1 unit (2-hour block per semester)      10,11,12  
**Prerequisite – Commercial Baking 1: Semester 1**

This course is designed to introduce students to basic bakeshop production principles in cakes, cookies, pies, and specialty baked goods. Continual emphasis in learning segments will be in scaling ingredients, kitchen math, and formula expansion. “6” Professional Learning Experiences are required for this class per semester. These will include opportunities at The Overland Park Farmers’ Market and special events both inside and outside of the school day. Students will use industrial equipment and will apply sanitation procedures to food production. Course cost is \$25.00 per semester for consumables. District transportation is provided to the Center for Academic Achievement during normal class hours. Transportation for Professional Learning Experience outside the class day is not provided. Credit may be applied toward the minimum fine arts graduation requirement.

# CULINARY ARTS AND HOSPITALITY

A SIGNATURE PROGRAM AT CAA

## COMMERCIAL BAKING 2: Semester 1 (CAA)

Enrollment Based

6409 1 unit (2-hour block per semester) 10,11,12

### Prerequisite – Commercial Baking 1: Semester 2

This course offers students an introduction to European formulas and the opportunity to further develop bread production skills in commercial applications, production sales, and cost analysis. Continual emphasis in learning segments will be in scaling ingredients, kitchen math, and formula expansion. “6” Professional Learning Experiences are required for this class per semester. These will include opportunities at The Overland Park Farmers’ Market and special events both inside and outside of the school day. Students will use industrial equipment and will apply sanitation procedures to food production. Course cost is \$25.00 per semester for consumables. District transportation is provided to the Center for Academic Achievement during normal class hours. Transportation for Professional Learning Experience outside the class day is not provided. Credit may be applied toward the minimum fine arts graduation requirement.

## COMMERCIAL BAKING 2: Semester 2 (CAA)

Enrollment Based

6409 1 unit (2-hour block per semester) 11,12

### Prerequisite – Commercial Baking 2: Semester 1

This course offers students an introduction to European formulas of cakes, tortes, pastry, and pies. With a continual emphasis in learning, segments will be in scaling ingredients, kitchen math, and formula expansion. “6” Professional Learning Experiences are required for this class per semester. These will include opportunities at The Overland Park Farmers’ Market and special events both inside and outside of the school day. Students will use industrial equipment and will apply sanitation procedures to food production. Course cost is \$25.00 per semester for consumables. District transportation is provided to the Center for Academic Achievement during normal class hours. Transportation for Professional Learning Experience outside the class day is not provided. Credit may be applied toward the minimum fine arts graduation requirement.

## CULINARY ARTS 1: Semester 1 (CAA)

Enrollment Based

6406 1 unit (2-hour block per semester) 10,11,12

### Prerequisite – Focus on Foods

This course offers students a practical introduction to culinary fundamentals, with a continual emphasis in learning, segments will be in scaling ingredients, kitchen math, and formula expansion. Students will experience safe food handling, mise en place, stocks, sauces, soups, and vegetable cookery. A minimum “6” Professional Learning Experiences are required for this class per semester. These will include opportunities at The Bistro, Catering and Event Management, Guest Chef Mentor Series and special events both inside and outside of the school day. Students will use industrial equipment and will apply sanitation procedures to food production. Course cost is \$25.00 per semester for consumables. District transportation is provided to the Center for Academic Achievement during normal class hours. Transportation for Professional Learning Experience outside the class day is not provided. Credit may be applied toward the minimum fine arts graduation requirement.

## CULINARY ARTS 1: Semester 2 (CAA)

Enrollment Based

6406 1 unit (2-hour block per semester) 10,11,12

### Prerequisite – Culinary Arts 1: Semester 1

This course offers students a practical introduction to culinary fundamentals. With a continual emphasis in learning, segments will be in scaling ingredients, kitchen math, and formula expansion. Students will experience classical cooking applications with meats, poultry, and seafood; with a focus in regional cuisine. A minimum “6” Professional Learning Experiences are required for this class per semester. These will include opportunities at The Bistro, Catering and Event Management, Guest Chef Mentor Series and special events both inside and outside of the school day. Students will use industrial equipment and will apply sanitation procedures to food production. Course cost is \$25.00 per semester for consumables. District transportation is provided to the Center for Academic Achievement during normal class hours. Transportation for Professional Learning Experience outside the class day is not provided. Credit may be applied toward the minimum fine arts graduation requirement.

## CULINARY ARTS 2 (CAA)

Enrollment Based

6407 2 units (2-hour block per semester, full year) 11,12

### Prerequisite – Culinary Arts 1: Semester 2

This course offers students a practical introduction to advanced applications in culinary fundamentals. A continual emphasis in learning, segments will be in scaling ingredients, kitchen math, and formula expansion. Students will experience today’s cooking trends, modernist cuisine, food science, special events, American Chef history. A minimum “6” Professional Learning Experiences are required for this class per semester. These will include opportunities at The Bistro, Catering and Event Management, Guest Chef Mentor Series and special events both inside and outside of the school day. Students will use industrial equipment and will apply sanitation procedures to food production. Course cost is \$25.00 per semester for consumables. District transportation is provided to the Center for Academic Achievement during normal class hours. Transportation for Professional Learning Experience outside the class day is not provided. Credit may be applied toward the minimum fine arts graduation requirement.

# CULINARY ARTS AND HOSPITALITY

A SIGNATURE PROGRAM AT CAA

## CATERING MANAGEMENT AND EVENT PLANNING 1 (CAA)

Enrollment Based  
6457 1 unit (Full year-This course will require students to access online learning materials and will require the students to perform both on and off campus catering events.) 10,11,12

### Prerequisite – None

This is an open elective course to experience career paths in the hospitality-restaurant industry. No experience necessary! All students will experience the world of entrepreneurial adventures in the catering and event industry within the local community. This hands-on class will model running a variety of hospitality businesses in formal, informal, and theme food events, while learning standard operational procedures of accounting, food production, contract law, and business marketing principles. Industry learning events can be outside the normal school day. Uniforms provided. Industry certification is available at the end of the semester. Personal transportation may be required for those events. The course is a blend of hands-on classroom training, active event management, and virtual classroom instruction. Online virtual learning will be a mixture of live and recorded sessions. Credit may be applied toward the minimum fine arts graduation requirement. **District transportation is not provided to Center for Academic Achievement for evening classes.**

This course will require students to access online learning materials and will require the students to perform both on and off campus catering events.

Event gratuity is shared with all student participants.

## INTRODUCTION TO RESTAURANT MANAGEMENT (CAA)

Enrollment Based  
6455 1 1/2 units (Full year, 10 hrs per week) 10,11,12

### Prerequisite – None

All students will experience Front of the House operations, Barista training, and Contemporary Farm to Table food production and menu development. In addition, students will be immersed in marketing and promotion, as well entrepreneurial activities. The course is held two evening per week, Tuesday from 3:30pm – 7:00pm and Wednesday from 3:30pm - 10:00pm. This course can be repeated for credit. District transportation is provided to The Center for Academic Achievement for culinary program classes offered during regular school hours, but transportation is not provided for evening classes. Students will receive ProStart National Certificate of Achievement (COA) upon successful completion of the ProStart examination.

**TABLE SERVICE INTERNSHIP (CAA)** Enrollment Based  
6460 1/2 unit (1 semester, 9hrs/week) 10,11,12

### Prerequisite – None

This class is a participative hands-on learning educational initiative in the Restaurant and Hospitality Industry. This “On The Job Training Internship” is available for any Shawnee Mission School District student that has an interest in acquiring employability and soft skills in the restaurant industry. Students will engage in all aspects of food and beverage service, table service, customer service, and Barista applications. Students receive all gratuities for service efforts throughout the course. The course is held two evenings per week, Tuesday from 4:00pm – 7:00pm (contingent upon special events) and Wednesday from 4:00pm - 10:00pm (contingent on reservations). This course can be repeated for credit. Students will receive ProStart National Certificate of Achievement (COA) upon successful completion of the ProStart examination. **District transportation is not provided to Center for Academic Achievement for evening classes.**

Event gratuity is shared with all student participants.

**CONTEMPORARY COMMUNICATIONS IN CULINARY ARTS (CAA)** Enrollment Based

1640 1/2 unit 11,12

### Prerequisite – ELA 2

Contemporary Communications provides students with a blended learning environment by which they explore fundamentals of effective communication in the 21st century while enrolled in Shawnee Mission Signature Program courses at the Center for Academic Achievement. Students develop and apply skills in personal communication including critical thinking, speaking, listening, and written communications linked to the signature programs of study of their interest (i.e. baking, culinary arts, etc.) Students will participate in ongoing activities aligned to Kansas English Language Arts standards while enhancing content linked directly to the respective signature programs. A significant portion of the course is conducted via on-line assignments and communication. **This blended format requires students to be attentive to assignment deadlines and electronic communications from the instructor.** This course is repeatable for credit.

## CULINARY ARTS / COMMERCIAL BAKING, INDEPENDENT STUDY (CAA)

Enrollment Based  
6998 1 unit (2-hour block per semester) 12

### Prerequisite – Culinary Arts 2 / Commercial Baking 2 and teacher recommendation

Research and development activities are conducted individually under the supervision and direction of the teacher. This course is repeatable for credit.

## ENGINEERING (PLTW®)

A SIGNATURE PROGRAM AT CAA

Project Lead The Way® signature courses are offered at the Center for Academic Achievement (CAA) with the exception of the introductory courses (IED and POE), which are offered at each of the Shawnee Mission High Schools as a part of the district engineering signature program. The advanced courses outlined in this program are offered at the Center for Academic Achievement and are open to all high school students within the district. District transportation is provided from the students' home high schools to the Center for Academic Achievement and back to the home high school.

The high school program for PLTW® introduces students to the scope, rigor, and discipline of engineering prior to entering college. There is a critical shortage of engineers and engineering technologists entering the profession at a time when technology is reinventing itself every few years. The number of jobs is increasing due to the surge in technical fields; however, today more than 1.3 million engineering-related jobs are left unfilled. The National Alliance for Pre-Engineering Programs developed PLTW goals to increase the quality and quantity of young people who are pursuing engineering and engineering technology careers.

Project Lead the Way® helps students learn to work in teams to solve real-world problems. Training includes the use of state-of-the-art computer software and technology. In the capstone course, Engineering, Design and Development, students apply principles developed in previous PLTW® courses and are guided by community mentors. Students brainstorm possibilities, research current patents and regulations, construct working models, test the models in real-life situations, document their designs, and present and defend the design to a panel of experts.

PLTW® will participate with the Partnership Team comprised of representatives from higher education, engineering businesses, and the community. Members of the Partnership Team support the PLTW® curriculum, serve as mentors to student teams, and speak to students about engineering and technology.

College credit is available for some PLTW courses, but should be tailored to the university to which the student is planning to attend.

A student who completes three of the Project Lead the Way® courses offered as of his/her graduation year will receive a transcript designation indicating that the student graduated with an emphasis in engineering.

SMSD CTE Pathways	
<b>Pathway: Engineering &amp; Applied Mathematics</b>	<b>Strand: Engineering &amp; Applied Mathematics</b>
<b>Intro Level</b>	Gateway to Technology - Automation & Robotics (taken in middle school)
	Gateway to Technology - Design & Modeling (taken in middle school)
	Computer Dimensions 2 (taken in middle school) <u>or</u> Microsoft Business Applications (0.5)
<b>Technical Level</b>	Introduction to Engineering Design (1.0)
	Principles of Engineering Design H (1.0)
	Robotics (1.0)
<b>Application Level</b>	Civil Engineering & Architecture H (1.0)
	Digital Electronics H (1.0)
	Aerospace Engineering H (1.0)
	Engineering Design & Development H (1.0)
	Advanced Concepts in CAD H (1.0)
	Environmental Sustainability (1.0)

# ENGINEERING (PLTW®)

A SIGNATURE PROGRAM AT CAA

## Suggested Program of Study

Grade 9	
ELA 1	1 unit
World Regional Studies	1 unit
Mathematics (Algebra 1)	1 unit
Laboratory Science	1 unit
Introduction to Engineering Design	1 unit
Health*	½ unit
World Language	1 unit
Elective	½ unit

Grade 10	
ELA 2	1 unit
Modern World History: Renaissance to the Present	1 unit
Mathematics (Geometry or beyond)	1 unit
Science	1 unit
Foundations of Physical Education	½ unit
Principles of Engineering H	1 unit
Computer Applications	1/2 unit
World Language	1 unit

Grade 11	
ELA 3	1 unit
United States History	1 unit
Mathematics (Algebra 2 or beyond)	1 unit
Science	1 unit
Digital Electronics H, Civil, OR	1 unit
Engineering and Architecture H OR	
Aerospace Engineering H	
Financial Literacy	½ unit
Elective	1 ½ unit

Grade 12	
ELA 4	1 unit
American Government	½ unit
Mathematics (College Algebra/Trig or beyond)	1 unit
Science	1 unit
Fine Arts	1 unit
Engineering Design and Development H	1 unit
Physical Education	½ unit
Elective	1 unit

\* The health course may be taken in 10th grade.

## Engineering Career Options

- |                            |                        |
|----------------------------|------------------------|
| Aerospace Engineer         | Engineering Manager    |
| Architectural Engineer     | Engineering Technician |
| Bioengineer                | Environmental Engineer |
| Chemical Engineer          | Industrial Engineer    |
| Civil Engineer             | Mechanical Engineer    |
| Computer Software Engineer | Nuclear Engineer       |
| Electrical Engineer        | Systems Engineer       |

**INTRODUCTION TO ENGINEERING DESIGN** Enrollment Based  
6769 1 unit 9,10,11,12

**Prerequisite – Completion of or concurrent enrollment in Algebra 1**

This course will focus on the process of design, development, analysis, and evaluation of products. Students will learn to apply the design process as it relates to invention and innovation. Among the skills that students will develop are sketching and the use of 3D modeling software. Emphasis is placed on teamwork and communication. Credit may be applied toward the minimum fine arts graduation requirement. This course is taught at all five high schools. Additional courses may be taken in the Project Lead the Way (PLTW) Signature Program.

**PRINCIPLES OF ENGINEERING H** Enrollment Based  
6784 1 unit 10,11,12

**Prerequisite – Introduction to Engineering Design or Design 1, Introduction to Computer-Aided Design, concurrent enrollment in science, completion of or concurrent enrollment in Geometry or teacher recommendation**

Students study the fields of Engineering and Engineering Technology.

Students will learn to solve problems related to simple machines, fluid power, electricity, structures and materials, and trajectory motion. Projects are integrated into all units of study. This course is taught at all five high schools.

**ENGINEERING (PLTW®)**

A SIGNATURE PROGRAM AT CAA

**CIVIL ENGINEERING AND ARCHITECTURE H (CAA)**

Enrollment Based

6780 1 unit (2-hour block per semester) 11,12

**Prerequisite – Introduction to Engineering Design, completion of or concurrent enrollment in Algebra 2, concurrent enrollment in science**

This course covers various aspects of civil engineering and architecture. Students apply knowledge of project planning, site planning, building design, project documentation and project presentation. The major focus of the course is a long-term project involving the development of a local property site. Students will use state-of-the-art 3D design software to design and document solutions.

**DIGITAL ELECTRONICS H (CAA)**

Enrollment Based

6785 1 unit (2-hour block per semester) 11,12

**Prerequisite – Introduction to Engineering Design, completion of or concurrent enrollment in Algebra 2, concurrent enrollment in science**

From smartphones to appliances, digital circuits are all around us. This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices. Students will develop, test, and analyze their own digital circuitry designs.

**AEROSPACE ENGINEERING H (CAA)**

Enrollment Based

6782 1 unit (2-hour block per semester) 11,12

**Prerequisite – Introduction to Engineering Design, completion of or concurrent enrollment in Algebra 2, and concurrent enrollment in science**

Students are introduced to the world of aeronautics, flight, and engineering through hands-on, project-based activities. The course of study includes aerodynamics and aerodynamics testing, flight systems, astronautics, space life systems, aerospace materials, and systems engineering.

**ADVANCED CONCEPTS IN COMPUTER AIDED DESIGN H (CAD) (CAA)**

Enrollment Based

6762 1 unit (2-hour block per semester) 11,12

**Prerequisite – Introduction to Engineering Design and/or Design 1 CAD**

This course provides students an opportunity to advance their knowledge in either the mechanical or architectural field as it relates to CAD and computer modeling. Students will design and present a project with full documentation. It is an expectation that the student will become skilled enough to become certified in one software program of their choice. Autodesk certifications are a reliable validation of skill and knowledge, and can lead to accelerated professional development, improved productivity, and enhanced credibility. Students will also create a portfolio illustrating their skill and employability. Industry internships will be researched and sought for highly skilled students.

**ENGINEERING DESIGN AND DEVELOPMENT H (CAA)**

Enrollment Based

6783 1 unit (2-hour block per semester) 12

**Prerequisite – Introduction to Engineering Design, Principles of Engineering H, Algebra 2, concurrent enrollment in math and science recommended**

Students will work in teams to research, design, and construct a solution to an engineering problem of their choice. The teams apply principles developed in preceding Project Lead the Way® courses and are guided by community mentors. They brainstorm possibilities, research current patents and regulations, construct a working model, test the model in real-life situations or simulations, document their designs, and present and defend the design with intent to develop the product.

**ENVIRONMENTAL SUSTAINABILITY**

Enrollment Based

4140 1/2 unit at each high school 11,12

**Prerequisite – Recommended: Introduction to Engineering Design**

Students will investigate and design solutions to solve real-world challenges related to clean drinking water, a stable food supply, and renewable energy. Students will be introduced to environmental issues and use the engineering design process to research and design potential solutions. Using problem-based learning, students will solve open-ended projects and problems that will require them to develop planning, documentation, communication, and other professional skills.

**CONTEMPORARY COMMUNICATIONS IN ENGINEERING (CAA)**

Enrollment Based

1640 1/2 unit 11,12

**Prerequisite – ELA 2**

Contemporary Communications provides students with a blended learning environment by which they explore fundamentals of effective communication in the 21st century while enrolled in Shawnee Mission Signature Program courses at the Center for Academic Achievement. Students develop and apply skills in personal communication including critical thinking, speaking, listening, and written communications linked to the signature programs of study of their interest (i.e. engineering). Students will participate in ongoing activities aligned to Kansas English Language Arts standards while enhancing content linked directly to the respective signature programs. A significant portion of the course is conducted via on-line assignments and communication. **This blended format requires students to be attentive to assignment deadlines and electronic communications from the instructor.** This course is repeatable for credit.

## INTERNATIONAL BACCALAUREATE

A SIGNATURE PROGRAM AT SME, SMN AND SMNW

The International Baccalaureate (IB) Program is a two-year, college preparatory program with a comprehensive curriculum designed to address the needs of academically driven, challenge-seeking students. Upon successful completion of the diploma program, including achievement of the requisite diploma points, students may earn the IB diploma, which is recognized throughout the world by universities and colleges. Universities and colleges often offer advanced standing, preferential admission, and financial benefits to diploma earners.

To earn a diploma, students must attain a satisfactory composite score on an extended essay, a Theory of Knowledge course, the Creativity, Activity and Service component, and a course in each of six academic groups: English, World Language, History, Science, Math, and Arts and other electives. Three of the courses must be higher level (HL) and three standard levels (SL), which is dictated by curriculum. Most courses are two years in length, but all courses require a concluding assessment. Students who wish to participate in IB but not obtain a diploma can take individual classes for recognition via certificate.

The IB program provides the knowledge and critical-thinking skills students require to compete in a global context. Desired outcomes of the program include students who are inquirers, knowledgeable, thinkers, communicators, principled, open-minded, caring, risk-takers, balanced, and reflective. To prepare for this endeavor, a student should enroll in challenging classes as a freshman and a sophomore.

Program costs for registration, exams, external assessments, and miscellaneous costs are the responsibility of the IB diploma students. These fees are assessed at the beginning of the junior year. Fees for IB diploma candidates are established annually by the International Baccalaureate Organization. Fees are assessed both junior and senior year and include program registration and examination fees. The current fee is \$443.00 (2017-2018 school year).

The current course certificate candidate registration fee is \$172.00 (2017-2018 school year). Students are also responsible for the individual exam fees which are set annually by the International Baccalaureate Organization. The fee for course testing in 2018 is \$119.00 (2017-2018 school year). Fees are subject to change based upon the fee structure established by the International Baccalaureate Organization.

For further information, please visit <http://signature.smsd.org/ib/pages/default.aspx>.

# INTERNATIONAL BACCALAUREATE

A SIGNATURE PROGRAM AT SME, SMN AND SMNW

## IB Course Selection

SL = Standard Level HL = High Level (H) = Honors Credit

Courses offered at all three high schools except when noted.

E=East; N= North; NW=Northwest

### Group 1 -- Language A: Literature

Course#	Course Title	Grade
1155	IB English HL1 (H)	11
1633	IB English HL2 (H)	12

### Group 2 -- Language B

Course#	Course Title	Grade
5151	Latin 3 SL E; NW	11
5152	Latin 4 SL (H) E; NW	12
5118	German 3 SL NW	11
5119	German 4 SL (H) NW	12
5404	Japanese 3 SL NW	11
5406	Japanese 4 SL (H) NW	12
5031	IB French 3	11
5067	IB French 4 SL E	11,12
5068	IB French 5 SL 1/HL 1 (H)	11,12
5069	IB French 6 SL 2/HL 2 (H)	11,12
5181	IB Spanish 3	11
5222	IB Spanish 4 SL	11,12
5223	IB Spanish 5 SL (H)	11,12
5224	IB Spanish 6 SL (H)	12
5223	IB Spanish 5 SL 1/HL 1 (H)	11,12
5224	IB Spanish 6 SL 2/HL 2 (H)	12

Senior year completion of at least level 5 in French and Spanish is preferred for IB testing.

### Group 3 -- Individuals and Society

Course#	Course Title	Grade
3393	IB History HL 1(H)	11
3394	IB History HL 2(H) -- European NW	12
3168	IB History HL 1( H) -- History of the Americas	11
3169	IB History HL 2(H) -- History of the Americas (.5)	12
3191	Honors American Gov. for IB students (.5)	11
	IB Psychology (see group 6)	

## Group 4 -- Experimental Science

Course#	Course Title	Grade
4144	IB Biology 2 SL (H) E	12
4152	IB Biology HL 1 (H) N, NW	11
4153	IB Biology HL 2 (H) N, NW	12
4172	IB Chemistry SL 1 (H)	11
4173	IB Chemistry SL 2 (H)	11,12
4218	IB Physics SL 1 (H) E, NW	11
4219	IB Physics SL 2 (H) E, NW	12

## Group 5-- Mathematics

Course#	Course Title	Grade
2073	IB Math Studies SL 1 N, E	11
2074	IB Math Studies SL 2 N, E	12
2071	IB Math SL 1 (H)	11
2072	IB Math SL 2 (H)	12
2075	IB Math HL 1 (H)	11
2076	IB Math HL 2 (H)	12

## Group 6-- The Arts and Electives

Course#	Course Title	Grade
7637	IB Visual Arts SL1 (H) E	11
7644	IB Visual Arts SL 2 (H) E	12
7641	IB Visual Arts SL (H) NW	11,12
7642	IB Visual Arts HL 1 (H) E, NW	11
7643	IB Visual Arts HL 2 (H) E, NW	12
8176	IB Dance SL 1 E	11
8177	IB Dance SL 2 E	12
7311	IB Music SL (H)	11,12
7284	IB Music HL 1 (H) E, NW	11
7285	IB Music HL 2 (H) E, NW	12
7286	IB Film Studies SL N, NW	11,12
7287	IB Film Studies HL (H) N, NW	11
7288	IB Film Studies HL 2 (H) N, NW	12
3362	IB Psychology SL (H) N, NW	11,12
3363	IB Psychology HL 1 (H)	11
3364	IB Psychology HL 2 (H)	12

Additional Requirements of the IB Diploma		
3602,3603	IB Theory of Knowledge	11
3604	IB Theory of Knowledge	12
	Extended Essay	11,12
		11,12

# INTERNATIONAL BACCALAUREATE

A SIGNATURE PROGRAM AT SME, SMN AND SMNW

## Group 1, Language A

<b>IB ENGLISH HL1 (H)</b>	Enrollment Based
1155 1 unit	11

**Prerequisite – English 10 (H) is recommended**

<b>IB ENGLISH HL2 (H)</b>	Enrollment Based
1633 1 unit	12

**Prerequisite – IB English 11 (H)**

This is a two-year course designed to give students an appreciation and understanding of the English language and literature, as well as translated works from other countries. Students will analyze literature and draw connections among literary works and develop an appreciation of the works and the authors. In addition, students will structure ideas and arguments in a logical, sustained, and persuasive manner.

## Group 2, Language B

<b>IB LATIN 3 SL</b>	Enrollment Based
5151 1 unit	11

**Prerequisite – Latin 2**

<b>IB LATIN 4 SL (H)</b>	Enrollment Based
5152 1 unit	12

**Prerequisite – IB Latin 3 SL**

This two-year course sequence offers an advanced study of Latin literature, culture, and history. Authentic prose and poetry by various authors are read and analyzed for technique and style. Students will study classical civilization, myths, legends, religion, history, government, social behavior, the arts, and architecture. Students will prepare for all IB assessments. Students enrolled in Latin 4 SL (H) may be eligible for JCCC credit (College Now).

<b>IB GERMAN 3 SL</b>	Enrollment Based
5118 1 unit	11,12

**Prerequisite – German 2**

<b>IB GERMAN 4 SL (H)</b>	Enrollment Based
5119 1 unit	12

**Prerequisite – German 3 SL**

This course sequence reviews the basic structures of the language with further study of the more technical details. Students will be able to communicate in a range of situations, both written and spoken, and handle the language grammar and syntax accurately in a manner appropriate to cultural and social context.

<b>IB JAPANESE 3 SL</b>	Enrollment Based
5404 1 unit	11,12

**Prerequisite – Japanese 2**

<b>IB JAPANESE 4 SL (H)</b>	Enrollment Based
5406 1 unit	12

**Prerequisite – Japanese 3 SL**

This course sequence reviews the basic structures of the language with further study of the more technical details. Students will be able to communicate in

a range of situations, both written and spoken, and handle the language grammar and syntax accurately in a manner appropriate to cultural and social context.

<b>IB FRENCH 3</b>	Enrollment Based
5031 1 unit	11

**Prerequisite – French 2**

French 3 IB emphasizes oral and written language through the continued study of conversation, writings, readings, grammar, and vocabulary. Students increase their knowledge of the French-speaking world, which helps them to better understand their own culture. Active use of the language in the classroom is encouraged, with a view toward the oral section of the IB examination. NOTE: Study of the language is highly recommended starting in middle school.

<b>IB FRENCH 4 SL</b>	Enrollment Based
5067 1 unit	11,12

**Prerequisite – French 3**

<b>IB FRENCH 5 SL (H)</b>	Enrollment Based
5068 1 unit	11,12

**Prerequisite – French 4 SL**

<b>IB FRENCH 6 SL (H)</b>	Enrollment Based
5069 1 unit	12

**Prerequisite – French 5 SL**

A sequence of two of the three standard level (SL) courses completes review of the basic structures of the language with further study of the more complex structures and technical details. Students will be able to communicate in a range of situations, both written and spoken, and handle the language, grammar, and syntax accurately in a manner appropriate to cultural and social context. Students enrolled in French 4 and French 5 SL may be eligible for JCCC credit (College Now). NOTE: Study of French is highly recommended starting in middle school.

<b>IB SPANISH 3</b>	Enrollment Based
5181 1 unit	11

**Prerequisite – Spanish 2**

Spanish 3 IB emphasizes oral and written language through the continued study of conversation, writings, readings, grammar, and vocabulary. Students increase their knowledge of the Spanish-speaking world which helps them to better understand their own culture. Active use of the language in the classroom is encouraged for preparation for the oral component of the IB examination. NOTE: Study of the language is highly recommended starting in middle school.

<b>IB SPANISH 4 SL</b>	Enrollment Based
5222 1 unit	11,12

**Prerequisite – Spanish 3**

<b>IB SPANISH 5 SL (H)</b>	Enrollment Based
5223 1 unit	11,12

**Prerequisite – Spanish 4 SL**

# INTERNATIONAL BACCALAUREATE

A SIGNATURE PROGRAM AT SME, SMN AND SMNW

<b>IB SPANISH 6 SL (H)</b>	Enrollment Based
5224	12
<i>1 unit</i>	

**Prerequisite – Spanish 5 SL**

This course sequence reviews the structure of the language with further study of the more technical details. Upon completion, students will be prepared to communicate in a range of situations, written and spoken. They also will be able to handle the language, grammar, and syntax accurately in a manner appropriate to cultural and social context. NOTE: Study of Spanish is highly recommended starting in middle school. Students enrolled in Spanish 4 and Spanish 5 SL may be eligible for JCCC credit (College Now)

## Group 3, Individuals and Society

<b>IB HISTORY HL 1 (H) – EUROPEAN</b>	Enrollment Based
3393	11
<i>1 unit</i>	

**Prerequisite – US History**

<b>IB HISTORY HL 2 (H) – EUROPEAN</b>	Enrollment Based
3394	12
<i>1 unit</i>	

**Prerequisite – IB History HL 1 (H)**

This course sequence focuses on international relations of the 20th century and the major events impacting the structure of the 20th century world. The regions of Europe and the Middle East are the primary focus. Students will learn how to analyze and evaluate historical evidence and current political and social events.

<b>IB HISTORY OF THE AMERICAS HL 1 (H)</b>	Enrollment Based
3168	11
<i>1 unit</i>	

**Prerequisite – European History AP is strongly recommended**

Over the two years, students will cover all of United States history, and will also focus on history of Canada, and some of Latin America. They will also explore America's role in international events in the 20th century, with emphasis on peacemaking between the world wars, the Cold War, and America's changing roles. In addition, they will be trained in examining historical documents, to prepare them for the HL exam at the end of the second year.

<b>IB HISTORY OF THE AMERICAS HL 2 (H)</b>	Enrollment Based
3169	12
<i>1/2 unit (semester 2)</i>	

**Prerequisite – IB History of the Americas 1 (H)**

This course focuses on America's history since 1900, and emphasizes the roles of single party states, wars, and the Cold War period in 20th century world issues. In conjunction with the junior year course, the students cover all of U.S. history graduation requirement. At the conclusion of the year, students are prepared for the higher level Group 3 IB examinations.

<b>IB HONORS AMERICAN GOVERNMENT for IB Students (H)</b>	Enrollment Based
3191	11
<i>1/2 unit</i>	

**Prerequisite – IB History of the Americas HL 1(H)**

The content in the American Government portion of the IB program allows students to earn the required credit for graduation. This course focuses on the three branches of government, with special emphasis on civil liberties and civil rights. This course builds on the junior year introduction of the creation of the U.S. Constitution and government.

## Group 4, Experimental Sciences

<b>IB BIOLOGY HL 1(H)</b>	Enrollment Based
4152	11
<i>1 unit</i>	

**Prerequisite – Chemistry 1**

<b>IB BIOLOGY HL 2(H)</b>	Enrollment Based
4153	12
<i>1 unit</i>	

**Prerequisite – IB Biology HL 1(H)**

This two-year course sequence enables students to communicate and collaborate on biological concerns of global importance. Students will enhance experimental and investigative skills using appropriate technology. Analysis, evaluation, and synthesis of scientific information will occur. Scientific disciplines will be integrated to provide students with a functional understanding of living systems.

<b>IB CHEMISTRY SL 1 (H)</b>	Enrollment Based
4172	11
<i>1 unit</i>	

**Prerequisite – Algebra 2 and Biology 1**

<b>IB CHEMISTRY SL2 (H)</b>	Enrollment Based
4173	12
<i>1 unit</i>	

**Prerequisite – IB Chemistry SL 1 (H)**

These courses are designed to provide students with an understanding of chemical processes and their applications universally. Students will develop scientific, experimental, investigative, and technological skills specific to chemistry. Individual creativity and collaboration will be stressed as students synthesize scientific information and become more cognizant of the social, ethical, and environmental implications of science as a field.

<b>IB ENVIRONMENTAL SYSTEMS AND SOCIETIES SL</b>	Enrollment Based
4174	11, 12
<i>1 unit</i>	

**Prerequisite – Environmental Education 1**

The course provides students with a coherent perspective of the interrelationships between environmental systems and societies. This perspective enables students to adopt an informed personal response to the wide range of pressing environmental issues that they will inevitably come to face. Students will be challenged to evaluate the scientific, ethical, and socio-political aspects of these issues.

# INTERNATIONAL BACCALAUREATE

A SIGNATURE PROGRAM AT SME, SMN AND SMNW

## Group 5, Mathematics

<b>IB MATH STUDIES SL 1</b>	Enrollment Based
2073	11
1 unit	

**Prerequisite – Geometry or teacher recommendation**

<b>IB MATH STUDIES SL 2</b>	Enrollment Based
2074	12
1 unit	

**Prerequisite – IB Math Studies 1 SL 1**

This course sequence emphasizes an approach to mathematics with concepts, results, and problems being expressed geometrically, numerically, analytically, and verbally. Topics include linear, quadratic and exponential functions, set theory and logic, sequences, statistics, linear programming, vectors, matrices, and trigonometry. Students develop the skills needed to address the mathematical demands of a technological society.

<b>IB MATH SL1 (H)</b>	Enrollment Based
2071	11, 12
1 unit	

**Prerequisite – Algebra 2, Algebra 2 (H) recommended**

<b>IB MATH SL 2 (H)</b>	Enrollment Based
2072	12
1 unit	

**Prerequisite – IB Math Studies 1 SL 1**

This two-year course sequence emphasizes an approach to mathematics with concepts, results, and problems being expressed geometrically, numerically, analytically, and verbally. Topics include quadratic, exponential and logarithmic function, vectors, matrices, statistics, trigonometry, limits, differential and integral calculus.

<b>IB MATH STUDIES SL 1</b>	Enrollment Based
2075	11
1 unit	

**Prerequisite – Precalculus (H) recommended**

<b>IB MATH HL 2 (H)</b>	Enrollment Based
2076	12
1 unit	

**Prerequisite – IB Math HL 1 (H)1**

This two-year course sequence emphasizes an approach to mathematics with concepts, results, and problems expressed geometrically, numerically, analytically, and verbally. Students will use technology to support conclusions drawn to solve mathematical applications. Topics include applications of functions, statistics, vectors, limits, differential and integral calculus, discrete mathematics, proof by mathematical induction, linear algebra and differential equations.

<b>IB VISUAL ARTS SL 1 (H)</b>	Enrollment Based
7637	11
1 unit	

**Prerequisite – Teacher recommendation**

## Group 6, The Arts & Electives

<b>IB VISUAL ARTS SL 2 (H)</b>	Enrollment Based
7644	12
1 unit	

**Prerequisite – IB Visual Arts SL 1**

Visual arts courses are designed to provide students the opportunity to express themselves visually while maintaining creative control over their course through personal exploration guided by their instructor. The student will learn to explore cultural and contemporary media as well as identify and acknowledge past masters. Students will critique and reflect on all work and acquire sufficient vocabulary and skill to engage in discussions on aesthetics and the value of art. Students desiring a one year SL are prepared to test at the conclusion of SL 1.

<b>IB VISUAL ARTS SL 2 (H)</b>	Enrollment Based
7641	11
1 unit	

**Prerequisite – Teacher recommendation**

<b>IB VISUAL ARTS HL 1 (H)</b>	Enrollment Based
7642	11
1 unit	

**Prerequisite – Teacher recommendation**

<b>IB VISUAL ARTS HL 2 (H)</b>	Enrollment Based
7643	12
1 unit	

**Prerequisite – IB Visual Arts HL 1 (H)**

Visual arts courses are designed to provide students the opportunity to express themselves visually while maintaining creative control over their course through personal exploration. The student will learn to explore cultural and contemporary media as well as identify and acknowledge past masters. Students will critique and reflect on all work and acquire sufficient vocabulary and skill to engage in discussions on aesthetics and the value of art.

<b>IB Dance SL 1(SME)</b>	Enrollment Based
8176	11
1 unit	

**Prerequisite – Must be a Lancer Dancer**

<b>IB Dance SL 2 (SME)</b>	Enrollment Based
8177	12
1 unit	

**Prerequisite – Must be a Lancer Dancer**

This select dance group will build dance knowledge and skills in technique, improvisation, choreography, artistic expression, performance, history, culture, like skills and connection to other IB courses. Emphasis will be on creating, performing, and responding to different cultures, traditions and histories of dance.

<b>IB MUSIC SL (H)</b>	Enrollment Based
7311	11, 12
1 unit	

**Prerequisite – Teacher recommendation**

<b>IB MUSIC HL 1 (H)</b>	Enrollment Based
7284	11
1 unit	

**Prerequisite – Teacher recommendation**

# INTERNATIONAL BACCALAUREATE

A SIGNATURE PROGRAM AT SME, SMN AND SMNW

<b>IB MUSIC HL 2 (H)</b>	Enrollment Based
7285 <span style="float: right;">1 unit</span>	12

**Prerequisite – IB Music HL 1 (H)**

This course or course sequence is designed for music students with varied backgrounds in music performance, either solo and/or group performers. The aim of the IB music program is to give students the opportunity to explore and enjoy the diversity of music throughout the world by enabling them to creatively develop their knowledge, abilities, and understanding through performance and composition. Students will be expected to demonstrate their understanding of music by using appropriate musical language and terminology in analyzing musical works from many and varied cultures and periods, and by exploring their own composition writing. All IB students must take this course in conjunction with one of the school's large ensembles (Band, Orchestra, or Choir). If a student is not a member of one of the ensembles, they need to check with the IB Music teacher to make sure they have a way to fulfill the performance requirement of the IB Music Course.

<b>IB FILM STUDIES SL</b>	Enrollment Based
7286 <span style="float: right;">1 unit</span>	11,12

**Prerequisite – None**

Students will gain skills in both interpreting and making films. Students will study film history and theory enabling them to develop an appreciation of the art of film. In addition, students will learn technical skills in the art of film making. Students will work individually and in groups to demonstrate their knowledge and technical skills as well as their creativity. The IB requirements for this course are an oral presentation, a 1500 word essay, and a creation of a short film. Some after school work is required. Credit in this course may be applied toward the minimum fine arts graduation credit requirement.

<b>IB FILM STUDIES HL 1</b>	Enrollment Based
7287 <span style="float: right;">1 unit</span>	11

**Prerequisite – None**

<b>IB FILM STUDIES HL 2</b>	Enrollment Based
7288 <span style="float: right;">1 unit</span>	12

**Prerequisite – IB Film Studies HL 1**

Students will develop creative skills, theoretical understanding, and textual analysis of films. Students will study film history and theory enabling them to develop an appreciation of the art of film. In addition, students will learn technical skills in the art of film making. Students will work individually and in groups to demonstrate their knowledge and technical skills as well as their creativity. The IB requirements for this course are an oral presentation, a 1750 word essay, and a creation of a short film with an accompanying trailer. Some after school work is required. Credit in this course may be applied toward the minimum fine arts graduation requirement.

<b>IB PSYCHOLOGY SL (H)</b>	Enrollment Based
3362 <span style="float: right;">1 unit</span>	11,12

**Prerequisite – Recommend Psychology 1**

This course focuses on the systematic study of human thinking, behavior, and experience. Students will interpret and conduct research, examine ethical issues, and develop an understanding of the different levels of analysis and

influences on human behavior. Students will study three core levels of analysis (biological, cognitive, and learning) as well as one study option on Abnormal Psychology.

<b>IB PSYCHOLOGY HL1 (H)</b>	Enrollment Based
3363 <span style="float: right;">1 unit</span>	11

**Prerequisite – None**

<b>IB PSYCHOLOGY HL 2 (H)</b>	Enrollment Based
3364 <span style="float: right;">1 unit</span>	11,12

**Prerequisite – IB Psychology SL/HL 1 (H)**

Students will study human thinking, behavior, and experience. This course will expand upon the levels of analysis of the standard level course through study of qualitative research methods. Students will study an additional option on Developmental Psychology. The course provides the opportunity to compare thinking and behavior among different cultures as well as examining research from other countries.

## Additional Requirements of the IB Diploma

<b>IB THEORY OF KNOWLEDGE</b>	Enrollment Based
3602,3603 <span style="float: right;">1/2 unit</span>	11

**Prerequisite – Concurrent enrollment in IB diploma program**

<b>IB THEORY OF KNOWLEDGE</b>	Enrollment Based
3604 <span style="float: right;">1/2 unit</span>	12

**Prerequisite – Concurrent enrollment in IB diploma program**

This interdisciplinary course challenges students to reflect critically on diverse areas of knowledge and to consider the role which knowledge plays in a global society. The course encourages students to become aware of themselves as thinkers, to become aware of the complexities of knowledge, and to recognize the need to act responsibly in an increasingly interconnected world. The aim of this program is to engage students in reflection on, and in the questioning of, the bases of knowledge. The course is designed to be taken over a two-year period for a total of 1 unit of credit.

<b>EXTENDED ESSAY</b>	11,12
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The extended essay is a requirement for students to engage in independent research through an in-depth study of a question relating to one of the subjects they are studying. This is completed over the junior and senior year with the assistance of an academic mentor.

<b>CAS</b>	11,12
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Creativity, action, service requires that students actively learn from the experience of doing real tasks beyond the classroom. Students can combine all three components or do activities related to each one of them separately. The CAS requirement is completed over both years of the IB Program.

# MEDICAL HEALTH SCIENCE

A SIGNATURE PROGRAM AT CAA

The Medical Health Science signature courses are offered at the Center for Academic Achievement except for the exploring medical health careers course, which is offered at each high school. The advanced courses outlined in this program are offered at the Center for Academic Achievement and are open to all high school students within the district. District transportation is provided from the students' home high schools to the Center for Academic Achievement and back to the home high school.

The Medical Health Science Signature Program is designed to provide students with opportunities to investigate the competitive field of health care. The program enables students who are interested in pursuing a health care future to broaden their knowledge through enhanced curriculum and experience-based activities. As students progress through the Medical Health Science curriculum, learning experiences are designed to fit future interests, providing deeper understanding and preparation for pre-professional post-secondary programs.

Within the Medical Health Science Signature Program, students are able to select a Plan of Study that fits best with future postsecondary and career goals. Upon successful completion of the Plan of Study, a designation on the official transcript will be made indicating an emphasis of coursework in Pre-Medical Studies or Professional Health Studies.

## Pre-Medical Health Studies

This strand of the Medical Health Science Signature Program emphasizes a rigorous math and science curriculum. In addition to an emphasis of learning opportunities focused on health care skills in this Signature Program, students' academic preparation supports undergraduate work that leads to pursuit of an advanced graduate degree.

### Professional Pursuits

Chiropractic	Pediatric Medicine
Dentistry	Pharmacy
Family Medicine	Physical Therapy
Internal Medicine	Rehabilitation Specialist
Optometry	Sports Medicine
	Veterinary Care

## Professional Health Studies

Students planning to pursue a degree in a healthcare related field discover participation in the Professional Health Studies strand of the Medical Health Science Signature Program prepares them for postsecondary success. Program participants are immersed in the language of health care and develop basic technical skills along with "success skills", such as teamwork, communication, problem solving and critical thinking.

### Professional Pursuits

Athletic Training	Eye Care
Animal Care Specialist	Medical Imaging/Sonography
Certified Nursing Assistant (CNA)	Nursing
Clinical Lab Specialist	Recreational Therapy
Dental Hygienist	Rehabilitation Services
Emergency Response	Social Work

# MEDICAL HEALTH SCIENCE

A SIGNATURE PROGRAM AT CAA

## SMSD CTE Pathways

Pathway: Health Science	Strand: Medical Science	Strand: Sports Medicine	Strand: CNA
<b>Intro Level</b>	Exploring Medical Health Careers (0.5)		
<b>Technical Level</b>	Medical Health Science 1 (1.0)		
	Human Anatomy & Physiology (1.0)		
	Nutrition & Wellness (0.5)	Sports Medicine 1 (1.0)	
<b>Application Level</b>	Medical Health Science 2 (3.0)	Tentative, 2019-2020: Sports Medicine 2 (0.5)	Certified Nursing Assistant (1.0)
	Forensic Science 1 (0.5)	Tentative 2019-2020: Prevention & Treatment of Injuries (0.5)	
	Forensic Science 2 (0.5)		

### PRE-MEDICAL STUDIES: Suggested Program of Studies

Expected coursework for students pursuing the Pre-Medical Studies designation includes:

- |                                     |             |                                |
|-------------------------------------|-------------|--------------------------------|
| * Exploring Medical Science Careers | * Calculus  |                                |
| * Medical Health Science 1          | * Physics   | * AP Biology 2                 |
| * Medical Health Science 2          | * Chemistry | * Human Anatomy and Physiology |

### Suggested Program of Study: Pre-Medical Studies

Grade 9	
ELA 1/ELA 1H	1 unit
World Regional Studies H	1 unit
Geometry/Geometry H/Algebra 2 H	1 unit
Biology/Biology 1 H	1 unit
Health*	½ unit
Foundations of Physical Education	½ unit
World Language	1 unit
Elective	1 unit

Grade 10	
ELA 2/ELA 2H	1 unit
Modern World History: Renaissance to the Present	1 unit
Algebra 2/Algebra 2 H/Precalculus H	1 unit
Chemistry 1	1 unit
World Language	1 unit
Physical Education	½ unit
Exploring Medical Health Science Careers	1 unit
Fine Arts	½ unit

Grade 11	
ELA 3/ELA 3H	1 unit
United States History(and H/AP)	1 unit
Precalculus H/ Calculus AB AP/ Calculus BC AP	1 unit
Human Anatomy and Physiology	1 unit
Physics 1/Physics 1 H/Chemistry 2 AP/Biology 2 AP	1 unit
Medical Health Science 1	1 unit
Financial Literacy	½ unit
Elective	½ unit

Grade 12	
AP English Literature and Composition (English 12 AP)	1 unit
American Government	½ unit
Calculus AB AP/Calculus BC AP or Calculus 3H and Differential Equations H	1 unit
Chemistry 2 AP, Biology 2 AP	1 unit
Medical Health Science 2	3 units
Elective	½ unit

\* The health course may be taken in 10th grade.

# MEDICAL HEALTH SCIENCE

A SIGNATURE PROGRAM AT CAA

## Pre-Medical Health Studies Course Descriptions

<b>CERTIFIED NURSING (CNA) (CAA)</b>	Enrollment Based
4150      1 unit (2-hour block per semester)	12

**Prerequisite – Medical Science 1, minimum completion of 80%, Human Anatomy & Physiology, minimum completion of 70%, teacher recommendation**

Prepares students to perform routine nursing-related services to patients in hospitals or long-term care facilities, under the training and supervision of an approved instructor. Successful course completion includes eligibility to take the state exam to obtain certification as a nurse aide in Kansas.

**Medical Science 2 students are PM enrollment only.**

<b>EXPLORING MEDICAL HEALTH SCIENCE CAREERS</b>	Enrollment Based
4149      1 unit (2-hour block per semester)	
1 unit (1-hour block, 2 semesters)	10,11,12

**Prerequisite – None**

This course is designed to develop an understanding of professions in health care-related fields. Students will investigate career options and corresponding educational requirements. Students explore the entire scope of health career opportunities and compare the demands of specific careers to individual personality traits and strengths. Students examine and practice skills related to professional success, including concepts of teamwork, critical thinking and problem-solving, communication, and employability. Advances in the healthcare industry are also explored. Instruction includes presentations by healthcare professionals. This course may not be applied to the minimum graduation requirement in science. **This course is taught at all five high schools.**

<b>MEDICAL HEALTH SCIENCE 1 (CAA)</b>	Enrollment Based
4146      1 unit (2-hour block per semester)	11,12

**Prerequisite – Biology 1 and Exploring Medical Health Science Careers**

Medical terminology, the language of health care providers, is the primary focus of Medical Science 1. Students will be immersed in language formation through development and application of technical skills, medical case studies, review articles and investigation of the impact of diseases and disorders on various body systems.

<b>MEDICAL HEALTH SCIENCE 2 (CAA)</b>	Enrollment Based
4138      3 units (3-hour block, 2 semesters)	12

**Prerequisite – Completion of Medical Science 1 with a minimum grade of 80%, Human Anatomy and Physiology with a minimum grade of 70% and teacher recommendation**

In this capstone course of the Medical Science Signature Program, students participate in clinical observation within specialty areas related to post-secondary interests. Interaction with health care providers in diverse environments provide real-world, experienced-based learning opportunities. Daily experiences offer insight to specific job demands, necessary communication skills and professional protocol. Students will provide personal transportation to clinical sites. Through clinical experience, students will develop leadership skills, hone public speaking skills and develop a professional portfolio. Upon completion of the course students will be prepared for an entry-level position in one of several health care arenas including: Certified Nurse Aide, First Responder [with successful exam completion] or Animal Science [with successful internship completion]. There is a course fee of \$20.00.

<b>CONTEMPORARY COMMUNICATIONS IN MEDICAL HEALTH (CAA)</b>	Enrollment Based
1640      1/2 unit	11,12

**Prerequisite – ELA 2**

Contemporary Communications provides students with a blended learning environment by which they explore fundamentals of effective communication in the 21st century while enrolled in Shawnee Mission Signature Program courses at the Center for Academic Achievement. Students develop and apply skills in personal communication including critical thinking, speaking, listening, and written communications linked to the signature programs of study of their interest (i.e. medical health). Students will participate in ongoing activities aligned to Kansas English Language Arts standards while enhancing content linked directly to the respective signature programs. **This blended format requires students to be attentive to assignment deadlines and electronic communications from the instructor.** This course is repeatable for credit.

# MEDICAL HEALTH SCIENCE

A SIGNATURE PROGRAM AT CAA

## PROFESSIONAL HEALTH STUDIES: Suggested Program of Studies

Expected coursework for students pursuing the Professional Health Studies designation includes:

- \* Exploring Medical Science Careers
- \* Human Anatomy and Physiology
- \* Medical Health Science 2
- \*\*Chemistry is not required but recommended
- \*\*Physics is not required but recommended

## Suggested Program of Study: Professional Health Studies

Grade 9	
ELA 1	1 unit
World Regional Studies	1 unit
Mathematics	1 unit
Science	1 unit
Health*	1/2 unit
Foundations of Physical Education	1/2 unit
World Language	1 unit
Elective	1 unit

Grade 10	
ELA 2	1 unit
Modern World History: Renaissance to the Present	1 unit
Mathematics	1 unit
Biology	1 unit
Exploring Medical Health Science Careers	1 unit
Physical Education	1/2 unit
World Language	1 unit
Elective	1/2 unit

Grade 11	
ELA 3	1 unit
United States History	1 unit
Mathematics	1 unit
Human Anatomy and Physiology	1 unit
Medical Health Science 1	1 unit
Fine Arts	1/2 unit
Financial Literacy	1/2 unit
Elective	1 unit

Grade 12	
ELA 4	1 unit
American Government	1/2 unit
Mathematics	1 unit
Science	1 unit
Fine Arts	1/2 unit
Medical Health Science 2	3 units
Electives	1 1/2 units

\* The health course may be taken in 10th grade.

## Professional Health Studies Course Descriptions

### EXPLORING MEDICAL HEALTH SCIENCE CAREERS

Enrollment Based

4149      1 unit (2-hour block per semester)  
1 unit (1-hour block, 2 semesters)      10, 11, 12

#### Prerequisite – None

This course is designed to develop an understanding of professions in healthcare-related fields. Students will investigate career options and corresponding educational requirements. Students explore the entire scope of health career opportunities and compare the demands of specific careers to individual personality traits and strengths. Students examine and practice skills related to professional success, including concepts of teamwork, critical thinking and problem-solving, communication, and employability. Advances in the healthcare industry are also explored. Instruction includes presentations by healthcare professionals. This course may not be applied to the minimum graduation requirement in science. **This course is taught at all five high schools.**

### MEDICAL HEALTH SCIENCE 1 (CAA)

Enrollment Based

4146      1 unit (2-hour block per semester)      11, 12

**Prerequisite – Biology 1 and Exploring Medical Health Science Careers**

Medical terminology, the language of health care providers, is the primary focus of Medical Science 1. Students will be immersed in language formation through development and application of technical skills, medical case studies, review articles and investigation of the impact of diseases and disorders on various body systems.

## MEDICAL HEALTH SCIENCE

A SIGNATURE PROGRAM AT CAA

<b>MEDICAL HEALTH SCIENCE 2 (CAA)</b>	Enrollment Based
4138     3 units (3-hour block, 2 semesters)	12

**Prerequisite – Completion of Medical Science 1 with a minimum grade of 80%, Human Anatomy and Physiology with a minimum grade of 70% and teacher recommendation**

In this capstone course of the Medical Science Signature Program, students participate in clinical observation within specialty areas related to post-secondary interests. Interaction with health care providers in diverse environments provide real-world, experienced-based learning opportunities. Daily experiences offer insight to specific job demands, necessary communication skills and professional protocol. Students will provide personal transportation to clinical sites. Through clinical experience, students will develop leadership skills, hone public speaking skills and develop a professional portfolio. Upon completion of the course students will be prepared for an entry-level position in one of several health care arenas including: Certified Nurse Aide, First Responder [with successful exam completion] or Animal Science [with successful internship completion]. There is a course fee of \$20.00.

<b>SPORTS MEDICINE 1 (CAA)</b>	Enrollment Based
4510     1 unit, (2-hour block Spring semester PM only)	12

**Prerequisite – Completion of Medical Science 1 with minimum completion of 80%**

Provides students an overview of the specialized health care needed in the wide world of sports and physical activity. Students will learn what sports medicine is and the multidisciplinary approach to athletic health care. The course will continue development of body systems and response to injury in addition to the physical and mental demands of physical activity at all levels. The students will be introduced to such things as kinesiology, bleeding and shock, the bones and soft tissue, the foot, ankle, and lower leg, the knee, the hip and pelvis, the elbow, wrist, and hand, the shoulder, the chest and abdomen, the head and face, the spine, and lastly special considerations in athletes.

<b>CONTEMPORARY COMMUNICATIONS IN MEDICAL HEALTH (CAA)</b>	Enrollment Based
1640	11, 12

1/2 unit

**Prerequisite – ELA 2**

Contemporary Communications provides students with a blended learning environment by which they explore fundamentals of effective communication in the 21st century while enrolled in Shawnee Mission Signature Program courses at the Center for Academic Achievement. Students develop and apply skills in personal communication including critical thinking, speaking, listening, and written communications linked to the signature programs of study of their interest (i.e. Professional Health studies). Students will participate in ongoing activities aligned to Kansas English Language Arts standards while enhancing content linked directly to the respective signature programs. A significant portion of the course is conducted via on-line assignments and communication. **This blended format requires students to be attentive to assignment deadlines and electronic communications from the instructor.** This course is repeatable for credit.



# PROJECT BLUE EAGLE

A SIGNATURE PROGRAM AT ALL SHAWNEE MISSION HIGH SCHOOLS

<b>APPLICATIONS IN LAW</b>	Enrollment Based
6618	12
<i>1 unit</i>	

**Prerequisite – Introduction to Public Service or Introduction to the Study of Legal Systems, Practical and Business Law**

This class develops the students' ability to locate and assess relative resources, summarize research findings, work individually and collaboratively to obtain, synthesize, and evaluate information in support of the position or conclusion in a legal matter. This course serves as the capstone for the Project Blue Eagle Pre-Law Signature Program. This course counts towards SMSD social studies elective credit, but the course is not permitted for use as Kansas Board of Regents Qualified Admission.

<b>LPSS INTERNSHIP</b>	Enrollment Based
6630	12
<i>1/2 unit</i>	

**Prerequisite – Teacher recommendation**

This course serves as the capstone for the Project Blue Eagle Law Enforcement signature program. This Internship is a semester of on-site mentorship in the field of law. The student will secure this internship with assistance from the Blue Eagle Program. The Internship is intended to provide the student real world experiences in a real employment setting. Classes on resume building, interviewing and job skills are included. Course available second semester 2019.

<b>FORENSIC SCIENCE 1</b>	Enrollment Based
4243	10,11,12
<i>1/2 unit science elective</i>	

**Prerequisite – Biology**

This class is the hands-on application of science to the law. The focus is on problem-solving, designing experiments, and testing and making conclusions based on empirical evidence. Students will be expected to work in teams to theorize, design experiments, research forensic methodologies, synthesize information, and make conclusions based on their own empirical evidence. This course counts towards SMSD science elective credit, but the course is not permitted for use as Kansas Board of Regents Qualified Admission.

<b>FORENSIC SCIENCE 2</b>	Enrollment Based	424
5	10,11,12	
<i>1/2 unit</i>		

**Prerequisite – Forensic Science 1**

Case studies are provided for all units, as well as research/analysis completed by students on famous cases. This course furthers students' exploration of how science and inquiry are applied to the criminal justice system. Topics include: crime scene analysis, physical/chemical analysis of evidence, microscopy, chromatography, hair/fiber/glass/document/fingerprint analysis, firearms, drug, toxicology, entomology, anthropology, blood (serology) and DNA analysis. Principal methods of learning include lecture, demonstration, case study analysis, forensic journal reading, forensics competitions, lab activities and experiments. This course will emphasize potential career pathways, critical thinking, problem-solving, observation, data analysis, and data collection, in addition to scientific skills and techniques. This course counts towards SMSD science elective credit, but the course is not permitted for use as Kansas Board of Regents Qualified Admission. We do not go to, or compete in forensics competitions.

<b>FIRST AID / CPR / EMR</b>	Enrollment Based
6620	9,10,11,12
<i>1/2 unit</i>	

**Prerequisite – None**

First Aid/CPR/EMR is a general course in the principles of emergency first response, from arrival to transport. It is also geared to teach the basics of first aid, with emphasis on stabilization and transport, if necessary. Cardio Pulmonary Resuscitation (CPR) and the use of Automatic Defibrillators will be a major part of the course with certification upon completion.

## PROJECT BLUE EAGLE

A SIGNATURE PROGRAM AT ALL SHAWNEE MISSION HIGH SCHOOLS

**Advanced Courses are offered at the Career and Technical Campus (CTC) and district transportation is provided to CTC with return transportation to the home high school.**

SMSD CTE Pathways	
<b>Pathway: Public Safety &amp; Security</b>	<b>Strand: Law Enforcement</b>
<b>Intro Level</b>	Intro to Public Safety
<b>Technical Level</b>	EMR (0.5)
	Law Enforcement 1 (1.0)
	Forensic Science 1 (0.5)
	Forensic Science 2 (0.5)
<b>Application Level</b>	Law Enforcement 2 (1.0)
	LPSS Internship (0.5)

### LAW ENFORCEMENT COURSE DESCRIPTIONS

<b>INTRODUCTION TO PUBLIC SAFETY</b>	Enrollment Based
6610	1/2 unit
	9, 10, 11, 12

**Prerequisite – None**

Introduction to Public Safety is the first class in the Law, Public Safety and Security Program. As such, it is an exploratory class giving the student access to the principles and concepts necessary for the basic study of law, of law enforcement, firefighting and EMT. This is a required class for continuation in the signature program, and is designed to provide the student the basic information necessary to decide on further program study, and determination of which strand is the one they wish to pursue. This course counts towards SMSD social studies elective credit, but the course is not permitted for use as Kansas Board of Regents Qualified Admission.

<b>FORENSIC SCIENCE 1</b>	Enrollment Based
4243	1/2 unit science elective
	10, 11, 12

**Prerequisite – Biology**

This class is the hands-on application of science to the law. The focus is on problem-solving, designing experiments, and testing and making conclusions based on empirical evidence. Students will be expected to work in teams to theorize, design experiments, research forensic methodologies, synthesize information, and make conclusions based on their own empirical evidence. This course counts towards SMSD science elective credit, but the course is not permitted for use as Kansas Board of Regents Qualified Admission.

# PROJECT BLUE EAGLE

A SIGNATURE PROGRAM AT ALL SHAWNEE MISSION HIGH SCHOOLS

<b>FORENSIC SCIENCE 2</b>	Enrollment Based
4245                      1/2 unit	10, 11, 12

**Prerequisite – Forensic Science 1**

Case studies are provided for all units, as well as research/analysis completed by students on famous cases. This course furthers students' exploration of how science and inquiry are applied to the criminal justice system. Topics include: crime scene analysis, physical/chemical analysis of evidence, microscopy, chromatography, hair/fiber/glass/document/fingerprint analysis, firearms, drug, toxicology, entomology, anthropology, blood (serology) and DNA analysis. Principal methods of learning include lecture, demonstration, case study analysis, forensic journal reading, forensics competitions, lab activities and experiments. This course will emphasize potential career pathways, critical thinking, problem-solving, observation, data analysis, and data collection, in addition to scientific skills and techniques. This course counts towards SMSD science elective credit, but the course is not permitted for use as Kansas Board of Regents Qualified Admission. We do not go to, or compete in forensics competitions.

<b>LAW ENFORCEMENT 1 (CTC)</b>	Enrollment Based
6612                      1 unit (2-hour block, one semester)	10, 11, 12

**Prerequisite – Introduction to Public Service**

This course is designed to provide the student with the basic concepts and skills associated with the law enforcement profession to include introduction to law and the legal system, criminal law and the juvenile justice system, police department organizational structures, and other police related information. This class is heavy in hands-on development of police skills including report writing, criminal investigations and other technical police operations.

<b>LAW ENFORCEMENT 2 (CTC)</b>	Enrollment Based
6614                      1 unit (2-hour block, one semester)	11, 12

**Prerequisite – Introduction to Public Safety and Law Enforcement 1**

This is an in-depth follow-up to Law Enforcement 1 studying crime control measures, most significant crimes, constitutional law, and, as in Law Enforcement 1, contains significant hands-on skill development. Seniors may enroll in both LE 1 and LE 2 their senior year, taking one per semester.

<b>LPSS INTERNSHIP</b>	Enrollment Based
6630                      1 unit (2-hour block per semester)	12

**Prerequisite – Law Enforcement 1 and 2 and teacher recommendation**

This course serves as the capstone for the Project Blue Eagle Pre-Law signature program. This Internship is a semester of on-site mentorship in the field of law enforcement. The student will secure this internship with assistance from the Blue Eagle Program. The internship is intended to provide the student real world experiences in a real employment setting. Classes on resume building, interviewing and job skills are included. Course available second semester 2018.

<b>FIRST AID / CPR / EMR</b>	Enrollment Based
6620                      1/2 unit	9, 10, 11, 12

**Prerequisite – None**

First Aid/CPR/EMR is a general course in the principles of emergency first response, from arrival to transport. It is also geared to teach the basics of first aid, with emphasis on stabilization and transport, if necessary. Cardio Pulmonary Resuscitation (CPR) and the use of Automatic Defibrillators will be a major part of the course with certification upon completion.

<b>CONTEMPORARY COMMUNICATIONS IN LAW ENFORCEMENT (CTC)</b>	Enrollment Based
1640                      1/2 unit	11, 12

**Prerequisite – ELA 2**

Contemporary Communications provides students with a blended learning environment by which they explore fundamentals of effective communication in the 21st century while enrolled in Shawnee Mission Signature Program courses at the CTC. Students develop and apply skills in personal communication including critical thinking, speaking, listening, and written communications linked to the signature programs of study of their interest (i.e. Law enforcement studies). Students will participate in ongoing activities aligned to Kansas English Language Arts standards while enhancing content linked directly to the respective signature programs. A significant portion of the course is conducted via on-line assignments and communication.

**This blended format requires students to be attentive to assignment deadlines and electronic communications from the instructor.** This course is repeatable for credit.

## PROJECT BLUE EAGLE

A SIGNATURE PROGRAM AT ALL SHAWNEE MISSION HIGH SCHOOLS

**Advanced Courses are offered at at the Career and Technical Campus (CTC) and district transportation is provided to CTC with return transportation to the home high school.**

SMSD CTE Pathways	
<b>Pathway: Fire</b>	<b>Strand: Fire</b>
<b>Intro Level</b>	Intro to Public Safety
<b>Technical Level</b>	Fire Science 1 (1.0)
<b>Application Level</b>	Fire Science 2 (1.0)
	Wild Land Firefighting (0.5)

### FIRE SCIENCE

<b>INTRODUCTION TO PUBLIC SAFETY</b>	Enrollment Based
6610                      1/2 unit	9,10,11,12

**Prerequisite – None**

Introduction to Public Safety is the first class in the Law, Public Safety and Security Program. As such, it is an exploratory class giving the student access to the principles and concepts necessary for the basic study of law, of law enforcement, firefighting and EMT. This is a required class for continuation in the signature program, and is designed to provide the student the basic information necessary to decide on further program study, and determination of which strand is the one they wish to pursue. This course counts towards SMSD social studies elective credit, but the course is not permitted for use as Kansas Board of Regents Qualified Admission.

<b>FIRE SCIENCE 1 (CTC)</b>	Enrollment Based
6622                      2 units (2-hour block, full year)	10,11,12

**Prerequisite – - Introduction to Public Safety**

Fire Science 1, when combined with Fire Science 2, equals the Firefighter 1 Certification Course. This course provides hands-on practical experience teaching all skills necessary to eventually pass the Firefighter 1 Certification.

<b>FIRE SCIENCE 2 (CTC)</b>	Enrollment Based
6624                      2 units (2-hour block, full year)	11,12

**Prerequisite – Fire Science 1**

Fire Science 2, when combined with Fire Science 1, are equivalent to the Firefighter 1 Certificate. These courses together complete all the necessary skills to pass the Firefighter 1 Certificate.

<b>WILD LAND FIREFIGHTING</b>	Enrollment Based
6626                      1/2 unit	11,12

**Prerequisite – None**

This course, in conjunction with the Kansas Forestry Service, is the study of forest fire techniques with a practical application aimed at qualifying the student for his/her Forest Fire Red Card, preparing them to seek employment fighting forest fires. **This is an online-based course that can be supported by the Blue Eagle Staff.**

<b>FIRST AID / CPR / EMR</b>	Enrollment Based
6620                      1/2 unit	9,10,11,12

**Prerequisite – None**

First Aid/CPR/EMR is a general course in the principles of emergency first response, from arrival to transport. It is also geared to teach the basics of first aid, with emphasis on stabilization and transport, if necessary. Cardiac Pulmonary Resuscitation (CPR) and the use of Automatic Defibrillators will be a major part of the course with certification upon completion.

<b>CONTEMPORARY COMMUNICATIONS IN FIRE SCIENCE (CTC)</b>	Enrollment Based
1640                      1/2 unit	11,12

**Prerequisite – ELA 2**

Contemporary Communications provides students with a blended learning environment by which they explore fundamentals of effective communication in the 21st century while enrolled in Shawnee Mission Signature Program courses at the **CTC**. Students develop and apply skills in personal communication including critical thinking, speaking, listening, and written communications linked to the signature programs of study of their interest (i.e. Fire science). Students will participate in ongoing activities aligned to Kansas English Language Arts standards while enhancing content linked directly to the respective signature programs. A significant portion of the course is conducted via on-line assignments and communication. **This blended format requires students to be attentive to assignment deadlines and electronic communications from the instructor.** This course is repeatable for credit.

# PROJECT BLUE EAGLE

A SIGNATURE PROGRAM AT ALL SHAWNEE MISSION HIGH SCHOOLS

**Advanced Courses are offered at at the Career and Technical Campus (CTC) and district transportation is provided to CTC with return transportation to the home high school.**

SMSD CTE Pathways	
<b>Pathway: Health Science</b>	<b>Strand: EMT/EMR</b>
<b>Intro Level</b>	Intro to Public Safety
<b>Technical Level</b>	EMR (0.5)
	EMT1 (1.0)
<b>Application Level</b>	EMT 2 (1.0)

## EMERGENCY MEDICAL TECHNICIAN, EMT

**INTRODUCTION TO PUBLIC SAFETY** Enrollment Based  
 6610 1/2 unit 9,10,11,12

**Prerequisite – None**

Introduction to Public Safety is the first class in the Law, Public Safety and Security Program. As such, it is an exploratory class giving the student access to the principles and concepts necessary for the basic study of law, of law enforcement, firefighting and EMT. This is a required class for continuation in the signature program, and is designed to provide the student the basic information necessary to decide on further program study, and determination of which strand is the one they wish to pursue. This course counts towards SMSD social studies elective credit, but the course is not permitted for use as Kansas Board of Regents Qualified Admission.

**FIRST AID / CPR / EMR** Enrollment Based  
 6620 1/2 unit 9,10,11,12

**Prerequisite – None**

First Aid/CPR/EMR is a general course in the principles of emergency first response, from arrival to transport. It is also geared to teach the basics of first aid, with emphasis on stabilization and transport, if necessary. Cardio Pulmonary Resuscitation (CPR) and the use of Automatic Defibrillators will be a major part of the course with certification upon completion.

**EMT 1** Enrollment Based  
 6628 2 units (2 hour, full year) 10,11,12

**Prerequisite – First Aid/CPR/EMR**

The EMT 1 and EMT 2 courses are sequential courses designed to prepare the student to take the National EMT examination.

**EMT 2** Enrollment Based  
 6629 2 units (2 hour, full year) 11,12

**Prerequisite – EMT 1**

The EMT 1 and EMT 2 courses are sequential courses designed to prepare the student to take the National EMT examination.

**CONTEMPORARY COMMUNICATIONS IN EMT (CTC)** Enrollment Based  
 1640 1/2 unit 11,12

**Prerequisite – ELA 2**

Contemporary Communications provides students with a blended learning environment by which they explore fundamentals of effective communication in the 21st century while enrolled in Shawnee Mission Signature Program courses at the **CTC**. Students develop and apply skills in personal communication including critical thinking, speaking, listening, and written communications linked to the signature programs of study of their interest (i.e. EMT studies). Students will participate in ongoing activities aligned to Kansas English Language Arts standards while enhancing content linked directly to the respective signature programs. A significant portion of the course is conducted via on-line assignments and communication. **This blended format requires students to be attentive to assignment deadlines and electronic communications from the instructor.** This course is repeatable for credit.





# SHAWNEE MISSION

SCHOOL DISTRICT

8200 W. 71st Street  
Shawnee Mission, KS 66204  
(913) 993-6200  [smsd.org](http://smsd.org)