



HIGH SCHOOL PROGRAM PLANNING GUIDE

2023-2024





Shawnee Mission East High School

7500 Mission Road, Prairie Village, KS 66208
913-993-6600



Shawnee Mission North High School

7401 Johnson Drive, Overland Park, KS 66202
913-993-6900



Shawnee Mission Northwest High School

12701 W 67th Street, Shawnee, KS 66216
913-993-7200



Shawnee Mission South High School

5800 W 107th Street, Overland Park, KS 66207
913-993-7500



Shawnee Mission West High School

8800 W 85th Street, Overland Park, KS 66212
913-993-7800



Arrowhead School

6601 Santa Fe Drive, Overland Park, KS 66202
913-993-1700



Horizons High School

5900 Lamar Ave, Mission, KS 66202
913-993-9500



**Career and Technical Campus (CTC)
Project Blue Eagle**

11475 W 93rd Street, Overland Park, KS 66214
913-993-0900

Center for Academic Achievement (CAA)

8200 W 71st Street, Overland Park, KS 66204
913-993-6200



SHAWNEE MISSION SCHOOL DISTRICT

Dear Students and Parents:

The Shawnee Mission School District (SMSD) is partnering with the Ewing Marion Kauffman Foundation and 31 other school districts in the Kansas City metro area to strengthen the preparation of students for learning and working beyond high school. This Real World Learning Initiative is intended to support students by preparing them with "Market Value Assets" (MVAs), specific work opportunities and accreditations intended to give students a head start toward their college or career goals. The first section of this newly revised guide provides information about MVAs and how the district is working to support real world learning in our community.

By 2030, our goal is to have every student graduate with one or more MVAs in addition to their high school diploma. In order to achieve that goal, the work needs to begin now throughout the district, and that is where this guide comes in. In addition to a complete listing and brief description of all courses offered in grades 9-12 in the district, this Program Planning Guide contains sample four-year course plans for a wide variety of career pathways, based on your student's interests and aptitudes. It also includes information about how those specific pathways can result in earning one or more MVAs.

The Real World Learning Initiative aligns with our district's Strategic Plan of supporting students to develop an individual plan to achieve their future goals and aspirations. I encourage students to select courses and programs reflecting their personal needs, interests, and talents, which will lead them to increased opportunities once they graduate from high school.

If you have questions regarding any information in the High School Program Planning Guide, be sure to contact the school counselor at your child's school.

Best wishes to all our students as they start planning for the 2023-2024 school year and beyond!

Sincerely,

Dr. Michelle Hubbard
Superintendent

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The Shawnee Mission School District embraces its role in establishing a long-term mission and vision for diversity, equity, and inclusion by relentlessly creating a fully unified, equitable, and inclusive culture. It is our mission to value differences and to actively promote inclusion and equity.

Real World Learning

Real World Learning Overview

The Shawnee Mission School District (SMSD) is providing Real World Learning opportunities for students as outlined in the district's Strategic Plan. Real World Learning opportunities prepare students for college and careers.

SMSD, along with more than 30 school districts in our greater KC metro area, is partnering with the Ewing Marion Kauffman Foundation to better prepare students for learning and work. Real World Learning thrives when the community and schools collaborate to provide immersive experiences for students while building a pipeline for future talent.

The Real World Learning goal is by 2030 every student will graduate with a diploma and at least one Market Value Asset.

Market Value Assets - MVAs

At the core of Real World Learning are Market Value Assets (MVAs). MVAs are identified as specific work opportunities or accreditations that contribute to student success in work and learning beyond graduation. They are defined in four categories:

1. **Work Experiences** - A critical component of Real World Learning is partnerships with local businesses, industries, and nonprofits.

Entry-level opportunities for partners include being a mentor or coach to an individual student and expanding their professional network or being a class presenter or hosting a career tour.

Client-Connected Projects: Individuals or teams of students analyze and solve authentic problems in collaboration with professionals from industry, not-for-profit, civic, or community-based organizations. Projects are 24 hours of work that include feedback from a work mentor or coach.

Internships: Students complete meaningful workplace tasks that develop readiness for work, knowledge, and skills that support entry or advancement in a specific career field. The tasks can be assessed as meaningful if they are resume-worthy. Qualifying internships are 120 hours per semester.

2. Industry-Recognized Credentials (IRCs)

Learners earn IRCs based on current lists published by state education departments and will be reviewed with employers and validated for applicability and relevance.

3. Dual-College Credit

Students earn nine or more hours of college credit. SMSD offers Advanced Placement (AP) courses, College Now options, and Project Lead the Way curriculum. Signature Programs and the International Baccalaureate Program include college credit.

Students may also pursue college credit outside of the school schedule.

4. Entrepreneurial Experiences

Students identify a compelling social or market problem and mobilize resources to research and solve it. Leveraging input and support from multiple stakeholders, students analyze, prototype, implement, reflect, and adapt potential solutions. Outputs of MVA-level entrepreneurial experiences include:

- A market and stakeholder research summary
- A business plan that includes an assessment of costs and benefits
- Feedback from relevant external stakeholders (e.g. exhibition or pitch-type event)

Sample Pathway Four-Year Plans

In the following pages, we present some options for earning Market Value Assets in Shawnee Mission School District. Note that these are not the only options available, and even within a pathway students will have choices to make. Additionally, you are never stuck in a pathway; you may move between them as you like.


Pathways are presented here to share what a potential course sequence might look like over the four years of high school to aid you in the development of your individual plan of study and in your schedule planning. To support that goal, each pathway is shown along with the SMSD graduation requirements presented in a recommended course sequence.

SMSD offers the following pathways, to be described in the following pages:

- [Auto Tech](#)
- [Biotechnology](#)
- [Business Finance](#)
- [Business Management/Entrepreneurship](#)
- [Certified Nursing Assistant](#)
- [Construction & Design](#)
- [Emergency Medical Services \(Project Blue Eagle\)](#)
- [Engineering & Applied Mathematics](#)
- [Fashion, Apparel, and Interior Design](#)
- [Fire Science \(Project Blue Eagle\)](#)
- [Graphic Design](#)
- [Journalism](#)
- [Law Enforcement \(Project Blue Eagle\)](#)
- [Manufacturing: Metal Production](#)
- [Manufacturing: Wood Production](#)
- [Marketing](#)
- [Medical Science](#)
- [Pre-Law \(Project Blue Eagle\)](#)
- [Programming & Software Development](#)
- [Restaurant & Event Management](#)
- [Sports Medicine](#)
- [Teacher Training](#)
- [Video Production](#)
- [Web & Digital Communications](#)

For more information about Career Pathways, please visit the Career & Technical Education page under the Academics heading at www.smsd.org.

Auto Tech

Automotive Technology	9	10	11	12	MVA
Introductory Courses	Intro to Business; Automotive Essentials				Work Experiences (Internships & Client-Connected Projects)
Technical Knowledge & Skills	Automotive Technology 1; Entrepreneurship				
Application	Automotive Technology 2; Automotive Technology 3				
SMSD Graduation Requirements in a Possible Sequence					
English Language Arts	ELA 1	ELA 2	ELA 3	ELA 4	4 units
Mathematics	Mathematics	Mathematics	Mathematics	Mathematics (Recommended)	3 units
Social Studies	World Regional Studies	Elective (0.5)	US History	Am. Government (0.5)	3 units
Science	Science	Science	Science	Science (Recom.)	3 units
Must include 1 unit of Biological Science and 1 unit of Physical Science. 1 unit must be a laboratory science.					
Physical Education/ Health	Physical Education (1.0); Health (0.5) Can be taken any time during high school.				1.5 units
Fine Arts	Fine Arts See this list for a description of courses that meet this requirement. Can be taken any time during high school.				1 unit
Financial Literacy	Financial Literacy Can be taken any time during grades 10-12.				0.5 units
World Language	World Language (2 units) Not an SMSD graduation requirement, but recommended for the Kansas Scholars Program.				

Potential Careers

Aircraft Maintenance, Technician,
Automotive Service Technician, Auto Body
Collision Repairer, Mechanic




Mechanics is the paradise of the mathematical sciences because by means of it, one comes to the fruits of mathematics.

- Leonardo da Vinci



Biotechnology

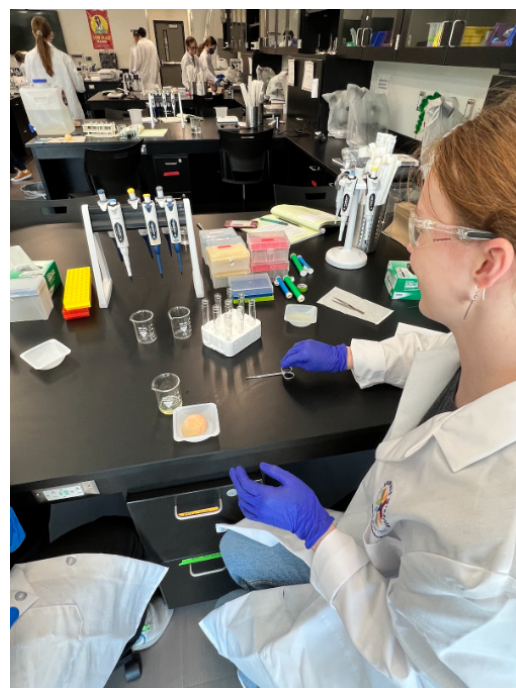
Biochemistry/ Biotechnology	9	10	11	12	MVA
Introductory Courses	Intro to Biotechnology; Biotechnology				Work Experiences (Internships & Client-Connected Projects)
Technical Knowledge & Skills	Plant & Soil Science; DNA and Protein Diagnostics Honors; Agriculture and Pharmaceuticals				
Application	Biotech Research and Professional Learning Experience Honors				
SMSD Graduation Requirements in a Possible Sequence					
English Language Arts	ELA 1	ELA 2	ELA 3	ELA 4	4 units
Mathematics	Mathematics	Mathematics	Mathematics	Mathematics (Recommended)	3 units
Social Studies	World Regional Studies	Elective (0.5)	US History	Am. Government (0.5)	3 units
Science	Science	Science	Science	Science (Recom.)	3 units
Must include 1 unit of Biological Science and 1 unit of Physical Science. 1 unit must be a laboratory science.					
Physical Education/ Health	Physical Education (1.0); Health (0.5) Can be taken any time during high school.				1.5 units
Fine Arts	Fine Arts See this list for a description of courses that meet this requirement. Can be taken any time during high school.				1 unit
Financial Literacy	Financial Literacy Can be taken any time during grades 10-12.				0.5 units
World Language	World Language (2 units) Not an SMSD graduation requirement, but recommended for the Kansas Scholars Program.				

Potential Careers


Researcher, Clinical Technician, Chemical Operator, Biomedical equipment technician, Microbiologist, DNA analyst, Pharmaceutical Manufacturer, Scientist, Agricultural and Food Science Technician, Chemical Technician, Food Scientist

I think the biggest innovations of the 21st century will be at the intersection of biology and technology. A new era is beginning.

-Steve Jobs



Business Finance

Business Finance	9	10	11	12	MVA
Introductory Course	Intro to Business; Financial Literacy				Entrepreneurial Experiences
Technical Knowledge & Skills	Banking & Finance; Investing; Accounting; Entrepreneurship; Economics				Work Experiences (Internships & Client-Connected Projects)
Application	Business Finance Professional Learning Experience				
SMSD Graduation Requirements in a Possible Sequence					
English Language Arts	ELA 1	ELA 2	ELA 3	ELA 4	4 units
Mathematics	Mathematics	Mathematics	Mathematics	Mathematics (Recommended)	3 units
Social Studies	World Regional Studies	Elective (0.5)	US History	Am. Government (0.5)	3 units
Science	Science	Science	Science	Science (Recom.)	3 units
Must include 1 unit of Biological Science and 1 unit of Physical Science. 1 unit must be a laboratory science.					
Physical Education/Health	Physical Education (1.0); Health (0.5) Can be taken any time during high school.				1.5 units
Fine Arts	Fine Arts See this list for a description of courses that meet this requirement. Can be taken any time during high school.				1 unit
Financial Literacy	Financial Literacy Can be taken any time during grades 10-12.				0.5 units
World Language	World Language (2 units) Not an SMSD graduation requirement, but recommended for the Kansas Scholars Program.				


Potential Careers

Accountant or Auditor, Financial Analyst, Human Resource Manager, Business Owner, Supply Chain Manager, Project Manager, Sales Manager, Financial Advisor, Financial Manager, Credit Analyst, Investment Banking Analyst, Actuary Analyst, Insurance Claim Adjuster, Statistician



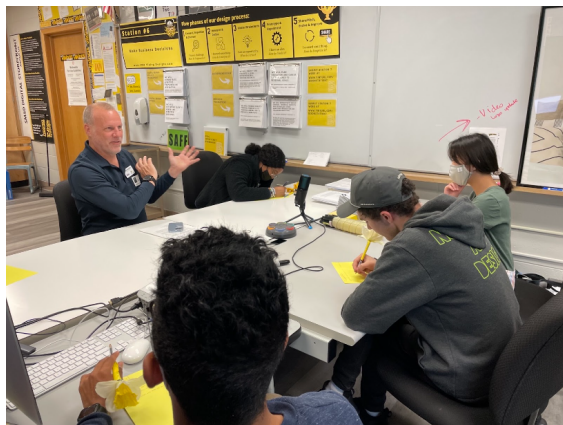
The most difficult thing is the decision to act, the rest is merely tenacity. -Amelia Earhart

Business Management/Entrepreneurship

Business Management/Entrepreneurship	9	10	11	12	MVA
Introductory Course	Intro to Business; Entrepreneurship; Business Law; Business Management				Entrepreneurial Experiences
Technical Knowledge & Skills	Accounting; Marketing Principles; Economics 1				Work Experiences (Internships & Client-Connected Projects)
Application	Applied Business Development				
SMSD Graduation Requirements in a Possible Sequence					
English Language Arts	ELA 1	ELA 2	ELA 3	ELA 4	4 units
Mathematics	Mathematics	Mathematics	Mathematics	Mathematics (Recommended)	3 units
Social Studies	World Regional Studies	Elective (0.5)	US History	Am. Government (0.5)	3 units
Science	Science	Science	Science	Science (Recom.)	3 units
Must include 1 unit of Biological Science and 1 unit of Physical Science. 1 unit must be a laboratory science.					
Physical Education/Health	Physical Education (1.0); Health (0.5) Can be taken any time during high school.				1.5 units
Fine Arts	Fine Arts See this list for a description of courses that meet this requirement. Can be taken any time during high school.				1 unit
Financial Literacy	Financial Literacy Can be taken any time during grades 10-12.				0.5 units
World Language	World Language (2 units) Not an SMSD graduation requirement, but recommended for the Kansas Scholars Program.				

Potential Careers

Accountant or Auditor, Financial Analyst,
Human Resource Manager, Business Owner,




Supply Chain Manager, Project Manager,
Sales Manager

If you're starting something on your own, you better have a passion for it, because this is hard work.

-Sallie Krawcheck

Construction & Design

Construction & Design	9	10	11	12	MVA
Introductory Course	Projects in Industrial Technology (taken in middle school)				Work Experiences (Internships & Client-Connected Projects)
Technical Knowledge & Skills	Introduction to Computer-Aided Design; Computer-Aided Architectural Design 1; Interior Design				
Application	Interior Design or Computer-Aided Architectural Design 2				
SMSD Graduation Requirements in a Possible Sequence					
English Language Arts	ELA 1	ELA 2	ELA 3	ELA 4	4 units
Mathematics	Mathematics	Mathematics	Mathematics	Mathematics (Recommended)	3 units
Social Studies	World Regional Studies	Elective (0.5)	US History	Am. Government (0.5)	3 units
Science	Science	Science	Science	Science (Recom.)	3 units
Must include 1 unit of Biological Science and 1 unit of Physical Science. 1 unit must be a laboratory science.					
Physical Education/Health	Physical Education (1.0); Health (0.5) Can be taken any time during high school.				1.5 units
Fine Arts	Fine Arts See this list for a description of courses that meet this requirement. Can be taken any time during high school.				1 unit
Financial Literacy	Financial Literacy Can be taken any time during grades 10-12.				0.5 units
World Language	World Language (2 units) Not an SMSD graduation requirement, but recommended for the Kansas Scholars Program.				

Potential Careers


Construction Project Manager, Inspector, Electrician, Plumber, Carpenter, Heating, Air Conditioning, and Refrigeration Maintenance Technician, Architect, Civil Draftsman, Civil Engineering Technician, Electrical Engineer and Electronics Draftsman, Engineering Technician, Interior Designer, Landscape Architect, Mechanical Draftsman

We shape our buildings; thereafter, they shape us.

– Winston Churchill



Emergency Medical Services

Emergency Medical Services	9	10	11	12	MVA
Introductory Courses	Blue Eagle Academy				Work Experiences (Internships & Client-Connected Projects)
Technical Knowledge & Skills		EMS 1			IRCs (BLS; EMR; EMT)
Application			EMS 2; EMS 3		College Credit
SMSD Graduation Requirements in a Possible Sequence					
English Language Arts	ELA 1	ELA 2	ELA 3	ELA 4	4 units
Mathematics	Mathematics	Mathematics	Mathematics	Mathematics (Recommended)	3 units
Social Studies	World Regional Studies	Elective (0.5)	US History	Am. Government (0.5)	3 units
Science	Science	Science	Science	Science (Recom.)	3 units
Must include 1 unit of Biological Science and 1 unit of Physical Science. 1 unit must be a laboratory science.					
Physical Education/Health		Physical Education (1.0); Health (0.5) Can be taken any time during high school.			1.5 units
Fine Arts		Fine Arts See this list for a description of courses that meet this requirement. Can be taken any time during high school.			1 unit
Financial Literacy		Financial Literacy Can be taken any time during grades 10-12.			0.5 units
World Language		World Language (2 units) Not an SMSD graduation requirement, but recommended for the Kansas Scholars Program.			

For me, I am driven by two main philosophies: know more today about the world than I knew yesterday and lessen the suffering of others. You'd be surprised how far that gets you.


-Neil deGrasse Tyson

Potential Careers

Emergency Medical Technician, Advanced Emergency Medical Technician, Paramedic, Emergency Room Technician



Engineering & Applied Mathematics

Engineering & Applied Mathematics	9	10	11	12	MVA
Introductory Courses	Gateway to Technology and Computer Dimensions (taken in Middle School) Introduction to Engineering Design				Work Experiences (Internships & Client-Connected Projects)
Technical Knowledge & Skills	Principals of Engineering Design H; Robotics; Civil Engineering & Architecture H; Digital Electronics H; Aerospace Engineering (H); Cybersecurity (H)				IRCs (CompTIA; AutoDesk)
Application	Engineering Design & Development (H); Adv Concepts in CAD (H); Environmental Sustainability (H)				College Credit
SMSD Graduation Requirements in a Possible Sequence					
English Language Arts	ELA 1	ELA 2	ELA 3	ELA 4	4 units
Mathematics	Mathematics	Mathematics	Mathematics	Mathematics (Recommended)	3 units
Social Studies	World Regional Studies	Elective (0.5)	US History	Am. Government (0.5)	3 units
Science	Science	Science	Science	Science (Recom.)	3 units
Must include 1 unit of Biological Science and 1 unit of Physical Science. 1 unit must be a laboratory science.					
Physical Education/Health	Physical Education (1.0); Health (0.5) Can be taken any time during high school.				1.5 units
Fine Arts	Fine Arts See this list for a description of courses that meet this requirement. Can be taken any time during high school.				1 unit
Financial Literacy	Financial Literacy Can be taken any time during grades 10-12.				0.5 units
World Language	World Language (2 units) Not an SMSD graduation requirement, but recommended for the Kansas Scholars Program.				

Potential Careers


Aerospace Engineer, Agricultural Engineer, Biomedical Engineer, Chemical Engineer, Civil Engineer, Electrical Engineer, Engineering Technician, Industrial Engineer, Mechanical Engineer, Aircraft Maintenance Technician, Air Crew Member, Airfield Operations Specialist, Air Traffic Controller, Avionics Technician, Pilot

The engineer has been, and is, a maker of history."

-James Kip Finch



Fashion, Apparel, and Interior Design

Fashion, Apparel & Interior Design	9	10	11	12	MVA
Introductory Courses	Career & Life Planning; Fashion, Apparel & Interior Design Essentials; Apparel Production 1				Work Experiences (Internships & Client-Connected Projects)
Technical Knowledge & Skills	Apparel Production 2; Fashion Merchandising; Interior Design				
Application	Fashion, Apparel & Interior Textile Design Studio				
SMSD Graduation Requirements in a Possible Sequence					
English Language Arts	ELA 1	ELA 2	ELA 3	ELA 4	4 units
Mathematics	Mathematics	Mathematics	Mathematics	Mathematics (Recommended)	3 units
Social Studies	World Regional Studies	Elective (0.5)	US History	Am. Government (0.5)	3 units
Science	Science	Science	Science	Science (Recom.)	3 units
Must include 1 unit of Biological Science and 1 unit of Physical Science. 1 unit must be a laboratory science.					
Physical Education/Health	Physical Education (1.0); Health (0.5) Can be taken any time during high school.				1.5 units
Fine Arts	Fine Arts See this list for a description of courses that meet this requirement. Can be taken any time during high school.				1 unit
Financial Literacy	Financial Literacy Can be taken any time during grades 10-12.				0.5 units
World Language	World Language (2 units) Not an SMSD graduation requirement, but recommended for the Kansas Scholars Program.				

Potential Careers


Costume Designer, Fashion Designer, Stylist, Fashion Merchandiser, Fashion Retail Buyer, Interior Designer

Fashion is very important. It is life-enhancing and, like everything that gives pleasure, it is worth doing well.

– Vivienne Westwood



Fire Science

Fire Science	9	10	11	12	MVA
Introductory Courses	Blue Eagle Academy				Work Experiences (Internships & Client-Connected Projects)
Technical Knowledge & Skills		Fire Science 1			IRCs (BLS; EMR; EMT; Firefighter 1 & 2; HazMat Ops; Wildland Fire Red Card)
Application		Fire Science 2; Fire Science 3 (HazMat)			
SMSD Graduation Requirements in a Possible Sequence					
English Language Arts	ELA 1	ELA 2	ELA 3	ELA 4	4 units
Mathematics	Mathematics	Mathematics	Mathematics	Mathematics (Recommended)	3 units
Social Studies	World Regional Studies	Elective (0.5)	US History	Am. Government (0.5)	3 units
Science	Science	Science	Science	Science (Recom.)	3 units
	Must include 1 unit of Biological Science and 1 unit of Physical Science. 1 unit must be a laboratory science.				
Physical Education/Health	Physical Education (1.0); Health (0.5) Can be taken any time during high school.				1.5 units
Fine Arts	Fine Arts See this list for a description of courses that meet this requirement. Can be taken any time during high school.				1 unit
Financial Literacy	Financial Literacy Can be taken any time during grades 10-12.				0.5 units
World Language	World Language (2 units) Not an SMSD graduation requirement, but recommended for the Kansas Scholars Program.				

Potential Careers


Firefighter, Fire Captain, Public Information Officer, Inspector, Investigator, Engineer, HazMat, Heavy Rescue, Wildland Firefighter



Aspire rather to be a hero than merely appear one."

- Baltasar Gracian

Graphic Design

Graphic Design	9	10	11	12	MVA
Introductory Course	Intro to Studio Art; Drawing 1				Entrepreneurial Experiences
Technical Knowledge & Skills	Digital Photo; Digital Design; Digital Design Studio; Drawing 2; Graphic Design-Art				Work Experiences (Internships & Client-Connected Projects)
Application	Graphic Design Project Management				IRCs (Adobe Certifications)
SMSD Graduation Requirements in a Possible Sequence					
English Language Arts	ELA 1	ELA 2	ELA 3	ELA 4	4 units
Mathematics	Mathematics	Mathematics	Mathematics	Mathematics (Recommended)	3 units
Social Studies	World Regional Studies	Elective (0.5)	US History	Am. Government (0.5)	3 units
Science	Science	Science	Science	Science (Recom.)	3 units
Must include 1 unit of Biological Science and 1 unit of Physical Science. 1 unit must be a laboratory science.					
Physical Education/Health	Physical Education (1.0); Health (0.5) Can be taken any time during high school.				1.5 units
Fine Arts	Fine Arts See this list for a description of courses that meet this requirement. Can be taken any time during high school.				1 unit
Financial Literacy	Financial Literacy Can be taken any time during grades 10-12.				0.5 units
World Language	World Language (2 units) Not an SMSD graduation requirement, but recommended for the Kansas Scholars Program.				

Potential Careers


Art Director Artist Photographer Computer Animator Graphic Designer Illustrator Printing Equipment Operator Web Page Designer, Art Director Artist Art Therapist Photographer Curator and Gallery Manager Interior Designer Jewelry Designer Textile Designer, Art Director Art Teacher Artist Cinematographer Photographer

Creativity is nothing but a mind set free.

– Torrie T. Asai



Journalism

Digital Media: Journalism	9	10	11	12	MVA
Introductory Course	Intro to Business; Computer Dimensions 1 & 2 (taken in middle school)				Work Experiences (Internships & Client-Connected Projects); IRCs (Adobe Certifications)
Technical Knowledge & Skills	21st Century Journalism; Photo - Digital Production; Digital Design; Digital Design Studio				
Application	Yearbook; News Media; Digital Design Project Management; Editorial Leadership				
SMSD Graduation Requirements in a Possible Sequence					
English Language Arts	ELA 1	ELA 2	ELA 3	ELA 4	4 units
Mathematics	Mathematics	Mathematics	Mathematics	Mathematics (Recommended)	3 units
Social Studies	World Regional Studies	Elective (0.5)	US History	Am. Government (0.5)	3 units
Science	Science	Science	Science	Science (Recom.)	3 units
Must include 1 unit of Biological Science and 1 unit of Physical Science. 1 unit must be a laboratory science.					
Physical Education/Health	Physical Education (1.0); Health (0.5) Can be taken any time during high school.				1.5 units
Fine Arts	Fine Arts See this list for a description of courses that meet this requirement. Can be taken any time during high school.				1 unit
Financial Literacy	Financial Literacy Can be taken any time during grades 10-12.				0.5 units
World Language	World Language (2 units) Not an SMSD graduation requirement, but recommended for the Kansas Scholars Program.				

Potential Careers


Film and Video Editor, News Analyst,
Producer and Director, Public Relations
Specialist, Radio and Television Announcer,
Reporter, Sound Engineer, Writer



Journalism is what we need to
make democracy work.
-Walter Cronkite



Law Enforcement

Law Enforcement	9	10	11	12	MVA
Introductory Courses	Blue Eagle Academy				Work Experiences (Internships & Client-Connected Projects)
Technical Knowledge & Skills		Law Enforcement 1; Law Enforcement 2; Forensic Science 1; Forensic Science 2			IRCs (BLS; Certified Protection Officer)
Application			Law Enforcement 2; Law Enforcement 3		College Credit
SMSD Graduation Requirements in a Possible Sequence					
English Language Arts	ELA 1	ELA 2	ELA 3	ELA 4	4 units
Mathematics	Mathematics	Mathematics	Mathematics	Mathematics (Recommended)	3 units
Social Studies	World Regional Studies	Elective (0.5)	US History	Am. Government (0.5)	3 units
Science	Science	Science	Science	Science (Recom.)	3 units
Must include 1 unit of Biological Science and 1 unit of Physical Science. 1 unit must be a laboratory science.					
Physical Education/Health	Physical Education (1.0); Health (0.5) Can be taken any time during high school.				1.5 units
Fine Arts	Fine Arts See this list for a description of courses that meet this requirement. Can be taken any time during high school.				1 unit
Financial Literacy		Financial Literacy Can be taken any time during grades 10-12.			0.5 units
World Language	World Language (2 units) Not an SMSD graduation requirement, but recommended for the Kansas Scholars Program.				


Potential Careers

Law Enforcement,
Probation/Parole Officer,
Caseworker, Corrections
Officer, Federal Agent,
Public Safety Dispatcher,
Forensic Science
Technician



T rue public safety requires a collaboration between law enforcement and the community.
-Betsy Hodges

Manufacturing: Metal Production

Manufacturing: Metal Production	9	10	11	12	MVA
Introductory Courses	Projects in Industrial Technology (taken in middle school); Metal Production				Work Experiences (Internships & Client-Connected Projects)
Technical Knowledge & Skills		Intro to Welding; Welding 1			
Application		Welding 2			
SMSD Graduation Requirements in a Possible Sequence					
English Language Arts	ELA 1	ELA 2	ELA 3	ELA 4	4 units
Mathematics	Mathematics	Mathematics	Mathematics	Mathematics (Recommended)	3 units
Social Studies	World Regional Studies	Elective (0.5)	US History	Am. Government (0.5)	3 units
Science	Science	Science	Science	Science (Recom.)	3 units
	Must include 1 unit of Biological Science and 1 unit of Physical Science. 1 unit must be a laboratory science.				
Physical Education/Health	Physical Education (1.0); Health (0.5) Can be taken any time during high school.				1.5 units
Fine Arts	Fine Arts See this list for a description of courses that meet this requirement. Can be taken any time during high school.				1 unit
Financial Literacy		Financial Literacy Can be taken any time during grades 10-12.			0.5 units
World Language	World Language (2 units) Not an SMSD graduation requirement, but recommended for the Kansas Scholars Program.				

Potential Careers


CNC Machine Operator, Fabricator, Machinist, Manufacturing Production Operator, Maintenance,

There are three things extremely hard: steel, a diamond, and to know one's self.

-Benjamin Franklin



Manufacturing: Wood Production

Manufacturing: Wood Production	9	10	11	12	MVA
Introductory Courses	Projects in Industrial Technology (taken in middle school); Wood Design 1				Work Experiences (Internships & Client-Connected Projects)
Technical Knowledge & Skills	Wood Design 2				
Application	Wood Design and Fabrication; Computer-Aided Manufacturing				
SMSD Graduation Requirements in a Possible Sequence					
English Language Arts	ELA 1	ELA 2	ELA 3	ELA 4	4 units
Mathematics	Mathematics	Mathematics	Mathematics	Mathematics (Recommended)	3 units
Social Studies	World Regional Studies	Elective (0.5)	US History	Am. Government (0.5)	3 units
Science	Science	Science	Science	Science (Recom.)	3 units
Must include 1 unit of Biological Science and 1 unit of Physical Science. 1 unit must be a laboratory science.					
Physical Education/Health	Physical Education (1.0); Health (0.5) Can be taken any time during high school.				1.5 units
Fine Arts	Fine Arts See this list for a description of courses that meet this requirement. Can be taken any time during high school.				1 unit
Financial Literacy	Financial Literacy Can be taken any time during grades 10-12.				0.5 units
World Language	World Language (2 units) Not an SMSD graduation requirement, but recommended for the Kansas Scholars Program.				

Potential Careers

Construction Project Manager, Inspector, Electrician, Plumber, Carpenter, Heating, Air Conditioning, and Refrigeration Maintenance Technician, Architect, Civil Draftsman, Civil Engineering Technician, Electrical Engineer and Electronics Draftsman, Engineering Technician, Interior Designer, Landscape Architect, Mechanical Draftsman

A tree is our most intimate contact with nature.

-George Nakashima



Marketing

Marketing	9	10	11	12	MVA
Introductory Course	Intro to Business				Entrepreneurial Experiences; Work Experiences (Internships & Client-Connected Projects); IRCs (Adobe Certifications)
Technical Knowledge & Skills	Marketing Principals; Accounting; Entrepreneurship; Web Design; Economics 1; Business Management; Digital Design Studio				
Application	Marketing Applications; Marketing Management; Public Relations & Media				
SMSD Graduation Requirements in a Possible Sequence					
English Language Arts	ELA 1	ELA 2	ELA 3	ELA 4	4 units
Mathematics	Mathematics	Mathematics	Mathematics	Mathematics (Recommended)	3 units
Social Studies	World Regional Studies	Elective (0.5)	US History	Am. Government (0.5)	3 units
Science	Science	Science	Science	Science (Recom.)	3 units
Must include 1 unit of Biological Science and 1 unit of Physical Science. 1 unit must be a laboratory science.					
Physical Education/Health	Physical Education (1.0); Health (0.5) Can be taken any time during high school.				1.5 units
Fine Arts	Fine Arts See this list for a description of courses that meet this requirement. Can be taken any time during high school.				1 unit
Financial Literacy	Financial Literacy Can be taken any time during grades 10-12.				0.5 units
World Language	World Language (2 units) Not an SMSD graduation requirement, but recommended for the Kansas Scholars Program.				

Potential Careers

News Analyst, Producer and Director, Public Relations Specialist, Account Executive, Advertising and Brand Specialist, Creative


Director, Demonstrator and Product Promoter, Event Planner, Market Research Analyst, and Marketing Specialist, Media Director, Real Estate Agent, Survey Researcher, Wholesale and Retail Buyer



Don't push people to where you want to be; meet them where they are.

-Meghan Keaney Anderson

Medical Science

Medical Health Sciences	9	10	11	12	MVA
Introductory Courses		Nutrition & Wellness			Work Experiences (Internships & Client-Connected Projects) IRCs (BLS; Teen Mental Health First Aid) College Credit
Technical Knowledge & Skills		Exploring Medical Health Careers		Medical Health Science; Applied Medical Science; Anatomy & Physiology	
				Medical Science Clinical Investigation; Certified Nurse Aide; Sports Medicine Clinical Investigation	
Application					
SMSD Graduation Requirements in a Possible Sequence					
English Language Arts	ELA 1	ELA 2	ELA 3	ELA 4	4 units
Mathematics	Mathematics	Mathematics	Mathematics	Mathematics (Recommended)	3 units
Social Studies	World Regional Studies	Elective (0.5)	US History	Am. Government (0.5)	3 units
Science	Science	Science	Science	Science (Recom.)	3 units
	Must include 1 unit of Biological Science and 1 unit of Physical Science. 1 unit must be a laboratory science.				
Physical Education/Health	Physical Education (1.0); Health (0.5) Can be taken any time during high school.				1.5 units
Fine Arts	Fine Arts See this list for a description of courses that meet this requirement. Can be taken any time during high school.				1 unit
Financial Literacy	Financial Literacy Can be taken any time during grades 10-12.				0.5 units
World Language	World Language (2 units) Not an SMSD graduation requirement, but recommended for the Kansas Scholars Program.				

Potential Careers


Dentist, Dietitian, Nutritionist, Nurse, Occupational Therapist, Physical Therapist, Pharmacist, Physician Assistant, Physician-Doctor-Surgeon, Psychiatrist, Animal Care Technician Veterinary Assistant Veterinarian, Dental Hygienist, Sonographer, Paramedic, Health Information Technician, Nurse, Phlebotomist, Radiologic Technologist, Medical Assistant, Physical Therapy Assistant, Surgical Technologist

Wherever the art of Medicine is loved, there is also a love of Humanity.

-Hippocrates



Pre-Law

Pre-Law	9	10	11	12	MVA
Introductory Courses	Intro to the Study of Legal Systems				Work Experiences (Internships & Client-Connected Projects)
Technical Knowledge & Skills	Practical Law; Business Law; Accounting; Forensic Science 1; Forensic Science 2				
Application	Applications in Law; LPSS Internship				
SMSD Graduation Requirements in a Possible Sequence					
English Language Arts	ELA 1	ELA 2	ELA 3	ELA 4	4 units
Mathematics	Mathematics	Mathematics	Mathematics	Mathematics (Recommended)	3 units
Social Studies	World Regional Studies	Elective (0.5)	US History	Am. Government (0.5)	3 units
Science	Science	Science	Science	Science (Recom.)	3 units
Must include 1 unit of Biological Science and 1 unit of Physical Science. 1 unit must be a laboratory science.					
Physical Education/Health	Physical Education (1.0); Health (0.5) Can be taken any time during high school.				1.5 units
Fine Arts	Fine Arts See this list for a description of courses that meet this requirement. Can be taken any time during high school.				1 unit
Financial Literacy	Financial Literacy Can be taken any time during grades 10-12.				0.5 units
World Language	World Language (2 units) Not an SMSD graduation requirement, but recommended for the Kansas Scholars Program.				

Potential Careers


Arbitrator, Court Reporter, Hearing Officer, Judge, Judicial Law Clerk, Lawyer, Legal Assistant, Policy Analyst, Governmental Staff Assistant, Nonprofit Program Director, Political Scientist, Public Relations Specialist

The measure of a country's greatness is its ability to retain compassion in times of crisis.

-Thurgood Marshall



Programming & Software Development

Programming & Software Development	9	10	11	12	MVA
Introductory Course	Computer Dimensions 1 & 2 (taken in middle school); Intro to Computer Programming				College Credit
Technical Knowledge & Skills	Computer Science Principles; Web Design				Work Experiences (Internships & Client-Connected Projects);
Application	AP Computer Science; Advanced Programming Concepts; Cybersecurity; Computer Science Professional Learning Experience				IRCs (CompTIA Certifications)
SMUSD Graduation Requirements in a Possible Sequence					
English Language Arts	ELA 1	ELA 2	ELA 3	ELA 4	4 units
Mathematics	Mathematics	Mathematics	Mathematics	Mathematics (Recommended)	3 units
Social Studies	World Regional Studies	Elective (0.5)	US History	Am. Government (0.5)	3 units
Science	Science	Science	Science	Science (Recom.)	3 units
Must include 1 unit of Biological Science and 1 unit of Physical Science. 1 unit must be a laboratory science.					
Physical Education/Health	Physical Education (1.0); Health (0.5) Can be taken any time during high school.				1.5 units
Fine Arts	Fine Arts See this list for a description of courses that meet this requirement. Can be taken any time during high school.				1 unit
Financial Literacy	Financial Literacy Can be taken any time during grades 10-12.				0.5 units
World Language	World Language (2 units) Not an SMUSD graduation requirement, but recommended for the Kansas Scholars Program.				


Potential Careers

Computer Network Architect and Support Specialist, Computer Programmer, Computer Systems Analyst, Computer User Support Specialist, Software Developer, Web Developer, Hardware Engineer



How you look at it is pretty much how you'll see it"
-Rasheed Ogunlaru

Restaurant & Event Management

Restaurant & Event Management	9	10	11	12	MVA
Introductory Courses	Intro to Business; Career & Life Planning; Table Service Internship				Work Experiences (Internships & Client-Connected Projects) IRCs (ServSafe) College Credit
Technical Knowledge & Skills	Focus on Foods; Advanced Foods, Culinary Arts 1; Commercial Baking 1; Catering Management & Event Planning; Intro to Restaurant Management; Entrepreneurship				
Application	Culinary Arts 2; Commercial Baking 2				
SMSD Graduation Requirements in a Possible Sequence					
English Language Arts	ELA 1	ELA 2	ELA 3	ELA 4	4 units
Mathematics	Mathematics	Mathematics	Mathematics	Mathematics (Recommended)	3 units
Social Studies	World Regional Studies	Elective (0.5)	US History	Am. Government (0.5)	3 units
Science	Science	Science	Science	Science (Recom.)	3 units
Must include 1 unit of Biological Science and 1 unit of Physical Science. 1 unit must be a laboratory science.					
Physical Education/Health	Physical Education (1.0); Health (0.5) Can be taken any time during high school.				1.5 units
Fine Arts	Fine Arts See this list for a description of courses that meet this requirement. Can be taken any time during high school.				1 unit
Financial Literacy	Financial Literacy Can be taken any time during grades 10-12.				0.5 units
World Language	World Language (2 units) Not an SMSD graduation requirement, but recommended for the Kansas Scholars Program.				

Potential Careers


Agricultural and Food Science Technician, Chemical Technician, Farm and Ranch Manager, Dietitian, Chef, Event Coordinator, Food Service Manager, Food Scientist, Quality Assurance Manager

Food for us comes from our relatives, whether they have wings or fins or roots. That is how we consider food. Food has a culture. It has a history. It has a story. It has relationships."

– Winona LaDuke



Teacher Training

Teacher Training	9	10	11	12	MVA
Introductory Courses	Career & Life Planning; Child Development & Human Growth				Work Experiences (Internships & Client-Connected Projects)
Technical Knowledge & Skills	Teacher Education 1				
Application				Teacher Education 2; Teacher Internship	College Credit
SMSD Graduation Requirements in a Possible Sequence					
English Language Arts	ELA 1	ELA 2	ELA 3	ELA 4	4 units
Mathematics	Mathematics	Mathematics	Mathematics	Mathematics (Recommended)	3 units
Social Studies	World Regional Studies	Elective (0.5)	US History	Am. Government (0.5)	3 units
Science	Science	Science	Science	Science (Recom.)	3 units
Must include 1 unit of Biological Science and 1 unit of Physical Science. 1 unit must be a laboratory science.					
Physical Education/Health	Physical Education (1.0); Health (0.5) Can be taken any time during high school.				1.5 units
Fine Arts	Fine Arts See this list for a description of courses that meet this requirement. Can be taken any time during high school.				1 unit
Financial Literacy	Financial Literacy Can be taken any time during grades 10-12.				0.5 units
World Language	World Language (2 units) Not an SMSD graduation requirement, but recommended for the Kansas Scholars Program.				

Potential Careers


Education Administrator, Early Childhood Teacher, Elementary teacher, ESL Teacher, Librarian, School Counselor, Special Education Teacher, Speech Language Pathologist, High School Teacher



Every child deserves a champion—an adult who will never give up on them, who understands the power of connection and insists that they become the best that they can possibly be.

–Rita Pierson

Video Production

Digital Media: Video Production	9	10	11	12	MVA
Introductory Course	Intro to Business; Computer Dimensions 1 & 2 (taken in middle school); Video Production 1; Video Production 2				Work Experiences (Internships & Client-Connected Projects); IRCs (Adobe Certifications)
Technical Knowledge & Skills	Video Production Advanced				
Application	Video Production Leadership; Public Relations & Media				
SMSD Graduation Requirements in a Possible Sequence					
English Language Arts	ELA 1	ELA 2	ELA 3	ELA 4	4 units
Mathematics	Mathematics	Mathematics	Mathematics	Mathematics (Recommended)	3 units
Social Studies	World Regional Studies	Elective (0.5)	US History	Am. Government (0.5)	3 units
Science	Science	Science	Science	Science (Recom.)	3 units
Must include 1 unit of Biological Science and 1 unit of Physical Science. 1 unit must be a laboratory science.					
Physical Education/Health	Physical Education (1.0); Health (0.5) Can be taken any time during high school.				1.5 units
Fine Arts	Fine Arts See this list for a description of courses that meet this requirement. Can be taken any time during high school.				1 unit
Financial Literacy	Financial Literacy Can be taken any time during grades 10-12.				0.5 units
World Language	World Language (2 units) Not an SMSD graduation requirement, but recommended for the Kansas Scholars Program.				




Potential Careers

Camera Operator Film and Video Editor News Analyst
 Producer and Director Public Relations Specialist Radio and
 Television Announcer Reporter Sound Engineer Writer, Art
 Director Cinematographer, Photographer

Humans are incredibly visual and powerful, moving images help us find meaning... [and] video helps capture and contextualize the world around us.

-Dan Patterson

Web & Digital Communications

Web & Digital Communications	9	10	11	12	MVA
Introductory Courses	Computer Dimensions 1 & 2 (taken in middle school); Intro to Computer Programming; Graphic Design				Work Experiences (Internships & Client-Connected Projects) IRCs (Adobe Certification)
Technical Knowledge & Skills	3D Modeling & Animation 1 & 2; 2D Animation & Motion Graphics 1 & 2; Game Design & Development 1; Web Design				
Application	Game Design & Development 2				
SMSD Graduation Requirements in a Possible Sequence					
English Language Arts	ELA 1	ELA 2	ELA 3	ELA 4	4 units
Mathematics	Mathematics	Mathematics	Mathematics	Mathematics (Recommended)	3 units
Social Studies	World Regional Studies	Elective (0.5)	US History	Am. Government (0.5)	3 units
Science	Science	Science	Science	Science (Recom.)	3 units
Must include 1 unit of Biological Science and 1 unit of Physical Science. 1 unit must be a laboratory science.					
Physical Education/Health	Physical Education (1.0); Health (0.5) Can be taken any time during high school.				1.5 units
Fine Arts	Fine Arts See this list for a description of courses that meet this requirement. Can be taken any time during high school.				1 unit
Financial Literacy	Financial Literacy Can be taken any time during grades 10-12.				0.5 units
World Language	World Language (2 units) Not an SMSD graduation requirement, but recommended for the Kansas Scholars Program.				

Potential Careers

Camera Operator, Film and Video Editor, News Analyst, Producer and Director, Public Relations Specialist, Radio and Television Announcer, Reporter, Sound Engineer, Writer, Art Director, Artist, Photographer, Computer Animator, Graphic Designer, Illustrator, Printing Equipment Operator, Web Page Designer



The Internet has changed everything. We expect to know everything instantly. If you don't understand digital communication, you're at a disadvantage.

-Bob Parsons

High School Program Planning

The Shawnee Mission School District offers a comprehensive Program Planning Guide for students in grades nine through twelve. It 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.

All courses listed in this guide are “enrollment based,” which means that they will be scheduled if there is sufficient enrollment to provide staffing for the course. In addition, some courses are offered on a rotating basis. Not all courses are available at every high school. Check with your school counselor if you have questions.

It is important that these decisions be made carefully with personal objectives and future goals in mind. Your parents, 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.

District Graduation Requirements

In Shawnee Mission School District, 23.5 units of credit in grades 9-12 will be required. Please see Board Policy IHF for details.

The high school graduation requirements are designed to be completed in eight semesters. A candidate for graduation from this school 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 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 Horizons, 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 will advance forward in grade level based on the number of years they have been in high school. Beginning with the 2021-2022 school year, students will no longer be required to meet a minimum credit threshold to advance to the next grade level. However, students must meet all graduation requirements in order to graduate. The following chart should be used as a guide to evaluate whether a student is on track for graduation.

GRADE LEVEL	CREDIT GOAL
End of Grade 9	5.5 credits
End of Grade 10	11.5 credits
End of Grade 11	16.5 credits
End of Grade 12	23.5 credits

Graduation Requirements

COURSES	SMSD CLASS OF 2020 AND BEYOND GRADUATION REQUIREMENTS	RECOMMENDED KANSAS SCHOLARS CURRICULUM
ENGLISH LANGUAGE ARTS 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 SMSD graduation requirements fulfill the minimum requirement in this subject area.
SOCIAL STUDIES 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 SMSD graduation requirements fulfill the minimum requirement in this subject area.
MATHEMATICS 3.0 units	3 units	4 approved units Integrated Algebra/Geometry 1 and 2, Plus: Algebra II and one unit advanced mathematics *Completion of Algebra I in 8th grade is acceptable for the Kansas Scholars Curriculum.

SCIENCE 1 unit of Biological Science and 1 unit of Physical Science 1 unit must be a laboratory science	3 units	3 units Biology Chemistry Physics A fourth year of science is recommended.
PHYSICAL EDUCATION Physical Education 1 unit <i>(One year of Citizenship/Leadership Development NS = 0.5 credit of PE)</i>	1 unit	
WORLD LANGUAGE		2 units of one World Language
HEALTH	0.5 unit	
FINE ARTS <i>See the following section for a description of courses that meet this requirement.</i>	1 unit	
FINANCIAL LITERACY	0.5 unit	
TOTAL REQUIRED UNITS	16 units	
ELECTIVE UNITS	7.5 units	
GRADUATION REQUIREMENT TOTAL	23.5 units	

Fine Arts Graduation Requirement

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

Visual Arts

Credit in all visual art courses may apply toward the fine arts credit.

Business

Digital Design
Digital Design Studio
Game Design and Development
Web Design

Construction and Design

Computer-Aided Manufacturing Design 1
Computer-Aided Architectural Design 2, Computer-Aided Architectural

Design, Computer-Aided Industrial Design, Introduction to Computer-Aided

Family and Consumer Science

Apparel 1 & 2
Commercial Baking 1 & 2
Culinary Arts 1 & 2
Foods, Advanced
Foods, International
Interior Design
Fashion, Apparel and Interior Design Essentials
Fashion, Apparel Interior Design Studio
Fashion Merchandising

Manufacturing

Welding 1 & 2
Wood Design and Fabrication
Wood Design 2

Center for Academic Achievement

Commercial Baking 1 & 2
Culinary Arts 1 & 2
Game Design and Development
2D Animation and Motion Graphics 1 & 2
3D Modeling and Animation 1 & 2

(list continued on next page)

Engineering-Project Lead the Way

Introduction to Engineering Design

IB Programs

IB Dance

IB Film Studies SL IB Film Studies HL

English Language Arts

Actor's Studio

Competitive Speech and Drama,

Beginning and Advanced

Introduction to Theater

News Media - Digital Production

Photo - Digital Production

Repertory Theatre

Repertory Theatre, Advanced

Technical Theater

Video Production 2

Video Production, Advanced

Yearbook - Digital Production

Performing Arts

Credit in all performing arts courses may apply toward the fine arts credit.

Physical Education

Dance

Credit Attainment

Students may achieve 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, or for the class of 2024 and beyond, grades of "C" will also receive weighting.

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.

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.

Academic Grades or Marks

All academic grades shall be determined solely by student achievement of clearly stated course competencies and standards. Possible grades or marks are defined as follows:

LETTER GRADE/ MARK	DEFINITION Student demonstrates...	PERCENTAGE/DESCRIPTION
A	Advanced mastery of standards	90% - 100%
B	Proficient mastery of standards	80% - 89%
C	Basic mastery of standards	70% - 79%
D	Developing mastery of standards	60% - 69%
F	Student fails to demonstrate mastery of standards	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.
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 completed sufficient work to earn a grade, such as a student who transfers from another school district with this grade designation listed on their transcript.
NG	No Grade	Used for seminar and other time periods where no grades are applied.
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.
WF	No Credit	Student withdraws from a course with a failing grade. WF- Withdraw Failing
WP	No Credit	Student withdraws from a course with a passing grade. WP - Withdraw Passing

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 "P," "E," "NG," "WP," or "WF" are not used in the GPA computation formula.

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 "P," "E," "NG," "WP" or "WF" are not used in the GPA computation formula. Students who earn all "A's" will have special designation by an asterisk on any information distributed to the public.

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 that are used at each GPA calculation period are as follows:

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 left 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. The right table is for your 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 (honors course***)		X 3.0	
C (regular course)		X 2.0	
D (all courses)		X 1.0	
F (all courses)		X 0.0	
TOTAL	17.5		55.5

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 (honors course***)		X 3.0	
C (regular course)		X 2.0	
D (all courses)		X 1.0	
F (all courses)		X 0.0	
TOTAL			

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

* Courses that are awarded other letters such as P 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.

*** In effect for the students in the graduating class of 2024.

Grade Calculation

Course grades are calculated over an entire semester and are designed to be a representation of growth over the entire semester of a course. Quarter grades are markers of progress for a student/parent/family and are not considered permanent. We do not average quarter grades to create a semester grade. The cumulative nature of learning in our courses is reflected by the cumulative calculation of the grade throughout the semester.

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 at 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.

Course Additions and Withdrawals

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.

College & Career Considerations

College & Career Ready 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. Please see the [Sample Pathway Four-Year Plans](#) for several examples of course sequences. There are many possible combinations of courses. Students should make schedule decisions based on district graduation requirements, college and career plans, and personal preference.

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 Shawnee Mission East and Shawnee Mission 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), are computed as follows:

For students graduating in 2021 – 2023:
A = 5 points, B = 4 points, C = 2 points, D = 1 point, F = 0 points.

**For student graduating in class of 2024 and beyond,
the weighted courses will be awarded as follows:**
A = 5 points, B = 4 points, C = 3 points, D = 1 point, F = 0 point.

International Baccalaureate Course Fee (SM East and SM Northwest)

The current fee for course testing is \$119.00 (2022-2023). Fees are subject to change based upon the fee structure established by the International Baccalaureate Organization. The candidate subject fee is paid for each assessed subject taken by an individual student. There is no fee for the reflective project. An additional late fee will be incurred for a DP subject registration, reflective project registration or amendment to a subject, level or language after the first registration deadline. The late fee increases again after the second deadline.

Selective College Admissions, Non-Kansas Board of Regents, and Out-of-State Colleges/Universities

Those students anticipating enrollment in highly selective private or public colleges or universities should investigate the specific requirements of those institutions of higher education and make appropriate course and activity selections. Students who plan to attend colleges or universities who are not governed by the Kansas Board of Regents, including out-of-state, need to contact the admissions department for specific guidance regarding enrollment.

Kansas Board of Regents - Qualified Admissions

The Kansas Board of Regents (KBOR) institutions, along with their admission requirements, are listed below:

University	Minimum ACT and/or GPA
Emporia State	21 ACT OR 2.25 GPA
Fort Hays State	21 ACT OR 2.25 GPA
Kansas State	21 ACT OR 3.25 GPA
Pittsburg State	21 ACT OR 2.25 GPA
University of Kansas	3.25 GPA OR 21 ACT WITH 2.00 GPA
Wichita State	21 ACT OR 2.25 GPA

Please check with the university to which you are applying to ensure that you understand their admission requirements. Shawnee Mission School District strongly encourages students interested in attending a college or university after high school graduation to follow the rigorous guidelines outlined in this section.

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 between April of the sophomore year and December of the senior year and complete the Kansas Scholars curriculum which includes:

1. 4 years of English
2. 4 years of math (Integrated Algebra/Geometry 1 and 2 - 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 one world language

For more information regarding the Kansas Scholars Curriculum, please reference the following web site:

https://www.kansasregents.org/students/student_financial_aid/kansas_scholars_curriculum.

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: https://www.kansasregents.org/students/student_financial_aid/general_info for more information.

Concurrent Credit

Shawnee Mission high school students 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. Not all 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.

For JCCC: <http://www.jccc.edu/admissions/early-college/index.html>

For Baker University:

<https://www.bakeru.edu/admissions/residential-admissions-process/concurrent-credit-partnership/>

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.

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 are 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:

<https://www.jccc.edu/admissions/early-college/high-school-concurrent-enrollment/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 campus 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 a college planning program 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.

Career Pathways

Shawnee Mission students explore career interests throughout their education from elementary school to high school. Career Pathways offer high school elective courses in a range of subjects and high-demand 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. Please see the [Real World Learning](#) Section for more information.

Career Pathways Advanced Standing Credit

Career Pathways Advanced Standing Credit is a program that articulates high school classes to credit at Johnson County Community College and other Kansas community colleges at no cost to the student. As part of Career Pathways, instructors from participating high schools and Kansas community colleges 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 for college coursework in any field, a student may apply to receive the advanced standing credit for eligible high school courses. Please go to: <https://www.jccc.edu/admissions/early-college/career-pathways/> to find the most current list of articulated classes for JCCC.

The credit is subject to the following guidelines at JCCC:

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

Signature Programs

Signature Programs provide Shawnee Mission 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 Planning Guide course information) at each of the respective high schools with advanced coursework offered at the Center for Academic Achievement Campus (CAA) and Career and Technical Center Campus (CTC).

For additional information visit the Signature Programs page under the Academics tab at www.smsd.org.

Biotechnology	CAA
Culinary Arts & Hospitality	CAA and High Schools
Game Design & Animation	CAA
Engineering – Project Lead the Way	CAA and High Schools
International Baccalaureate	SM East and SM Northwest
Medical Health Science	CAA
Project Blue Eagle (Fire, EMS, Law Enf)	CTC

Athletics: National Collegiate Athletic Association (NCAA) Eligibility

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 Student Services Office in your local comprehensive high school.

CORE UNITS REQUIRED FOR NCAA ELIGIBILITY	DIVISION I	DIVISION II
English core	4 units	3 units
Mathematics core (Algebra 1 or higher)	3 units	2 units
Science core, Natural/Physical (1 yr of lab if offered)	2 units	2 units
Social Studies core	2 units	2 units
Additional English, Math, or Natural/Physical Science	1 unit	3 units
Additional courses (English, Math, Natural/Physical Science, Social Science, World Languages).	4 units	4 units
TOTAL CORE UNITS REQUIRED	16 units	16 units

Core Units/ Courses:

Only courses that appear on your high school's list of NCAA core courses will count toward the 16 core-course requirement; visit the NCAA Eligibility Center (<https://web3.ncaa.org/ecwr3/>) to access a full list of your high school's approved core courses.

Divisions I and II use sliding scales to match test scores and GPAs to determine eligibility. The sliding scale balances your test score with your GPA. If you have a low test score, you need a higher GPA to be eligible. Find more information about test scores and the relationship with GPA, please review at

http://fs.ncaa.org/Docs/eligibility_center/Student_Resources/IE_Brochure.pdf.

A guide to student-athletes is found at the following web address:
http://fs.ncaa.org/Docs/eligibility_center/Student_Resources/CBSA.pdf

Courses delivered through Edgenuity within the Shawnee Mission School District **do not** meet the NCAA eligibility standards.

Additional traditional courses in SMSD that **do not** meet NCAA eligibility standards are as follows:

- Computer Science/Information Technology: Computer Science Courses
- English Language Arts: Communication Skills 1 and 2 ,Contemporary Communications, Intro to Theatre (Drama), Technical Writing,
- Mathematics: Consumer Math and Finance, Intermediate Algebra
- Science: Biotechnology Courses, Global Issues in Science 1 and 2, Medical Health Science,
- Social Sciences: Applications in Law

Athletics: NAIA Eligibility

To be academically eligible, the eligibility center requires that incoming freshmen meet two of the following three criteria. Transfer students or those who took a break between high school and college will need to fulfill additional requirements, which are outlined on the NAIA eligibility requirements page.

- Achieve a minimum of 18 on the ACT or 970 on the SAT*
- Achieve a minimum overall high school grade point average of 2.0 on a 4.0 scale
- Graduate in the top half of their high school class.

*These test score requirements are for any athletes taking standardized tests after May 1, 2019. The test score requirements will be a 16 ACT or an 860 SAT for tests completed between March 1, 2016 and May 1, 2019. The test score requirements will be an 18 ACT or an 860 SAT for tests completed prior to March 1, 2016.

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.

Support for Learning

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 <https://www.smsd.org/academics/special-education>.

Section 504

Section 504 of the Rehabilitation Act is a federal civil rights law passed by the U.S. Congress in 1973. The law prohibits entities receiving federal financial assistance from discriminating against individuals on the basis of a disability. The law also requires that public elementary and secondary schools provide a free and appropriate public education (FAPE), which may include accommodations and related services designed to meet the educational needs of students with disabilities as adequately as the needs of a nondisabled student. For more information on Section 504 of the Rehabilitation Act, please visit <https://www.smsd.org/academics/section-504-information>.

Health Information

The Shawnee Mission School District complies with Kansas health law which is as follows:

In each school year, every pupil enrolling or enrolled in any school for the first time in this state, and each child enrolled for the first time in a preschool or day care program operated by a school, and such other pupils as may be designated by the secretary, prior to admission to and attendance at school, shall present to the appropriate school board certification from a physician or local health department that the pupil has received such tests and inoculations as are deemed necessary by the secretary by such means as are approved by the secretary. Pupils who have not completed the required inoculations may enroll or remain enrolled while completing the required inoculations if a physician or local health department certifies that the pupil has received the most recent appropriate inoculations in all required series. Failure to timely complete all required series shall be deemed non-compliance.

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 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. A physician's order must accompany all prescription medications. Prescription medication must be in the original, pharmaceutically-labeled container. Non-prescription medication must be accompanied by a note from the parent/guardian giving instructions regarding dosage times, how long the medication should be administered at school, and if there are any side effects of which the nurse should be aware. Non-prescription medications must be in the original labeled package. Medication permission forms are available from the school nurse or on the district health services web page and are included as part of annual online verification. 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. Transfer applications are accepted during the transfer window, March 1- April 30, for the following school year. 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 (see policy [JBC](#) and/or [JBCB](#)).

Note that this policy may change due to HB 2567, passed by the Kansas Legislature in 2022.

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. Online databases are available for student use both in school and at home from the high school library 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:

<https://www.smsd.org/academics/summer-programs>.

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. Students on suspension or expulsion are not eligible to enroll and attend Horizons High School until those periods of suspension have been completed.

eSchool

For information regarding course costs associated with eSchool, please contact (913.993.9740) or refer to eSchool webpage: <https://www.smsd.org/academics/eschool>

Course Information

Course Costs

Art

7610	Art, Independent Study	Cost will vary depending on student's emphasis.
7603	Art Portfolio Preparation	Course cost is \$30.00.*
7670	Ceramics	Course cost is \$30.00.*
7698	Digital Photo	Course cost is \$30.00.*
7645	Drawing	Course cost is \$30.00.*
7649	Drawing 2	Course cost is \$30.00.*
7627	Graphic Design - Art	Course cost is \$30.00.*
7536	Introduction to Studio Art	Course cost is \$30.00.*
7683	Jewelry/Sculpture Studio	Course cost is \$30.00.*
7650	Painting	Course cost is \$30.00.*
7696	Dark Room Photography	Course cost is \$30.00.*
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.

Business

6944	Marketing Applications	Course cost is \$30.00.*
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English Language Arts

1064	Competitive Speech and Drama, Beginning	Course cost is \$25.00.**
1065	Competitive Speech and Drama, Advanced	Course cost is \$25.00.**
1424	Debate, Novice - Fall	Course cost is \$25.00.**
1434	Debate, Advanced Honors - Fall	Course cost is \$25.00.**
1441	Photo Digital Productions	Course cost is \$25.00.**
1450	Introduction to Theater	Students participating in drama may be required to buy additional props or uniforms to supplement those provided by the district.

1521	Video Production 1	Course cost is \$25.00.
1522	Video Production 2	Course cost is \$25.00.
1523	Advanced Video Production	Course cost is \$25.00.

** Additional charges for travel / overnight expenses may be required for all Competitive Speech/Drama and Debate courses.

Family and Consumer Sciences

6390	Apparel Production 1	Course cost determined by projects chosen by student
6391	Apparel Production 2	Course cost determined by projects chosen by student
6408	**Commercial Baking 1	Course cost is \$50.00 for consumables.
6409	**Commercial Baking 2	Course cost is \$50.00 for consumables.
6406	**Culinary Arts 1	Course cost is \$50.00 for consumables.
6407	**Culinary Arts 2	Course cost is \$50.00 for consumables.
6383	Fashion, Apparel and Interior Design Essentials	Course cost is \$10.00.
6313	Fashion, Apparel and Interior Design Studio	Course cost is \$20.00.
6330	Focus on Foods	Course cost is \$20.00.
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	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.

**Construction and Design,
Manufacturing, Mobile Equipment
Maintenance (Formerly 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	Course cost is \$25.00.* Students provide transportation to school site.
6896 (SMW)	Welding, Introduction to	Course cost is \$15.00.* Students provide transportation to school site.
6897 (SMW)	Welding 1	Course cost is \$50.00.* Students provide transportation to school site.

6898 (SMW)	Welding 2	Course cost is \$50.00.* 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.

* Additional costs may be incurred based on the complexity of the student's project.

Mathematics

Scientific calculators are typically used in Integrated Algebra/Geometry 1 & 2, Algebra 1, and Geometry. Classroom sets are available. Graphing calculators may be used in all high school mathematics courses. A TI-84 series graphing calculator is required for Intermediate Algebra and subsequent courses and may be rented through the school for \$20 for the year.

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

4130	Biology 1	Course cost will not exceed \$3.00.
4131	Biology 1 (H)	Course cost will not exceed \$3.00.
4151	Biology 2 AP	Course cost will not exceed \$3.00.
4133	Biotechnology 1	Course cost is \$30.00.
4143	Recombinant DNA and Protein Diagnostics (H)	Course cost is \$30.00.
4145	Biotech in Agriculture and Pharmaceuticals(H)	Course cost is \$30.00.
4147	Biotech Research and Professional and Learning Experience (H)	Course cost is \$30.00.
4170	Chemistry 1	Course cost will not exceed \$3.00.

4169	Chemistry 1 (H)	Course cost will not exceed \$3.00.
4183	Chemistry 2 (H) /AP	Course cost will not exceed \$3.00.
4510	Earth & Space Science	Course cost will not exceed \$3.00.
4252	Environmental Education 1	Course cost will not exceed \$3.00.
4244 4245	Forensics 1,2	Course cost will not exceed \$3.00.
4410	Human Anatomy & Physiology	Course cost is \$15.00.
4128	Physical Science	Course cost will not exceed \$3.00.
4152	IB Biology HL 1 (H)	Course cost will not exceed \$3.00.
4153	IB Biology HL 2 (H) 1	Course cost will not exceed \$3.00.
4172	IB Chemistry SL 1 (H)	Course cost will not exceed \$3.00.
4173	IB Chemistry SL 2 (H)	Course cost will not exceed \$3.00.
4411	Zoology	Course cost is \$10.00.

Teacher Education

6515	*Teacher Education 1	Students provide transportation to school field site.
6516	*Teacher Education 2	Students provide transportation to school field site.
6517	*Teacher Internship	Students provide transportation to school field site.

* 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 the work site.
9320	College Campus Study	Students provide transportation.

9938	Community Service	Students provide transportation to and from the community service site.
0882	Mentor Program	Students provide transportation to mentor sites.
9065	NJROTC/NNDC	District transportation is not provided for special activities.
	Project Search	Uniform cost \$50.00

Biotechnology

4133	Biotechnology 1	Course cost is \$30.00.
4143	Recombinant DNA and Protein Diagnostics (H)	Course cost is \$30.00.
4145	Biotech in Agriculture and Pharmaceuticals (H)	Course cost is \$30.00.
4147	Biotech Research and Professional and Learning Experience (H)	Course cost is \$30.00.

Culinary Arts and Hospitality

6408	**Commercial Baking 1	Course cost is \$50.00 for consumables.
6409	**Commercial Baking 2	Course cost is \$50.00 for consumables.
6406	**Culinary Arts 1	Course cost is \$50.00 for consumables.
6407	**Culinary Arts 2	Course cost is \$50.00 for consumables.

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

Medical Health

4138	*Medical Health Clinical Investigation	Course cost is \$20.00.
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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.

Advanced Placement Examinations

Course cost for the advanced placement examination is determined annually by the College Board.

Art / Visual Art

Art / Visual Art Course Offerings At-a-Glance

	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Art History	0.5	✓	✓	✓	✓	✓				✓	
Art, Independent Study	0.5			✓	✓	✓	✓			✓	varies
Art Portfolio Preparation	0.5			✓	✓	✓	✓			✓	\$30
Ceramics	0.5	✓	✓	✓	✓	✓	✓			✓	\$30
Dark Room Photography	0.5	✓	✓	✓	✓	✓				✓	\$30
Digital Photo	0.5	✓	✓	✓	✓	✓				✓	\$30
Drawing 1	0.5	✓	✓	✓	✓	✓	✓				\$30
Drawing 2	0.5		✓	✓	✓	✓	✓			✓	\$30
Graphic Design - Art	0.5	✓	✓	✓	✓	✓	✓			✓	\$30
Graphic Design - Project Management	1.0		✓	✓	✓	✓	✓			✓	
Introduction to Studio Art	0.5	✓	✓	✓	✓	✓					\$30
Jewelry/Sculpture Studio	0.5	✓	✓	✓	✓	✓	✓			✓	\$30
Painting	0.5	✓	✓	✓	✓	✓	✓			✓	\$30
Studio Art AP 2-D Design	1.0				✓	✓	✓	✓			varies
Studio Art AP 3-D Design	1.0				✓	✓	✓	✓			varies
Studio Art AP Drawing	1.0				✓	✓	✓	✓			varies

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Art / Visual Art

Note: Introduction to Studio Art, Drawing 1 and Studio Art AP 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	
Pathway: Visual Arts	Strand: Graphic Design Pathway
Technical Level	Intro to Drawing (0.5)
	Graphic Design - Art (0.5)
	Digital Photo (0.5)
	Digital Design (0.5)
	Digital Design Studio (1.0)
	Drawing 2 (0.5)
Application Level	Graphic Design Project Management (1.0)
	Editorial Leadership (1.0)

ART HISTORY **7615**
1/2 unit 9,10,11,12
Prerequisite – None

Introducing art within historical, social, geographical, political, and religious 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 is a virtual course that does not meet NCAA eligibility requirements. This course is also offered through eSchool.

ART, INDEPENDENT STUDY **7610**
1/2 unit 11,12
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 the student's emphasis.

ART PORTFOLIO PREPARATION **7603**
1/2 unit 11,12
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 and learn about visual arts as

a profession. Professional practice will happen within schools, especially in designated art galleries. These galleries will show student work, professional artists' work, and incorporate community programming. Students will work with local organizations to engage in Real World Learning opportunities with a wide range of galleries, museums, arts organizations, companies, and professions such as art education and art therapy. Students may also work on portfolio development, preparation for college, scholarship competitions, exhibit presentation, and art appreciation. Course cost is \$30.00. Additional fees may be assessed based on the materials/media chosen by the student.

CERAMICS **7670**
1/2 unit 9,10,11,12
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. Course cost is \$ 30.00. Additional fees may be assessed based on the materials/media chosen by the student.

DARK ROOM PHOTOGRAPHY **7696**
1/2 unit 9,10,11,12
Prerequisite – None

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. Course cost is \$30.00. This course is repeatable. Additional fees may be assessed based on the materials/media chosen by the student.

DIGITAL PHOTO **7698**
1/2 unit 9,10,11,12
Prerequisite – None

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. Adobe Creative Cloud Suite – Photoshop &/or Lightroom software will be used in this course. Course cost is \$30.00. Additional fees may be assessed based on the materials/media chosen by the student.

Art / Visual Art

DRAWING 1

1/2 unit

7645

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. Course cost is \$30.00. Additional fees may be assessed based on the materials/media chosen by the student.

DRAWING 2

1/2 unit

7649

10,11,12

Prerequisite – Drawing 1

This course is designed for those who have completed Drawing 1 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. Adobe Creative Cloud Suite – Photoshop &/or Lightroom software will be used in this course. Course cost is \$30.00. Additional fees may be assessed based on the materials/media chosen by the student.

GRAPHIC DESIGN - ART

1/2 unit

7627

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. Adobe Creative Cloud Suite – Photoshop &/or Lightroom software will be used in this course. Course cost is \$30.00. Additional fees may be assessed based on the materials/media chosen by the student.

GRAPHIC DESIGN - PROJECT MANAGEMENT

1 unit

7628

10,11,12

Prerequisite – Graphic Design - Art or Digital Design

The Graphic Design Project Management 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.

INTRODUCTION TO STUDIO ART

1/2 unit

7536

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. Course cost is \$30.00. Additional fees may be assessed based on the materials/media chosen by the student.

JEWELRY/SCULPTURE STUDIO

1/2 unit

7683

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. Course cost is \$30.00. Additional fees may be assessed based on the materials/media chosen by the student.

PAINTING

1/2 unit

7650

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. Course cost is \$30.00. Additional fees may be assessed based on the materials/media chosen by the student.

STUDIO ART

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

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

7633 – 1 unit – AP Studio Art: Drawing

1 unit

12

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

Business Course Offerings At-a-Glance

	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Accounting	1.0		✓	✓	✓						
Banking and Finance	0.5		✓	✓	✓		✓				
Business Finance Professional Learning Experience	Varies			✓	✓		✓			✓	
Business Independent Study	0.5	✓	✓	✓	✓		✓				
Business Law	0.5	✓	✓	✓	✓						
Business Management	0.5	✓	✓	✓	✓						
Digital Design	0.5	✓	✓	✓	✓	✓					
Digital Design Studio	1.0		✓	✓	✓	✓					
Digital Design Project Management	1.0			✓	✓		✓			✓	
Entrepreneurship	0.5		✓	✓	✓						
Financial Literacy	0.5		✓	✓	✓	✓					
Introduction to Business	0.5	✓	✓	✓	✓						
Investing	0.5		✓	✓	✓		✓				
Marketing Principles	1.0		✓	✓	✓						
Marketing Applications	1.0			✓	✓		✓				\$30
Marketing Management	1.0			✓	✓		✓				
Marketing Professional Learning Experience	0.5				✓		✓			✓	
Risk Management & Insurance	0.5		✓	✓	✓		✓				
Web Design	1.0		✓	✓	✓	✓					

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Business

SMSD Career Pathways

Pathway: Marketing

Intro Level	Intro to Business (0.5)
Technical Level	Marketing Principles (1.0)
	Entrepreneurship (0.5)
	Economics I (0.5)
	Accounting (1.0)
	Web Design (1.0)
	Business Management (0.5)
	Digital Design Studio (1.0)
Application Level	Marketing Applications (1.0)
	Marketing Management (1.0)
	Marketing Professional Learning Experience (1.0)

Pathway: Business Management/Entrepreneurship

Intro Level	Intro to Business (0.5)
Technical Level	Entrepreneurship (0.5)
	Business Management (0.5)
	Business Law (0.5)
	Economics I (0.5)
	Accounting (1.0)
	Marketing Principles (1.0)
Application Level	Applied Business Development (1.0)

Pathway: Business Finance

Intro Level	Intro to Business (0.5)
Technical Level	Financial Literacy (0.5)
	Entrepreneurship (0.5)
	Economics (0.5)
	Accounting (1.0)
	Business Law (0.5)

Application Level	Banking and Finance (0.5)
	Investing (0.5)
	Risk Management & Insurance (0.5)
	Business Finance Professional Learning Experience (Varies)

ACCOUNTING 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.

BANKING AND FINANCE 6037

1/2 unit 10,11,12
Prerequisite - Intro to Business

Students will focus on all aspects of banking and financial analysis. This course will also address examining and applying the methods used for measuring the financial performance of banks in addition to examining specialized brokerage products, current issues, and future trends in banking.

BUSINESS FINANCE PROFESSIONAL LEARNING EXPERIENCE 6043

Unit - Variable 11,12
Prerequisite - Banking and Finance OR Investing OR Risk Management & Insurance; Teacher Recommendation

Professional Learning Experience courses provide students with work experience in fields related to finance. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace. This course is repeatable for credit.

BUSINESS - INDEPENDENT STUDY 6110

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

BUSINESS LAW

1/2 unit

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.

6120

9,10,11,12

BUSINESS MANAGEMENT

1/2 unit

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.

6031

9,10,11,12

DIGITAL DESIGN

1/2 unit

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.

6010

9,10,11,12

DIGITAL DESIGN STUDIO

1 unit

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.

6011

10,11,12

DIGITAL DESIGN PROJECT MANAGEMENT

1 unit

Prerequisite – Digital Design Studio or Teacher Approval

The Digital Design Project Management 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

6012

11,12

project management to solve specific digital communication challenges. Course may be repeated for credit. Course may qualify for JCCC advanced standing credit.

ENTREPRENEURSHIP

1/2 unit

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.

6947

10,11,12

FINANCIAL LITERACY

1/2 unit

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. This is a required course. This course is also offered through eSchool.

6387

10,11,12

INTRODUCTION TO BUSINESS

1/2 unit

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.

6030

9,10,11,12

INVESTING

1/2 unit

Prerequisite – Intro to Business

Investing courses emphasize the formulation of business and individual investment decisions by comparing and contrasting the investment qualities of cash, stock, bonds, and mutual funds. Students typically review annual reports, predict growth rates, and analyze trends. Stock market simulations are often incorporated into Investing courses.

6039

10,11,12

MARKETING PRINCIPLES

1 unit

Prerequisite – Intro to Business 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

6943

10,11,12

Business

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.

MARKETING APPLICATIONS **6944** 1 unit 11,12

Prerequisite – Marketing Principles / 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. Projects will be presented at the state-level DECA competition. Course cost is \$30.00.

MARKETING MANAGEMENT **6945** 1 unit 11,12

Prerequisite – Marketing Principles / Marketing 1

This project-based marketing course exposes students to all facets of promotion, advertising, and visual merchandising as they relate to successful businesses. Course content includes: marketing mix, SWOT analysis, marketing plan development, traditional and non-traditional promotions, direct marketing, sales promotion, public relations, interactive media, market segmentation, viral marketing, visual merchandising, advertising, legal & ethical issues, and career exploration. Students have the opportunity to develop and present a professional advertising campaign or promotional plan for an existing business or product, and design effective visual merchandising strategies for an actual school-based enterprise.

MARKETING PROFESSIONAL LEARNING EXPERIENCE **6950** 1/2 unit 12

Prerequisite – Marketing Principles / Marketing 1 or Marketing Applications

Students will gain experience and understanding of all aspects of the industry through an off-site internship or job shadow. Students will gain industry-related skills in planning, management, finance, technology, labor issues, community involvement, safety, and personal work habits. This course may be repeated for credit.

RISK MANAGEMENT & INSURANCE **6038** 1/2 unit 10,11,12

Prerequisite – Intro to Business

Students analyze risk management techniques from the viewpoints of those employed in the industry as well as of business owners seeking to meet risk management needs. Insurance products are evaluated in relation to cost and effectiveness.

WEB DESIGN **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.

Note: Animation and game design courses can be found in the Signature Program section under [Animation and Game Design](#).

Computer Science (Information Technology)

Computer Science (Information Technology) Course Offerings At-a-Glance

	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Advanced Programming Concepts H	1.0			✓	✓		✓	✓			
Computer Science A AP	1.0		✓	✓	✓		✓	✓			
Computer Science Independent Study	0.5		✓	✓	✓		✓			✓	
Computer Science Principles (CSP) H	1.0	✓	✓	✓	✓			✓			
Computer Science Professional Learning Experience H	0.5			✓	✓		✓	✓		✓	
Cybersecurity (H) (CAA) (2 hr block per sem)	1.0		✓	✓	✓			✓			
Introduction to Computer Programming	0.5	✓	✓	✓	✓		✓				

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Computer Science (Information Technology)

SMSD Career Pathways	
Pathway: Information Technology	Strand: Programming & Software Development
Intro Level	Computer Dimensions 1 & 2 (taken in middle school)
Technical Level	Intro to Computer Programming (0.5)
	Computer Science Principles (H) (1.0)
Application Level	AP Computer Science A (H) (1.0)
	Cybersecurity (H) (1.0)
	Advanced Programming Concepts (H) (1.0)

ADVANCED PROGRAMMING CONCEPTS H **2097**
1 unit 11,12

Prerequisite – AP Computer Science A

This course develops skills that build 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 engage in client-connected projects.

COMPUTER SCIENCE A AP **2096**
1 unit 10,11,12

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

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

COMPUTER SCIENCE – INDEPENDENT STUDY **2101**
1/2 unit 10,11,12

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. This course is repeatable for credit.

COMPUTER SCIENCE PRINCIPLES (CSP) H **2216**
1 unit 9,10,11,12

Prerequisite – None

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 PROFESSIONAL LEARNING EXPERIENCES H **2102**

1/2 unit (Variable) 11,12
Prerequisite – Successful completion of one or more CS classes and/or teacher recommendation.

This course is for students doing off-site internships at local tech companies (Garmin, Cerner, etc.). Many experiences require application and interview by the hosting business. Students complete meaningful workplace job tasks that develop readiness for work, knowledge and skills that support entry or advancement in a particular career field. Performance is evaluated by the work manager in addition to educators. This course is repeatable for credit.

CYBERSECURITY H (CAA) **6632**
1 unit (2-hour block per semester) 10,11,12

Prerequisite – Computer Science Principles or Intro to Computer Programming or Digital Electronics recommended
Students identify cybersecurity threats and protect against them; detect intrusions and respond to attacks; begin to examine their own digital footprint and better defend their own personal data; and learn how organizations protect themselves in today's world. Whether seeking a career in the growing field of cybersecurity or learning to defend a company's data, students in Cybersecurity establish an ethical code of conduct while learning to defend data in today's complex cyberworld. This course, offered as part of the PLTW® pathway, brings together the strands of computer science and engineering. Students have the option to continue their study independently pursuing CompTIA Security+ certification with instructor support.

INTRODUCTION TO COMPUTER PROGRAMMING **2033**
1/2 unit 9,10,11,12

Prerequisite – Algebra 1/Integrated Alg/Geom 1 or concurrent enrollment

This course provides an introduction to 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

Computer Science (Information Technology)

Programming is not a prerequisite for Computer Science Principles (H), 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.

Construction and Design

Construction and Design Course Offerings At-a-Glance

	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Computer-Aided Architectural Design 1	1.0		✓	✓	✓	✓	✓				
Computer-Aided Architectural Design 2	1.0			✓	✓	✓	✓				
Computer-Aided Industrial Design	1.0		✓	✓	✓	✓	✓				
Introduction to Computer-Aided Design	1.0	✓	✓	✓	✓	✓					

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Construction and Design

SMSD Career Pathways	
Pathway: Construction & Design	Strand: Design
Intro Level	Projects in Industrial Technology (0.5 - MS)
Technical Level	Introduction to Computer-Aided Design (1.0)
	Computer-Aided Architectural Design 1 (1.0)
Application Level	Interior Design (0.5)
	Computer-Aided Architectural Design 2 (1.0)

COMPUTER-AIDED ARCHITECTURAL DESIGN 1 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 students. Credit may be applied toward the minimum fine arts graduation requirement.

COMPUTER-AIDED ARCHITECTURAL DESIGN 2 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 students. Credit may be applied toward the minimum fine arts graduation requirement.

COMPUTER-AIDED INDUSTRIAL DESIGN 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 students. Course may qualify for JCCC advanced standing credit. Credit may be applied toward the minimum fine arts graduation requirement.

INTRODUCTION TO COMPUTER-AIDED DESIGN 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 students. Credit may be applied toward the minimum fine arts graduation requirement.

Note: Additional courses in the Construction and Design pathway can be found in the FACS section (Interior Design) and in the Signature Programs section under Engineering (Introduction to Engineering Design, Principles of Engineering and Robotics).

Digital Media

Digital Media Course Offerings At-a-Glance

	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Editorial Leadership - Newspaper	1.0		✓	✓	✓		✓			✓	
Editorial Leadership - Yearbook	1.0		✓	✓	✓		✓			✓	
News Media - Digital Production	1.0	✓	✓	✓	✓	✓	✓			✓	
Public Relations & Media	0.5			✓	✓		✓			✓	
Photo - Digital Production	0.5	✓	✓	✓	✓	✓	✓			✓	\$25
21st Century Journalism	0.5	✓	✓	✓	✓						
Video Production 1	0.5	✓	✓	✓	✓						\$25
Video Production 2	0.5	✓	✓	✓	✓	✓	✓			✓	\$25
Video Production, Advanced	1.0			✓	✓	✓	✓			✓	\$25
Video Production Leadership	1.0			✓	✓		✓			✓	
Yearbook - Digital Production	1.0	✓	✓	✓	✓	✓	✓			✓	

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Digital Media

SMSD Career Pathways		
Pathway: Digital Media	Strand: Journalism	Strand: Video Production
Intro Level	Intro to Business (0.5)	Intro to Business (0.5)
Technical Level	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)	
Application Level	Digital Design Project Management (1.0)	Video Production, Advanced (1.0)
	Editorial Leadership (1.0)	Video Production Leadership (1.0)
	News Media, Photo, Yearbook Digital Production(1.0)	

EDITORIAL LEADERSHIP – NEWSPAPER **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.

EDITORIAL LEADERSHIP – YEARBOOK **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.

NEWS MEDIA – DIGITAL PRODUCTION **1440**
1 unit 9,10,11,12

Prerequisite – 21st Century Journalism

This class provides 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.

PUBLIC RELATIONS & MEDIA **1672**
1/2 unit 11,12

Prerequisite – Marketing and/or Video Productions and teacher approval

This course will build skills needed to communicate messages to the public through advertising and public relations activities. Topics will include creating publicity materials, advertising and public relations campaigns, working with school-based clients, and using various media skills and platforms to relay messages. This class can be repeated for credit.

PHOTO - DIGITAL PRODUCTION **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. Course cost is \$25.00. Credit may be applied toward the minimum fine arts graduation requirement. The course may be repeated for credit.

21st CENTURY JOURNALISM **1481**
1/2 unit 9,10,11,12

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.

VIDEO PRODUCTION 1 **1521**
1/2 unit 9,10,11,12

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

Digital Media

the equipment and techniques used to develop a quality video production. Students may have the opportunity to explore a broadcast studio space. Course cost is \$25.00.

VIDEO PRODUCTION 2 **1522**
1/2 unit 9,10,11,12

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 workflow to project planning and completion and the software, equipment and tools used in the industry. Credit may be applied toward the minimum fine arts graduation requirement. Course cost is \$25.00. Course may be repeated for credit..

VIDEO PRODUCTION, ADVANCED **1523**
1 unit 11,12

Prerequisite – Video Production 2 and 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. Course cost is \$25.00.

VIDEO PRODUCTION LEADERSHIP **1524**
1 unit 11,12

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. Course may be repeated for credit.

YEARBOOK – DIGITAL PRODUCTION **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.

Note: Additional courses in the Digital Media Pathways can be found in Art (Digital Photo-Art), and in Business (Digital Design, Digital Design Studio, Digital Design Project Management and Intro to Business).

English Language Arts (ELA)

English Language Arts (ELA) Course Offerings At-a-Glance

	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Actor's Studio	0.5		✓	✓	✓	✓	✓			✓	
Competitive Speech & Drama, Beginning	0.5	✓	✓	✓	✓	✓					\$25
Competitive Speech & Drama, Advanced	0.5	✓	✓	✓	✓	✓	✓			✓	\$25
Contemporary Communications (CAA) (CTC)	0.5			✓	✓	✓	✓			✓	
Debate, Novice	0.5	✓	✓	✓	✓						\$25
Debate, Advanced (H)	0.5	✓	✓	✓	✓		✓	✓		✓	\$25
Directed Reading	0.5	✓	✓	✓	✓		✓				
ELA 1	1.0	✓				✓			✓		
ELA 1 H	1.0	✓				✓		✓	✓		
ELA 2	1.0		✓			✓	✓		✓		
ELA 2 H	1.0		✓			✓	✓	✓	✓		
ELA 3	1.0			✓		✓	✓		✓		
AP English Language and Composition	1.0			✓		✓	✓	✓	✓		
ELA 4	1.0				✓	✓	✓		✓		
AP English Literature and Composition	1.0				✓	✓	✓	✓	✓		
ELA 4 College Now Honors	1.0				✓	✓	✓	✓	✓		
Communication Skills 1	0.5	✓	✓	✓	✓						
Communication Skills 2	0.5	✓	✓	✓	✓		✓				
Introduction to Theater	1.0	✓	✓	✓	✓						varies
Language Arts Independent Study	1.0	✓	✓	✓	✓		✓			✓	
Mock Trial	0.5	✓	✓	✓	✓					✓	
Reading Expeditions	0.5		✓	✓	✓						
Repertory Theatre	1.0			✓	✓	✓	✓			✓	
Repertory Theatre, Advanced	1.0				✓	✓	✓				

English Language Arts (ELA)

Technical Theatre	0.5		✓	✓	✓	✓	✓			✓	
Technical Writing & Applied Communications	1.0				✓		✓				
United States Latino Literature (SMN)	1.0		✓	✓	✓	✓	✓		✓		
Writer's Workshop	0.5	✓	✓	✓	✓					✓	
Individual Goals - ELA	1.0	✓	✓	✓	✓	✓	✓				
ACT/SAT Preparation	0.5		✓	✓	✓						
	Units	9	10	11	12	G	P	W	NCAA	R	Cost

Column Header Key

9, 10, 11, 12 = Availability by Grade Level

G = Meets a Graduation Requirement

P = Prerequisite

W = Weighted in GPA Calculation

NCAA = Meets NCAA Eligibility Requirements

R = Can Be Repeated for Credit

English Language Arts (ELA)

ACTOR'S STUDIO

1610

1/2 unit

10,11,12

Prerequisite – Introduction to Theater

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 the 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 1064

1/2 unit

9,10,11,12

Prerequisite – None

Students participate in acting, public speaking, and debate categories and will represent their school by competing in tournaments. These competitions will also allow students the opportunity to join the National Speech and Debate Association Honor Society. Skills in the areas of confidence, performance, persuasion, and audience appeal are emphasized in this course. Course cost is \$ 25.00. Credit may be applied toward the minimum fine arts graduation requirement.

COMPETITIVE SPEECH AND DRAMA, ADVANCED 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). 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)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.

*This course does not meet NCAA eligibility requirements.

DEBATE, NOVICE

1424

1/2 unit/Fall

9,10,11,12

Prerequisite – None

Debate is a co-curricular activity. Skills in the areas of speaking, thinking, organization, research, and writing are emphasized in this course. Students also develop leadership, teamwork, cooperation, and dependability. Students learn to support both sides of a controversial policy question and will represent their school by competing at debate tournaments. These competitions will also allow students the opportunity to join the National Speech and Debate Association honor society. Course cost is \$25.

DEBATE, ADVANCED (H)

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. Course cost is \$25.00. This course may be repeated for credit.

DIRECTED READING

9162

1/2 unit

9,10,11,12

Prerequisite – IEP team recommendation

Enrollment in the course is determined by the student's IEP team. This course is designed to provide explicit specially designed instruction in the area of reading. The course focuses on intervention strategies and explicit reading instruction. Enrollment in this course requires approval of the IEP team. This course may be applied toward the minimum elective graduation requirement.

English Language Arts (ELA)

ELA 1 **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 participating in small group and whole group discussions.

ELA 1 (H) **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 participating in small group and whole group critical discussions.

ELA 2 **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 participating in small group and whole group critical discussions.

ELA 2 (H) **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.

ELA 3 **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. This course is also offered through eSchool.

AP ENGLISH LANGUAGE AND COMPOSITION **1153**
 1 unit 11
1155 (IB - SME/SMN/SMNW) 11

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.

ELA 4 **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. This course is also offered through eSchool.

AP ENGLISH LITERATURE AND COMPOSITION **1630**
 1 unit 12
(IB - SME/SMN/SMNW) 1633 12

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.

ELA 4 COLLEGE NOW HONORS **1158**
 1 unit 12
Prerequisite – ELA 3, plus 19 on ACT (English portion) or 3.0 GPA

This College Now version of the ELA course is a non-AP opportunity for students who would like to earn college credit their senior year but do not desire to enroll in an AP class.

English Language Arts (ELA)

COMMUNICATION SKILLS 1

1060

1/2 unit

9,10,11,12

Prerequisite – None

Students explore the basics of presentation skills and speaking in front of various audiences. They will participate in several communication activities to prepare them for future courses and careers. These activities will include informative speeches using multimedia and visual aids, persuasive speeches citing research over a topic of their choice, oral interpretation of literature, impromptu speaking, career study presentations, job interview practices, debates over socially relevant topics, discussion of current events and issues, and analysis of public speeches

COMMUNICATION SKILLS 2

1070

1/2 unit

9,10,11,12

Prerequisite – Communication Skills 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.

INTRODUCTION TO THEATER

1450

1 unit

9,10,11,12

Prerequisite – None

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.

LANGUAGE ARTS INDEPENDENT STUDY

1670

1 unit

9,10,11,12

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.

MOCK TRIAL

1220

1/2 unit

9,10,11,12

Prerequisite – None

Students prepare to represent clients in both civil and criminal trials. Students prepare for trial by learning to write opening statements, closing arguments, and direct and cross-examinations. As student-attorneys, students learn the rules of evidence, courtroom procedures, and decorum.

As part of a litigation mock trial team, student attorneys try their cases against other mock trial teams in real courtrooms with practicing attorneys serving as judges. Students study areas of the law such as negligence, tort liability, wrongful death, murder, assault and battery, and libel. This course may be repeated for credit.

READING EXPEDITIONS

1532

1/2 unit

10,11,12

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

11,12

Prerequisite - Introduction to Theater, 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

12

Prerequisite – Repertory Theater or teacher recommendation

This is a select, all-senior performing group. Interested drama students apply in 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.

TECHNICAL THEATRE

1582

1/2 unit

10,11,12

Prerequisite – Introduction to Theater 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 the teacher.

English Language Arts (ELA)

Credit may be applied toward the minimum fine arts graduation requirement.

TECHNICAL WRITING AND APPLIED COMMUNICATIONS

1635

1 unit

12

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.

UNITED STATES LATINO LITERATURE (SMN)

1157

1 unit

10,11,12

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 the 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. Students may choose

to receive ELA 3, ELA 4, or elective credit. This course is only offered at SM North.

WRITER'S WORKSHOP

1410

1/2 unit

9,10,11,12

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, 9

0318

INDIVIDUAL GOALS - ELA, 10

0328

INDIVIDUAL GOALS - ELA, 11

0329

INDIVIDUAL GOALS - ELA, 12

0330

1 unit

9, 10, 11, 12

Prerequisite – IEP team recommendation

Enrollment in the course is determined by the Individual Education Program team. The course will be based on an alternate curriculum. The credit in this course may be applied toward the minimum graduation requirement in English Language Arts.

ACT/SAT PREPARATION

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.

Family and Consumer Science

Family and Consumer Science Course Offerings At-a-Glance

	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Career and Life Planning	0.5	✓	✓								
FACS Independent Study	0.5	✓	✓				✓			✓	
Financial Literacy	0.5		✓	✓	✓	✓					
Nutrition and Wellness	0.5		✓	✓	✓						\$20
Focus on Foods	0.5	✓	✓	✓	✓						\$20
Foods, Advanced	0.5		✓	✓	✓	✓	✓				\$20
Foods, International	0.5		✓	✓	✓	✓	✓				\$20
Apparel Production 1	0.5	✓	✓	✓	✓	✓	✓				
Apparel Production 2	0.5		✓	✓	✓	✓	✓				
Fashion, Apparel and Interior Design Essentials	0.5	✓	✓	✓	✓	✓					\$10
Fashion, Apparel and Interior Design Studio	1.0			✓	✓	✓	✓			✓	\$20
Fashion Merchandising	0.5		✓	✓	✓	✓	✓				
Interior Design	0.5		✓	✓	✓	✓	✓				\$10

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W = Weighted in GPA Calculation

NCAA = Meets NCAA Eligibility Requirements

R = Can Be Repeated for Credit

Family and Consumer Science

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

GENERAL COURSES

CAREER AND LIFE PLANNING **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 **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 **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. Students will have the ability to test out of this course with an approved district assessment.

NUTRITION AND WELLNESS **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. Course cost is \$20.00.

INTRODUCTORY COURSES FOR CULINARY ARTS

For advanced coursework in the culinary arts, see the Signature Program section under Culinary Arts.

FOCUS ON FOODS **6330**
1/2 unit 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. Course cost is \$20.00.

FOODS, ADVANCED **6321**
1/2 unit 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.

FOODS, INTERNATIONAL **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.

Family and Consumer Science

FASHION, APPAREL, INTERIOR DESIGN COURSES

APPAREL PRODUCTION 1 6390

1/2 unit 9,10,11,12

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. Credit may be applied toward the minimum fine arts graduation requirement. Course cost is determined by projects chosen by the student.

APPAREL PRODUCTION 2 6391

1/2 unit 10,11,12

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.

FASHION, APPAREL AND INTERIOR DESIGN ESSENTIALS 6383

1/2 unit 9,10,11,12

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 affect great aesthetics. Credit may be applied toward the minimum fine arts graduation requirement. Course cost is \$10.00.

FASHION, APPAREL AND INTERIOR DESIGN STUDIO (FAID) 6313

1 unit 11,12

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 shadow-ship experiences, students will have the opportunity to observe what the day-to-day work is like in their career interest area. Credit may be applied toward the minimum fine arts graduation requirement. This course is repeatable for credit. Course cost is \$20.00.

FASHION MERCHANDISING 6310

1/2 unit 10,11,12

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. Credit may be applied toward the minimum fine arts graduation requirement.

INTERIOR DESIGN 6312

1/2 unit 10,11,12

Prerequisite – Fashion, Apparel and Interior Design Essentials

An technical 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's needs, career opportunities, and current and future trends in the industry. Credit may be applied toward the minimum fine arts graduation requirement. Course cost \$10.00.

Manufacturing

Manufacturing Course Offerings At-a-Glance

	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Computer-Aided Manufacturing	1.0				✓	✓	✓				
Introduction to Computer-Aided Design	1.0	✓	✓	✓	✓	✓					
Metal Production (SMW)	0.5	✓	✓	✓	✓						\$25
Welding, Introduction to (SMW)	0.5		✓	✓	✓						\$15
Welding 1 (SMW)	1.0			✓	✓	✓	✓				\$50
Welding 2 (SMW)	1.0				✓		✓				\$50
Wood Design 1	1.0	✓	✓	✓	✓						
Wood Design 2	1.0		✓	✓	✓	✓	✓				
Wood Design and Fabrication	1.0			✓	✓	✓	✓				

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Manufacturing

SMSD Career Pathways		
Pathway: Manufacturing	Strand: Metal Production	Strand: Wood Production
Intro Level	Projects in Industrial Tech (Middle school)	Projects in Industrial Tech (Middle school)
	Intro to Welding (0.5)	Wood Design 1 (1.0)
Technical Level	Intro to Computer-Aided Design (1.0)	Intro to Computer-Aided Design (1.0)
	Welding 1 (1.0)	Wood Design 2 (1.0)
	Metal Production (1.0)	
Application Level	Welding 2 (1.0)	Wood Design and Fabrication (1.0)
		Computer-Aided Manufacturing (1.0)

COMPUTER-AIDED MANUFACTURING **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.

INTRODUCTION TO COMPUTER-AIDED DESIGN **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 the student. Credit may be applied toward the minimum fine arts graduation requirement.

METAL PRODUCTION (SMW) **6927**
1/2 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) **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 projects. This course is offered only at SM West. Students must provide transportation to SM West.

WELDING 1 (SMW) **6897**
1 unit 11,12

Prerequisite – Welding, Introduction to, or 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. Students provide transportation to 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.

WELDING 2 (SMW) **6898**
1 unit 12

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.

Manufacturing

WOOD DESIGN 1

1 unit

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.

6908

9,10,11,12

WOOD DESIGN 2

1 unit

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 the student and approved by the instructor. Credit may be applied toward the minimum fine arts graduation requirement.

6905

10,11,12

WOOD DESIGN AND FABRICATION

1 unit

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 the student and approved by the instructor. Credit may be applied toward the minimum fine arts graduation requirement.

6895

11,12

Mathematics

Mathematics Course Offerings At-a-Glance

	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Algebra 1	1.0	✓	✓	✓	✓	✓			✓		Calc
Algebra 2	1.0	✓	✓	✓	✓	✓	✓		✓		Calc
Algebra 2 (H)	1.0	✓	✓	✓	✓	✓	✓	✓	✓		Calc
Algebra 3	1.0			✓	✓	✓	✓		✓		Calc
Calculus AB AP	1.0			✓	✓	✓	✓	✓	✓		Calc
Calculus BC AP	1.0			✓	✓	✓	✓	✓	✓		Calc
Calculus 3 (H)	0.5				✓	✓	✓	✓	✓		Calc
College Algebra/Trig	1.0		✓	✓	✓	✓	✓		✓		Calc
Consumer Math and Finance	1.0			✓	✓	✓	✓				Calc
Differential Equations (H)	0.5				✓	✓	✓	✓	✓		Calc
Discrete Mathematics	0.5		✓	✓	✓	✓	✓		✓		Calc
Geometry	1.0	✓	✓	✓	✓	✓	✓		✓		Calc
Geometry (H)	1.0	✓	✓	✓	✓	✓	✓	✓	✓		Calc
Individual Goals Math	0.5-1.0	✓	✓	✓	✓	✓	✓				Calc
Intermediate Algebra	1.0		✓	✓	✓	✓	✓				Calc
Integrated Algebra/Geometry 1	1.0	✓				✓			✓		Calc
Integrated Algebra/Geometry 2	1.0	✓	✓			✓	✓		✓		Calc
Mathematics Extension	0.5	✓	✓	✓	✓	✓	✓			✓	Calc
Mathematics - Independent Study	0.5	✓	✓	✓	✓	✓	✓			✓	Calc

Mathematics

Precalculus (H)	1.0		✓	✓	✓	✓	✓	✓	✓		Calc
SAT/ACT Preparation	0.5		✓	✓	✓						Calc
Statistics	0.5		✓	✓	✓	✓	✓		✓		Calc
Statistics AP	1.0		✓	✓	✓	✓	✓	✓	✓		Calc
	Units	9	10	11	12	G	P	W	NCAA	R	Cost

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Mathematics

NOTE ON THE USE OF CALCULATORS:

Scientific calculators are typically used in Integrated Algebra/Geometry 1 & 2, Algebra 1, and Geometry. Classroom sets are available. Graphing calculators may be used in all high school mathematics courses. A TI-84 series graphing calculator is required for Intermediate Algebra and subsequent courses and may be rented through the school for \$20 for the year.

ALGEBRA 1 2050

1 unit 9,10,11,12

Prerequisite – None

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

ALGEBRA 2 2060

1 unit 9,10,11,12

Prerequisite – Geometry 2110, 2114 or Integrated Alg/Geom 2 2056 or teacher recommendation

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.

ALGEBRA 2 H 2064

1 unit 9,10,11,12

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

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.

ALGEBRA 3 2190

1 unit 11,12

Prerequisite – Algebra 2

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.

CALCULUS AB AP 2161

1 unit 11,12

Prerequisite – College Algebra/Trig or Precalculus H

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).

CALCULUS BC AP 2162

1 unit 11,12

Prerequisite – Precalculus H

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).

CALCULUS 3 (H) 2202

1/2 unit 12

Prerequisite – Calculus BC AP

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.

COLLEGE ALGEBRA / TRIG 2152

1 unit 10,11,12

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.

CONSUMER MATH AND FINANCE 2195

1 unit 11,12

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.

DIFFERENTIAL EQUATIONS (H) 2203

1/2 unit 12

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.

DISCRETE MATHEMATICS 2176

1/2 unit 10,11,12

Prerequisite – Algebra 2

Topics include graph theory, counting, recursion, matrices, and social decision-making. The applications for these

Mathematics

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.

GEOMETRY **2110**

1 unit 9,10,11,12

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.

GEOMETRY (H) **2114**

1 unit 9,10,11,12

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

Students develop knowledge in mathematics through transformations, congruence, and similarity. Essential topics include isometric and similarity transformations, coordinate geometry, proofs of geometric theorems, constructions, right triangle trigonometry, 2D and 3D measurement, working with circles. Application and modeling are emphasized. Students are expected to master the topics of Geometry as listed under course 2110 (plus a few additional topics), but at a faster pace and deeper application.

INTEGRATED ALGEBRA / GEOMETRY 1 **2054**

1 unit 9

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.

INTEGRATED ALGEBRA / GEOMETRY 2 **2056**

1 unit 9,10

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. Application, modeling, and reasoning are emphasized.

INTERMEDIATE ALGEBRA **2070**

1 unit 10,11,12

Prerequisite – Geometry or Integrated Alg/Geom 2

This course is designed to introduce and further mathematical concepts needed to be successful in Algebra

II. This course will focus on teaching strategies that enhance a student’s ability to find success in current and future mathematics classes in addition to the following math concepts: foundational algebraic skills, introduction, exploring, and graphing functions (linear, absolute value, and quadratic) and operations of polynomials.

MATHEMATICS EXTENSION **2012**

1/2 unit 9,10,11,12

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.

MATHEMATICS – INDEPENDENT STUDY **2211**

1/2 unit 9,10,11,12

Prerequisite – Teacher recommendation

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

PRECALCULUS (H) **2154**

1 unit 10,11,12

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

STATISTICS **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 **2247**

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

Mathematics

the 1/2 credit Statistics course. Students enrolling in the course may qualify for JCCC credit (College Now).

INDIVIDUAL GOALS - MATH, 9 **0218 / 0219**
INDIVIDUAL GOALS - MATH, 10 **0213 / 0216**
INDIVIDUAL GOALS - MATH, 11 **0214 / 0217**
INDIVIDUAL GOALS - MATH, 12 **0215 / 0220**

1 unit / 1/2 unit

9, 10, 11, 12

Prerequisite - IEP team recommendation

Enrollment in the course is determined by the Individual Education Program team. The course will be based on an alternate curriculum. The credit in this course may be applied toward the minimum graduation requirement in Math.

SAT/ACT PREPARATION

1/2 unit

9937

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.

Mobile Equipment Maintenance

Mobile Equipment Maintenance Course Offerings At-a-Glance

	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Automotive Essentials	0.5	✓	✓	✓	✓						
Automotive Technology 1	1.0		✓	✓	✓						
Automotive Technology 2, 2 hr block per sem or 1 hr block for full year	1.0			✓	✓		✓				
Automotive Technology 3, 2 hr block per sem or 1 hr block for full year	1.0			✓	✓		✓				\$15

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Mobile Equipment Maintenance

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

AUTOMOTIVE ESSENTIALS

6601

1/2 unit

9, 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 the school site. This course is recommended for all students who currently own or plan to own their own vehicle.

AUTOMOTIVE TECHNOLOGY 1

6602

1 unit

10, 11, 12

Prerequisite – None

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 the school site. Course cost is determined by projects chosen by students.

AUTOMOTIVE TECHNOLOGY 2

6603

1 unit (2-hour block per semester or 1-hour full year) 11, 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 the school site. Course cost determined by projects chosen by the student.

AUTOMOTIVE TECHNOLOGY 3

6604

1 unit (2-hour block per semester or 1-hour full year) 11, 12

Prerequisite – Automotive Technology 2

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 the school site. Course cost is determined by projects chosen by students.

Music / Performing Arts

Music / Performing Arts Course Offerings At-a-Glance

	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Band, Concert, Freshman, Marching, Symphonic, Wind	0.5	✓	✓	✓	✓	✓	✓			✓	
Choir, A Cappella, Men, Women	1.0	✓	✓	✓	✓	✓	✓			✓	
Choir, Chamber Singers	1.0	✓	✓	✓	✓	✓	✓			✓	
Choir, Men Select	0.5	✓	✓	✓	✓	✓	✓			✓	
Choir, Women Select	0.5	✓	✓	✓	✓	✓	✓			✓	
Choral Ensemble	1.0	✓	✓	✓	✓	✓	✓			✓	
Guitar	0.5	✓	✓	✓	✓	✓				✓	
Instrumental Ensemble	0.5	✓	✓	✓	✓	✓	✓			✓	
Jazz Ensemble 1	1.0	✓	✓	✓	✓	✓	✓			✓	
Jazz Ensemble 2	1.0			✓	✓	✓	✓			✓	
Music, Independent Study	0.5	✓	✓	✓	✓	✓	✓			✓	
Music Technology	1.0	✓	✓	✓	✓	✓					
Music Theory (H)	1.0			✓	✓	✓	✓	✓			
Music - Voice Technique	0.5	✓	✓	✓	✓	✓				✓	
Orchestra, Chamber, Symphonic, String Ensemble	1.0	✓	✓	✓	✓	✓	✓			✓	
Individual Goals - Fine Arts	1.0	✓	✓	✓	✓	✓	✓				

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Music / Performing Arts

BAND

Band	7188
Concert	7195
Freshman	7196
Marching	7197
Symphonic	7198
Wind Ensemble	7199

1/2 unit 9, 10, 11, 12

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. Except for Band-Freshman, courses may be repeated, provided students enroll in consecutive semesters of band, for a maximum of 4 units of credit. Exceptions will be made at the discretion of the director.

CHOIR

Choir	7116
A Cappella	7117
Men	7119
Women	7120

1 unit 9, 10, 11, 12

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 7118

1 unit 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. Course may be repeated for credit.

CHOIR – MEN SELECT 7129

1/2 unit 9,10,11,12

Prerequisite – Placement by teacher

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

CHOIR – WOMEN SELECT 7130

1/2 unit 9,10,11,12

Prerequisite – Placement by teacher

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

CHORAL ENSEMBLE 7113

1 unit 9,10,11,12

Prerequisite – Placement by teacher

Choral ensembles are small, select musical groups. Ensemble performance of the highest level is expected. Course may be repeated for credit.

GUITAR 7240

1/2 unit 9,10,11,12

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 7185

1/2 unit 9,10,11,12

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. Course may be repeated for credit.

JAZZ ENSEMBLE 1 7253

1 unit 9,10,11,12

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. Course may be repeated for credit.

JAZZ ENSEMBLE 2 7252

1 unit 11,12

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. Course may be repeated for credit.

MUSIC – INDEPENDENT STUDY 7291

1/2 unit 9,10,11,12

Prerequisite – Teacher recommendation

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

Music / Performing Arts

MUSIC TECHNOLOGY

7251

1 unit

9, 10, 11, 12

Prerequisite – none

This course will integrate music skills with computers, digital mixing consoles, microphones, and recording software. This course will encompass podcasting, looping, solo or small group recording as well as large ensemble recording and sequencing. Students will learn about music and copyright implications, appropriate use of various hardware and software solutions commonly found in recording and editing studios.

MUSIC THEORY (H)

7271

1 unit

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.

MUSIC – VOICE TECHNIQUE

7320

1/2 unit

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. Course may be repeated for credit.

ORCHESTRA

Orchestra

7161

Chamber

7164

Symphonic

7165

String Ensemble

7166

1 unit

9, 10, 11, 12

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.

INDIVIDUAL GOALS – FINE ARTS

0508

1 unit

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

Physical Education and Health Course Offerings At-a-Glance

	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Advanced Weight Training	0.5	✓	✓	✓	✓	✓	✓			✓	
Dance	0.5	✓	✓	✓	✓	✓				✓	
Dual and Individual Sports	0.5	✓	✓	✓	✓	✓				✓	
Fitness for Life 1	0.5	✓	✓	✓	✓	✓					
Fitness for Life 2	0.5	✓	✓	✓	✓	✓	✓				
Health Education 1	0.5	✓	✓	✓	✓	✓					
Health Education 2	0.5	✓	✓	✓	✓		✓				
Individual Fitness	0.5	✓	✓	✓	✓	✓				✓	
Personalized Physical Education	0.5	✓	✓	✓	✓	✓					
Physical Education Concepts	0.5	✓	✓	✓	✓	✓				✓	
Team Games	0.5		✓	✓	✓	✓				✓	
Weight Training	0.5	✓	✓	✓	✓	✓				✓	
Individual Goals - Health	0.5	✓	✓	✓	✓	✓	✓				

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Physical Education and Health

ADVANCED WEIGHT TRAINING

8260

1/2 unit

9,10,11,12

Prerequisite – Teacher recommendation

This course is to further enhance the individual development in weight training and conditioning. Advanced weight lifting routines and increasing strength and endurance will be covered. Course may be repeated for credit.

DANCE

8171

1/2 unit

9,10,11,12

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.

DUAL AND INDIVIDUAL SPORTS

8160

1/2 unit

9,10,11,12

Prerequisite – None

Students learn dual and individual sports that will be available to them as adults. Activities may include: net games, aquatic games, disc golf, recreation games, bowling, golf, and archery. These activities will be divided in various combinations throughout the semester. Course may be repeated for credit.

FITNESS FOR LIFE 1

ES8165

1/2 unit

9,10,11,12

Prerequisite – None

Exploring fitness topics such as safe exercise, injury prevention, and stress management, this course equips 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 and is not repeatable for credit.

This course is only available through eSchool, see the Specialized Programs, eSchool, for more information.

FITNESS FOR LIFE 2

ES8166

1/2 unit

9,10,11,12

Prerequisite – Fitness For Life 1

This course provides students with more opportunities to explore and apply fitness topics such as safe exercise and injury prevention, nutrition and weight management, consumer product evaluation, impact of sports and exercise on fitness, leadership skills, and stress management. This course equips students to assess individual fitness levels and refine their fitness plans to meet their individual fitness goals. Students will incorporate activities into their fitness plan to support cardiovascular health, muscular strength; endurance, and flexibility. There is an emphasis on the

importance of exercise and nutrition to promote life-long fitness. *This course does not meet NCAA eligibility requirements and is not repeatable for credit.

This course is only available through eSchool, see the Specialized Programs, eSchool, for more information.

HEALTH EDUCATION 1

9220

1/2 unit

9,10,11,12

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.

HEALTH EDUCATION 2

9225

1/2 unit

9,10,11,12

Prerequisite – Health 1

This course curriculum includes a deeper exploration of the seven dimensions of health and how they depend on each other. Content is explored through the lens of public health issues related to mental health, nutrition and wellness, disease prevention, addiction, violence prevention, and first aid/CPR. Careers in health services are researched and explored. This course does not meet the SMSD graduation requirement for Health. This is a general elective credit only.

INDIVIDUAL FITNESS

8467

1/2 unit

9,10,11,12

Prerequisite – None

This course offers the opportunity to participate in lifetime physical fitness activities with a focus on personalized fitness. Course may be repeated for credit.

PERSONALIZED PHYSICAL EDUCATION

8470

1/2 unit

9,10,11,12

Prerequisite – None

This course offers participation in lifetime physical fitness activities while building mentorship and leadership skills. Students will need to complete an interview process that will be conducted by the Department Chair. This course is designed to provide a physical education setting that is conducive and inclusive for both students who receive special education services and general education students.

PHYSICAL EDUCATION CONCEPTS

8032 / 8034(G)

1/2 unit

9,10,11,12

Prerequisite – None

This course provides an opportunity for students to participate in a variety of physical concepts and learn the value of quality lifetime physical fitness. Units may include: individual, dual, and team sports, fitness-based activities, rhythmic activities, and aquatics. Course may be repeated for credit.

(G) Designates course for girls only

Physical Education and Health

TEAM GAMES

1/2 unit

Prerequisite – None

Students participate in various competitive team games and activities including football, softball, ultimate frisbee, volleyball, basketball, soccer, team handball, speedball, and lead-up games. Course may be repeated for credit.

8230

10,11,12

INDIVIDUAL GOALS - HEALTH

1/2 unit

Prerequisite – IEP team recommendation

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

0502

9,10,11,12

WEIGHT TRAINING

1/2 unit

Prerequisite – None

This course is to introduce the individual development in weight training and conditioning. Techniques of weight lifting and increasing strength and endurance will be covered. Course may be repeated for credit.

(G) Designates course for girls only

8256 / 8257(G)

9,10,11,12

Science

Science Course Offerings At-a-Glance

	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Biology 1	1.0	✓				✓			✓		\$3
Biology 1 (H)	1.0	✓				✓		✓	✓		\$3
Biology 2 AP	1.0		✓	✓	✓	✓	✓	✓	✓		\$3
Biotechnology, Introduction to	0.5		✓	✓	✓	✓	✓				\$30
Chemistry 1	1.0		✓	✓	✓	✓	✓		✓		\$3
Chemistry 1 (H)	1.0		✓	✓	✓	✓	✓	✓	✓		\$3
Chemistry 2 AP	1.0			✓	✓	✓	✓	✓	✓		\$3
Earth & Space Science	1.0		✓	✓	✓	✓	✓		✓		\$3
Environmental Education 1	1.0			✓	✓	✓	✓		✓		\$3
Environmental Education 2	1.0				✓	✓	✓		✓		
Environmental Science AP	1.0			✓	✓	✓	✓	✓	✓		
Forensic Science 1	0.5		✓	✓	✓		✓		✓		\$3
Forensic Science 2	0.5		✓	✓	✓		✓		✓		\$3
Global Issues in Science 1	0.5			✓	✓	✓	✓				
Global Issues in Science 2	0.5			✓	✓	✓	✓				
Human Anatomy and Physiology	1.0			✓	✓	✓	✓		✓		\$15
Physical Science	1.0		✓	✓	✓	✓			✓		\$3
Physics 1	1.0		✓	✓	✓	✓	✓		✓		
Physics 1 AP (H)	1.0		✓	✓	✓	✓	✓	✓	✓		

Science

Physics 2 AP (H)	1.0			✓	✓	✓	✓	✓	✓		
Science - Independent Study	0.5	✓	✓	✓	✓	✓	✓			✓	
Zoology	0.5			✓	✓	✓	✓		✓		\$10
Individual Goals - Science	1.0	✓	✓	✓	✓	✓	✓				
	Units	9	10	11	12	G	P	W	NCAA	R	Cost

Column Header Key

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G = Meets a Graduation Requirement

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W = Weighted in GPA Calculation

NCAA = Meets NCAA Eligibility Requirements

R = Can Be Repeated for Credit

Science

BIOLOGY 1 **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.

BIOLOGY 1 H **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.

BIOLOGY 2 AP **4151**

1 unit laboratory biological science 10,11,12
Prerequisite – Biology 1 with “B” or better and previous or concurrent enrollment in Chemistry 1; or teacher approval

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.

BIOTECHNOLOGY, INTRODUCTION TO **4154**

1/2 unit laboratory biological science 10,11,12
Prerequisite – Biology

This course is designed to give students an introduction to the 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. Course cost is \$30.

For advanced coursework in biotechnology see the Signature Program section under Biotechnology.

CHEMISTRY 1 **4170**

1 unit laboratory physical science 10,11,12
Prerequisite – Biology 1 and completion of or concurrent enrollment in Geometry or Integrated Algebra/Geometry 2, 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.

CHEMISTRY 1 (H) **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.

CHEMISTRY 2 AP **4183**

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.

EARTH & SPACE SCIENCE **4510**

1 unit physical science 10,11,12
Prerequisite – Biology or Biology H

This is an investigative course that integrates biology, physics, and chemistry to learn about the mechanisms by which Earth's systems interact and the nature of the universe. Students will use scientific inquiry to learn about motion of the planets, the formation of the solar system, stars, the Big Bang Theory, Earth's processes and geologic history, the methods water impacts our planet, atmospheric forces, and the distribution of natural resources. Course fee will not exceed \$3.00.

ENVIRONMENTAL EDUCATION 1 **4252**

1 unit laboratory biological science 11,12
Prerequisite – Biology

This lab and field-based course will provide an overview of environmental science with emphasis on native organisms, ecology, populations, and human impact on the environment. Students will explore the interactions between organisms and their environment, identify, analyze, and evaluate environmental problems, and propose solutions and alternatives through projects and activities. Through this course students will gain a better appreciation for the Earth and the area in which we live.

Science

ENVIRONMENTAL EDUCATION 2

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.

ENVIRONMENTAL SCIENCE AP

4241

1 unit laboratory biological science

11,12

Prerequisite – Biology 1, previous or concurrent enrollment in Chemistry 1, or teacher approval

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).

FORENSIC SCIENCE 1

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. Course fee will not exceed \$3.00.

FORENSIC SCIENCE 2

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. Course fee will not exceed \$3.00.

GLOBAL ISSUES IN SCIENCE 1

4201

1/2 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 Land Use Management, Agriculture, Bio-fuels, Genetic Engineering, Population Growth, and Infectious Disease Impact and Control.

GLOBAL ISSUES IN SCIENCE 2

4202

1/2 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 Energy Sources and Use, Water Quality and Use, Air Resource Management, and Natural Disasters.

HUMAN ANATOMY AND PHYSIOLOGY

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. Course cost is \$15.00.

PHYSICAL SCIENCE

4128

1 unit laboratory physical science

10,11,12

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

4200

1 unit laboratory physical science

10,11,12

Prerequisite – Geometry or Integrated Algebra/Geometry 2

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 approach problems, analyze situations from

Science

different perspectives, and develop their logical abstract thinking skills.

PHYSICS 1 AP (H) 4203,4204

1 unit laboratory physical science 10,11,12

Prerequisite – Completion of Algebra 2 or teacher recommendation

Students study kinematics, Newton's laws of motion, torque, rotational motion, angular momentum, gravitational motion, circular motion, work energy, power, and linear momentum.

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 (H) 4214

1 unit AP Physics 2 11,12

4217

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 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 4411

1/2 unit science elective 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 0501

1 unit lab biological science 9,10,11,12

0506

1 unit lab physical science 9, 10, 11, 12

0507

1 unit science elective 9, 10, 11, 12

Prerequisite – IEP team recommendation

Enrollment in the course is determined by the Individual Education Program team. The course will be based on an alternate curriculum. The credit in this course may be applied toward the minimum graduation requirement in Science.

Social Studies

Social Studies Course Offerings At-a-Glance

	Units	9	10	11	12	G	P	W	NCAA	R	Cost
American Government	0.5				✓	✓			✓		
American Government (H)/IB	0.5				✓	✓	✓	✓	✓		
Applications in Law	1.0				✓	✓	✓				
Economics 1	0.5		✓	✓	✓	✓			✓		
European History AP	1.0		✓	✓	✓	✓		✓	✓		
International Relations	0.5		✓	✓	✓	✓			✓		
Macroeconomics AP	0.5		✓	✓	✓	✓	✓	✓	✓		
Microeconomics AP	0.5		✓	✓	✓	✓	✓	✓	✓		
Modern World History	1.0		✓	✓	✓	✓			✓		
Practical Law	0.5		✓	✓	✓	✓			✓		
Psychology 1	0.5		✓	✓	✓	✓			✓		
Psychology 2	0.5			✓	✓	✓	✓		✓		
Psychology AP	1.0			✓	✓	✓		✓	✓		
Sociology 1	0.5			✓	✓	✓			✓		
Sociology 2	0.5			✓	✓	✓	✓		✓		
Social Studies - Independent Study	0.5-1.0	✓	✓	✓	✓	✓	✓				
United States Government and Politics AP	1.0				✓	✓		✓	✓		
United States History	1.0			✓	✓	✓			✓		
United States History AP	1.0			✓	✓	✓		✓	✓		

Social Studies

World Regional Studies	1.0	✓				✓			✓		
World Regional Studies (H)	1.0	✓				✓		✓	✓		
Individual Goals - Social Studies	0.5-1.0	✓	✓	✓	✓	✓	✓				
	Units	9	10	11	12	G	P	W	NCAA	R	Cost

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Social Studies

AMERICAN GOVERNMENT

3190

1/2 unit

12

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 principles incorporated in the United States Constitution; the organization of government at the federal, state, and local level; political parties and elections; comparative government; and foreign policy. This course is also offered through eSchool.

AMERICAN GOVERNMENT (H)/IB

3191

1/2 unit

12

Prerequisite – World Regional Studies and History of the Americas

Precepts of the American Government will be studied. The course satisfies the American Government requirement for graduation.

APPLICATIONS IN LAW

6618

1 unit

12

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.

ECONOMICS 1

3280

1/2 unit

10,11,12

Prerequisite – None

Economics 1 is designed as an introductory microeconomics course. Students will be exposed to supply and demand, different economies, factor markets, and all aspects associated with production. Students may participate in the Junior Achievement Student Company Program.

EUROPEAN HISTORY AP

3392

1 unit

10,11,12

Prerequisite – None

The study of European history provides a basic understanding of the principle themes in history. Students are introduced to the cultural, economic, and social developments that played a historical role in shaping the world in which they live. In addition, the course emphasizes the interpretation and analysis of historical materials and historical interpretation.

INTERNATIONAL RELATIONS

3290

1/2 unit

10,11,12

Prerequisite – None

Students study United States foreign policy, its philosophy, techniques, vocabulary, and implementation in historical and contemporary contexts. Contemporary, topical issues will be studied and their effect on the interests of the United States. Students will gain a better understanding of the purpose and function of major governmental and nongovernmental international organizations as well as the basic principles affecting the world economy as they relate to international relations.

MACROECONOMICS AP

3283

1/2 unit

10,11,12

Prerequisite – Algebra 1

Students study basic economic concepts including supply and demand, fiscal and monetary policy, inflation, unemployment, stabilization policies, economic growth and productivity, and international economics. Students enrolled in this course may be eligible for JCCC credit (College Now) or Baker University credit.

MICROECONOMICS AP

3282

1/2 unit

10,11,12

Prerequisite – Algebra 1

Students develop an understanding of the principles of economics and of an economic system. Primary emphasis is placed on the nature and functions of produce markets, the study of factor markets, and of the role of government in promoting greater efficiency and equity in the economy. Students enrolled in this course may be eligible for JCCC credit (College Now) or Baker University credit.

MODERN WORLD HISTORY: RENAISSANCE TO THE PRESENT

3372

1 unit

10,11,12

Prerequisite – None

Modern World History is a survey course that gives students the opportunity to explore recurring themes of human experience common to civilizations around the globe. The focus of study will be from the Renaissance to contemporary times and will include a study of the historical roots and events of Asia and Africa. Students will broaden their historical thinking; examine significant events, ideas, and movements. Additionally students will explore how world societies have dealt with continuity and change as well as war and peace, internal stability and strife, and the contributions culminating in modern western civilization.

PRACTICAL LAW

6122

1/2 unit

10,11,12

Prerequisite – None

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

Social Studies

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.

PSYCHOLOGY 1 **3340**
1/2 unit 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. This course is also offered through eSchool.

PSYCHOLOGY 2 **3350**
1/2 unit 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.

PSYCHOLOGY AP **3360**
1 unit 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 JCCC (College Now) or Baker credit.

SOCIOLOGY 1 **3370**
1/2 unit 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.

SOCIOLOGY 2 **3371**
1/2 unit 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.

SOCIAL STUDIES- INDEPENDENT STUDY **3120, 3121**
1 unit, 1/2 unit 9,10,11,12

Prerequisite – Application by the student

Students are offered an opportunity to develop a mature and individualized approach to learning. A high degree of responsibility and initiative is required.

UNITED STATES GOVERNMENT AND POLITICS AP **3207**
1 unit 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.

UNITED STATES HISTORY **3160**
1 unit 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. This course is also offered through eSchool.

UNITED STATES HISTORY AP **3165**
1 unit 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.

WORLD REGIONAL STUDIES **3396**
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

Social Studies

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.

WORLD REGIONAL STUDIES (H)

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.

INDIVIDUAL GOALS - SOCIAL STUDIES

World Regional Studies

0511

1 unit

9, 10, 11, 12

American History

0503

1 unit

9, 10, 11, 12

American Government

0504

1/2 unit

9, 10, 11, 12

Social Studies elective

0505

1/2 unit

9, 10, 11, 12

Prerequisite – IEP team recommendation

Enrollment in the course is determined by the Individual Education Program team. The course will be based on an alternate curriculum. The credit in this course may be applied toward the minimum graduation requirement in Social Studies.

Teacher Education

Teacher Education Course Offerings At-a-Glance

	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Career & Life Planning	0.5	✓	✓								
Child Development & Human Growth	0.5		✓	✓	✓						
Teacher Education 1	1.0		✓	✓	✓		✓				
Teacher Education 2	1.0			✓	✓		✓				
Teacher Internship	1.0			✓	✓		✓				

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Teacher Education

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

CAREER AND LIFE PLANNING **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.

CHILD DEVELOPMENT & HUMAN GROWTH **6491**
1/2 unit 10,11,12

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.

TEACHER EDUCATION 1 **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.

TEACHER EDUCATION 2 **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 the district curriculum to meet the 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.

TEACHER INTERNSHIP **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 Language

World Language Course Offerings At-a-Glance

	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Arabic 1 (SMS)	1.0	✓	✓	✓	✓				✓		
Arabic 2 (SMS)	1.0		✓	✓	✓		✓		✓		
Arabic 3 (SMS)	1.0			✓	✓		✓		✓		
Arabic 4 H (SMS)	1.0				✓		✓	✓	✓		
Chinese 1 (SME)	1.0	✓	✓	✓	✓				✓		
Chinese 2 (SME)	1.0		✓	✓	✓		✓		✓		
Chinese 3 (SME)	1.0			✓	✓		✓		✓		
Chinese 4 H (SME)	1.0				✓		✓	✓	✓		
French 1	1.0	✓	✓	✓	✓				✓		
French 2	1.0	✓	✓	✓	✓		✓		✓		
French 1-2 Accelerated	1.0	✓	✓	✓	✓		✓		✓		
French 3	1.0	✓	✓	✓	✓		✓		✓		
French 4	1.0		✓	✓	✓		✓		✓		
French 5 AP	1.0			✓	✓		✓	✓	✓		
French 6 H	1.0				✓		✓	✓	✓		
German 1	1.0	✓	✓	✓	✓				✓		
German 2	1.0		✓	✓	✓		✓		✓		
German 3	1.0			✓	✓		✓		✓		
German 4 H	1.0				✓		✓	✓	✓		
Japanese 1 (SMNW)	1.0	✓	✓	✓	✓				✓		
Japanese 2 (SMNW)	1.0		✓	✓	✓		✓		✓		
Japanese 3 (SMNW)	1.0			✓	✓		✓		✓		
Japanese 4 H (SMNW)	1.0				✓		✓	✓	✓		
Latin 1 (SMNW, SMS)	1.0	✓	✓	✓	✓				✓		

World Language

Latin 2 (SMNW, SMS)	1.0		✓	✓	✓		✓		✓		
Latin 3 (SMNW, SMS)	1.0			✓	✓		✓		✓		
Latin 4 H (SMNW, SMS)	1.0				✓		✓	✓	✓		
Latin 4 AP (SMNW, SMS)	1.0				✓		✓	✓	✓		
Russian 1 (SMN)	1.0	✓	✓	✓	✓				✓		
Russian 2 (SMN)	1.0		✓	✓	✓		✓		✓		
Russian 3 (SMN)	1.0			✓	✓		✓		✓		
Russian 4 H (SMN)	1.0				✓		✓	✓	✓		
Spanish 1	1.0	✓	✓	✓	✓				✓		
Spanish 2	1.0	✓	✓	✓	✓		✓		✓		
Spanish 1-2 Accelerated	1.0	✓	✓	✓	✓		✓		✓		
Spanish 3	1.0	✓	✓	✓	✓		✓		✓		
Spanish 4	1.0		✓	✓	✓		✓		✓		
Spanish 5 AP	1.0			✓	✓		✓	✓	✓		
Spanish 6 H	1.0				✓		✓	✓	✓		
Spanish for Heritage Speakers	1.0	✓	✓	✓	✓		✓		✓	✓	
World Language - Independent Study	1.0	✓	✓	✓	✓					✓	
	Units	9	10	11	12	G	P	W	NCAA	R	Cost

Column Header Key

9, 10, 11, 12 = Availability by Grade Level

G = Meets a Graduation Requirement

P = Prerequisite

W = Weighted in GPA Calculation

NCAA = Meets NCAA Eligibility Requirements

R = Can Be Repeated for Credit

World Language

ARABIC 1 (SMS)

1 unit

5300

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. Arabic 1 offers a basic understanding of the Arabic language, culture, and geography. Students can expect to understand, speak, read and write Arabic 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. In order to promote language proficiency, much of this class is taught in Arabic. This course is offered only at SM South.

ARABIC 2 (SMS)

1 unit

5302

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 speaking and writing skills. In order to promote language proficiency, much of this class is taught in Arabic. This class dives deeper into culture. This course is offered only at SM South.

ARABIC 3 (SMS)

1 unit

5304

11,12

Prerequisite – Arabic 2

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

ARABIC 4 (H) (SMS)

1 unit

5306

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 dives even deeper into culture. This course is offered only at SM South.

CHINESE 1 (SME)

1 unit

5326

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.

CHINESE 2 (SME)

1 unit

5328

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.

CHINESE 3 (SME)

1 unit

5330

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.

CHINESE 4 (H) (SME)

1 unit

5332

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.

FRENCH 1

1 unit

5010

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.

FRENCH 2

1 unit

5020

9,10,11,12

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.

FRENCH 1-2 ACCELERATED

1 unit

5080

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

World 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.

FRENCH 3 **5030**
1 unit 9,10,11,12

Prerequisite – French 2 or French 1-2 Accelerated
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.

FRENCH 4 **5040**
1 unit 10,11,12

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).

FRENCH 5 AP **5064**
1 unit 11,12

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).

FRENCH 6 (H) **5063**
1 unit 12

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.

GERMAN 1 **5090**
1 unit 9,10,11,12

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.

GERMAN 2 **5100**
1 unit 10,11,12

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.

GERMAN 3 **5110**
1 unit 11,12

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.

GERMAN 4 (H) **5111**
1 unit 12

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. The course covers a brief overview of history and civilization. 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).

JAPANESE 1 (SMNW) **5400**
1 unit 9,10,11,12

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

World Language

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 the first quarter. This course is offered only at SM Northwest.

JAPANESE 2 (SMNW) **5402**
1 unit 10,11,12

Prerequisite – Japanese 1

This course is a continuation of the listening, speaking, reading and writing skills begun in Japanese 1. More emphasis is placed on reading and writing with students acquiring greater skill with characters. In order to promote language proficiency, much of this class is taught in Japanese. This course is offered only at SM Northwest.

JAPANESE 3 (SMNW) **5404**
1 unit 11,12

Prerequisite – Japanese 2

Japanese 3 is the continuation of Japanese 2 with more sentence structures, more explanation of grammar and more vocabulary to reinforce oral and aural comprehension in order to develop communication skills. Reading and writing will be equally emphasized. Instruction of all the aspects of the language will be taught in authentic cultural contexts. In order to promote language proficiency, this class is taught mostly in Japanese. This class is only offered at SM Northwest.

JAPANESE 4 (H) (SMNW) **5406**
1 unit 12

Prerequisite – Japanese 3

Japanese 4H is the continuation of Japanese 3 with more sentence structures, more explanation of grammar and more vocabulary to reinforce oral and aural comprehension in order to develop communication skills. Reading and writing will be equally emphasized. Instruction of all the aspects of the language will be taught in authentic cultural contexts. In order to promote language proficiency, this class is taught in Japanese. This course is offered only at SM Northwest.

LATIN 1 (SMNW,SMS) **5120**
1 unit 9,10,11,12

Prerequisite – None

Latin 1 offers a basic understanding of the Latin language and the culture and geography of the ancient Roman world. The roots of western civilization are taught as students learn the rudiments of grammar and vocabulary. Latin offers comparisons and contrasts with English and romance languages. Learning is enhanced through interactive activities, digital media, and role playing. Students read a complete novel in Latin about ordinary people of all social classes living in the shadow of smoking Vesuvius and other parts of the Roman Empire, from chilly Britain to exotic Egypt.

LATIN 2 (SMNW,SMS) **5130**
1 unit 10,11,12

Prerequisite – Latin 1

Latin 2 continues the study started in level 1. Students refine their knowledge of grammar, vocabulary, and English derivatives. Comparison and contrast to English is continued as students increase their knowledge in both languages. Cultural topics include historical figures and their continuing influence in the modern world. The next novel in Latin continues with a Pompeian's travels throughout the Roman Empire.

LATIN 3 (SMNW,SMS) **5135**
1 unit 11,12

Prerequisite – Latin 2

Latin 3 continues the study of common expressions, idioms, and vocabulary in Latin with their connections to English. Reading skills are expanded as students begin the transition to authentic Latin by reading short selections by Roman authors. A study of classical civilization, myths, legends, religion, history, government, social behavior, the arts, and architecture continue to be emphasized.

LATIN 4 (H) (SMNW,SMS) **5145**
1 unit 12

Prerequisite – Latin 3

Latin 4 H offers an advanced study of Latin literature, culture, and history. Authentic prose and poetry by world-class authors are read and analyzed for technique and style. Elements of earlier Latin courses are refined as students concentrate on works of literature in their entirety. Students enrolled in this course may be eligible for JCCC credit (College Now).

LATIN 4 AP (SMNW,SMS) **5150**
1 unit 12

Prerequisite – Latin 3

Latin 4 AP students review the basic structure of the language with further study of literature, culture, and history. Students read an extensive amount of Latin literature in preparation for the advanced placement exam in Virgil and Caesar. 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).

RUSSIAN 1 (SMN) **5426**
1 unit 9,10,11,12

Prerequisite – None

Students are introduced to the basic skills of listening comprehension, speaking, reading, and writing. Students learn the Cyrillic alphabet. Russian cultural study includes history, literature, the arts, and food. This course is offered only at SM North.

World Language

RUSSIAN 2 (SMN)

5428

1 unit

10,11,12

Prerequisite – Russian 1

Russian 2 continues the study of language skills which are important for everyday life. Study of customs will continue, but emphasis will be on career opportunities available to those who speak Russian; therefore, the language skills will focus on practical fundamentals. In order to promote language proficiency, much of this class is taught in Russian. This course is offered only at SM North.

RUSSIAN 3 (SMN)

5430

1 unit

11,12

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.

RUSSIAN 4 (H) (SMN)

5432

1 unit

12

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.

SPANISH 1

5160

1 unit

9,10,11,12

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.

SPANISH 2

5170

1 unit

9,10,11,12

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.

SPANISH 1-2 ACCELERATED

5165

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 Spanish 1 and 2 are taught at an accelerated pace. Upon successful completion of the year-long course, students will enroll in Spanish 3 for the following school year.

SPANISH 3

5180

1 unit

9,10,11,12

Prerequisite – Spanish 2 or Spanish 1-2 Accelerated

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.

SPANISH 4

5190

1 unit

10,11,12

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).

SPANISH 5 AP

5214

1 unit

11,12

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).

SPANISH 6 (H)

5213

1 unit

12

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

World Language

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.

SPANISH FOR HERITAGE SPEAKERS

5161

1 unit

9,10,11,12

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. This course is repeatable for credit.

WORLD LANGUAGE – INDEPENDENT STUDY

5221

1/2 unit

9,10,11,12

Prerequisite – None

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

Specialized Programs

Specialized Programs Course Offerings At-a-Glance

	Units	9	10	11	12	G	P	W	NCAA	R	Cost
AP Seminar (SMS)	1.0			✓	✓			✓			
AP Research (SMS)	1.0				✓	✓	✓	✓			
Cadet Teaching Program	0.5		✓	✓	✓		✓			✓	
Career Experience	0.5			✓	✓		✓			✓	
Career Experience (Horizons)	0.5		✓	✓	✓		✓			✓	
Career Exploration (2 hr block per sem)	2.0		✓	✓	✓		✓			✓	
College Campus Study (one sem)	varies			✓	✓		✓			✓	
Community Service (SMNW)	0.5			✓	✓					✓	
Introduction to Careers	0.5	✓	✓	✓	✓		✓				
Independent Living	1.0	✓	✓	✓	✓		✓			✓	
Interpersonal Skills	0.5	✓	✓	✓	✓		✓			✓	
Jobs for America's Graduates in Kansas (JAG-K)	1.0	✓	✓	✓	✓		✓			✓	
Job Skills Training (1 hr block per sem)	0.5	✓	✓	✓	✓		✓			✓	
Leadership Practicum	1.0	✓	✓	✓	✓					✓	
Leisure and Recreation Skills	1.0	✓	✓	✓	✓		✓			✓	
Life Sustaining and Environmental Interaction Skills	1.0	✓	✓	✓	✓		✓			✓	
Mentor Program	2.0			✓	✓		✓			✓	
Music Appreciation	0.5	✓	✓	✓	✓	✓	✓				
SAT/ACT Preparation	0.5		✓	✓	✓						

Specialized Programs

S.E.E.K. Student Examining & Experiencing Knowledge	0.5	✓	✓	✓	✓		✓			✓	
Social Skills Training	1.0	✓	✓	✓	✓		✓			✓	
Student Success Skills	1.0	✓	✓	✓	✓		✓			✓	
Study Skills	1.0	✓	✓	✓	✓					✓	
Work Study (2 hr block per sem)	1.0			✓	✓		✓			✓	
	Units	9	10	11	12	G	P	W	NCAA	R	Cost

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Specialized Programs

ACT/SAT PREPARATION

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.

provide transportation to the work site. 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 .5 units per semester. Course may be repeated for credit for a maximum of 2 units. ***Students participating in a Career & Technical Education program should check with their teacher & counselor regarding the use of this course versus those in the CTE pathway.

AP SEMINAR SMS

1560

1 unit

11,12

Prerequisite – None

AP Seminar is a year-long course for 11th graders in which students investigate real-world issues from multiple perspectives. Students learn to synthesize information from different sources, develop their own lines of reasoning in research-based essays, and design and deliver oral and visual presentations, both individually and as part of a team. Students successfully completing both AP Seminar and AP Research may use these courses as either ELA3 or ELA4 credit for graduation (not both).

CAREER EXPERIENCE (HORIZONS)

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 3 units per school year. Course may be repeated for credit.

AP RESEARCH SMS

1562

1 unit

12

Prerequisite – AP Seminar

AP Research is a year-long course for 12th graders that allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a year-long research-based investigation to address a research question. Students successfully completing both AP Seminar and AP Research may use these courses as either ELA3 or ELA4 credit for graduation (not both).

CAREER EXPLORATION

0663

2 units (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.

CADET TEACHING PROGRAM

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 and approval from parent, teacher, counselor, and administrator.

COLLEGE CAMPUS STUDY

9320

Credit varies, 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 cost 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

CAREER EXPERIENCE

9940

1/2 unit

11,12

Prerequisite – Administrative approval

This course is offered at each of the comprehensive high schools. 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

Specialized Programs

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.

COMMUNITY SERVICE (SMNW) 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.

INTRODUCTION TO CAREERS 0662

1/2 unit

9,10,11,12

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.

INDEPENDENT LIVING 0637

1 unit

9,10,11,12

Prerequisite – IEP team recommendation

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

INTERPERSONAL SKILLS 9224

1/2 unit

9,10,11,12

Prerequisite – IEP team recommendation

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

JOBS FOR AMERICA'S GRADUATES IN KANSAS (JAG-K) 9030

9, 10, 11, 12

1 unit - Full Year Class

Prerequisite – Teacher or Counselor recommendation

JAG-K is an in-school model serving high school students in a classroom setting. The primary focus is on graduation, career exploration and planning, and development of employability skills with an emphasis on post-secondary education. Students are afforded opportunities to practice their skills outside the classroom through service-learning projects, possible job shadowing, and an exclusive Career Association.

JOB SKILLS TRAINING 0665

1/2 unit (1-hour block per semester)

9,10,11,12

Prerequisite – IEP team recommendation

Enrollment in this course is determined by the Individual Education Plan team. The purpose of this course is to 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.

LEADERSHIP PRACTICUM 9240

1 unit

9,10,11,12

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 0812

1 unit

9,10,11,12

Prerequisite – IEP team recommendation

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

LIFE SUSTAINING AND ENVIRONMENTAL INTERACTION SKILLS 0825

1 unit

9,10,11,12

Prerequisite – IEP team recommendation

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

MENTOR PROGRAM 0882

2 units

11,12

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.

Specialized Programs

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.

MUSIC APPRECIATION **7280**
1/2 unit *9,10,11,12*

Prerequisite – IEP team approval

This course is offered in a virtual learning platform. Students learn the foundational skills for engaging and listening to music from a variety of cultures, understanding the ways music and culture affect each other. Students learn the foundational concepts of rhythm, melody, harmony, form, expression, as well as the types and categories of musical instruments. Students engage with a variety of genres ranging from the Baroque period through modern music on Broadway, in film, and classical. Enrollment in this course requires approval of the IEP team. This course may be applied toward the minimum fine arts graduation requirement.

S.E.E.K. Students Examining and Experiencing Knowledge
1/2 unit, Fall **0147** *9,10,11,12*
1/2 unit, Spring **0148** *9,10,11,12*

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.

SOCIAL SKILLS TRAINING **0818,0819,0820,0821**
1 unit *9,10,11,12*

Prerequisite – IEP team recommendation

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

STUDENT SUCCESS SKILLS **9165**
1 unit *9,10,11,12*

Prerequisite – None

Enrollment in the course is determined by the Student Intervention Team. This course is designed to provide comprehensive study skills instruction. The course will include topics such as Preparation and Organization, Listening and Attention Skills, Teamwork, Managing Stress and Soft Skills taught and applied to content area courses with the goal of creating a self-monitoring student able to problem solve, analyze and apply knowledge across the curriculum.

STUDY SKILLS **9160**
1 unit *9,10,11,12*

Prerequisite – IEP Team recommendation

Enrollment in the course is determined by the Student Intervention Team. This course is designed to provide comprehensive study skills instruction. The course will include topics such as Preparation and Organization, Listening and Attention Skills, Teamwork, Managing Stress and Soft Skills taught and applied to content area courses with the goal of creating a self-monitoring student able to problem solve, analyze and apply knowledge across the curriculum.

WORK STUDY **0666**
1 unit (2-hour block per semester) *11,12*

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 or 180 hours for each 1.0 credit earned. Course is taken on a pass/fail basis for a maximum of 1.0 credit per semester.

Specialized Programs: English Language Learners

Specialized Programs: English Language Learners Course Offerings At-a-Glance

	Units	9	10	11	12	G	P	W	NCAA	R	Cost
ELL Language Arts 1	3.0	✓	✓	✓	✓	✓	✓			✓	
ELL Language Arts 2	2.0	✓	✓	✓	✓	✓	✓			✓	
ELL Language Arts 3	1.0	✓	✓	✓	✓	✓	✓				
ELL Mathematics Extension	0.5	✓	✓	✓	✓	✓	✓			✓	
ELL Study Skills Lab	1.0	✓	✓	✓	✓		✓			✓	

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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.

ELL LANGUAGE ARTS 1 **1792, 1793, 1794**

3 units *9,10,11,12*

Prerequisite – Teacher or counselor recommendation

ELL Language Arts 1 is for English language learners at the beginning level of proficiency who are at the emerging stage of language acquisition (meaning they have minimal access to English language). Students will receive two hours of language support in all four domains (reading, writing, speaking, listening) focused on the emerging and developing performance levels of the English Language Proficiency (ELP) standards, which are aligned to the ELA core standards. The content of this course scaffolds and supports content standards of the ELA 1 course. Students may be enrolled in one additional hour of reading instruction to support skill development if needed. This course meets the graduation requirement for English credit. This course may be repeated if necessary.

ELL LANGUAGE ARTS 2 **1796, 1797**

2 units *9,10,11,12*

Prerequisite – Teacher or counselor recommendation

ELL Language Arts 2 is for English language learners who are at the developing stage of language acquisition (meaning they are now capable of producing simple language structures with some errors). Students will receive two hours of language support in all four domains (reading, writing, speaking, listening) focused on the developing and approaching performance levels of the English Language Proficiency (ELP) standards, which are aligned to the ELA core standards. The content of this course scaffolds and supports content standards of the ELA coursework. This course meets the graduation requirement for English credit. Students may also be enrolled in an ELA course if appropriate. This course may be repeated if necessary.

ELL LANGUAGE ARTS 3 **1799**

1 unit *9,10,11,12*

Prerequisite – Teacher or counselor recommendation

ELL Language Arts 3 is for English language learners who are at the approaching stage of language acquisition (meaning they are at the intermediate fluency level). Students will receive language support in all four domains (reading, writing, speaking, listening) focused on the approaching and proficient performance levels of the English Language Proficiency (ELP) standards, which are aligned to the ELA core standards. The content of this course scaffolds and supports content standards of the ELA coursework. Students must also be enrolled in an ELA course. This course may apply towards the graduation requirement for English credit.

ELL MATHEMATICS EXTENSION **2012**

1/2 unit *9,10,11,12*

Prerequisite – Teacher or counselor recommendation, ELL Students

This course is designed for ELL students who need foundational math skill development in order to be successful in core math classes. Course instruction focuses on improving student understanding of foundational math concepts. This course may be repeated for credit. One-half unit of credit may be applied toward the minimum graduation requirements in mathematics. Students may be enrolled in a core math class in addition to this course, if appropriate.

ELL STUDY SKILLS LAB **1802**

1 unit *9,10,11,12*

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.

Specialized Programs: eSchool Courses

Specialized Programs: eSchool Course Offerings At-a-Glance

	Units	9	10	11	12	G	P	W	NCAA	R	Cost
American Government	0.5				✓	✓					
Art History	0.5	✓	✓	✓	✓	✓					
ELA 3	1.0			✓		✓	✓				
ELA 4	1.0				✓	✓	✓				
Financial Literacy	0.5		✓	✓	✓	✓					
Fitness for Life 1	0.5	✓	✓	✓	✓	✓					
Fitness for Life 2	0.5	✓	✓	✓	✓	✓	✓				
Health Education 1	0.5	✓	✓	✓	✓	✓					
Psychology 1	0.5		✓	✓	✓	✓					
United States History	1.0			✓	✓	✓					

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Specialized Programs: eSchool Courses

The Shawnee Mission School District offers a limited number of virtual (online) courses, which are delivered outside the traditional school day (fee involved). Courses are led by certified instructors through the Edgenuity online platform. Specific information regarding the courses offered is listed below. **Courses offered through the eSchool program do not meet NCAA eligibility requirements.**

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: www.smsd.org/academics/eschool. 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 under the direct supervision of eSchool teachers and administration.** Specific dates, times, and locations for these required activities can be found on the eSchool website: www.smsd.org/academics/eschool.

AMERICAN GOVERNMENT **ES3990**

1/2 unit

12

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.)

*This course does not meet NCAA eligibility requirements and is not repeatable for credit.

ART HISTORY **ES7615**

1/2 unit

9,10,11,12

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 and is not repeatable for credit.

ELA 3 **ES1150**

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.

*This course does not meet NCAA eligibility requirements and is not repeatable for credit.

ELA 4 **ES1160**

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.

*This course does not meet NCAA eligibility requirements and is not repeatable for credit.

FINANCIAL LITERACY **ES6387**

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 skill that enables students to become more responsible consumers for lifetime success. (See graduation requirements.)

*This course does not meet NCAA eligibility requirements and is not repeatable for credit.

FITNESS FOR LIFE 1 **ES8165**

1/2 unit

9,10,11,12

Prerequisite – None

Exploring fitness topics such as safe exercise, injury prevention, and stress management, this course equips 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 and is not repeatable for credit.

FITNESS FOR LIFE 2 **ES8166**

1/2 unit

9,10,11,12

Prerequisite – Fitness For Life 1

This course provides students with more opportunities to explore and apply fitness topics such as safe exercise and injury prevention, nutrition and weight management, consumer product evaluation, impact of sports and exercise

Specialized Programs: eSchool Courses

on fitness, leadership skills, and stress management. This course equips students to assess individual fitness levels and refine their fitness plans to meet their individual fitness goals. Students will incorporate activities into their fitness plan to support cardiovascular health, muscular strength; endurance, and flexibility. There is an emphasis on the importance of exercise and nutrition to promote life-long fitness.

*This course does not meet NCAA eligibility requirements and is not repeatable for credit.

HEALTH EDUCATION 1

1/2 unit,

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.)

*This course does not meet NCAA eligibility requirements and is not repeatable for credit.

ES9220

9,10,11,12

PSYCHOLOGY 1

1/2 unit

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.

*This course does not meet NCAA eligibility requirements and is not repeatable for credit.

ES3340

10,11,12

UNITED STATES HISTORY

1 unit

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.

*This course does not meet NCAA eligibility requirements and is not repeatable for credit.

ES3160

11,12

Specialized Programs: NJROTC / NNDCC

Specialized Programs: NJROTC / NNDCC Course Offerings At-a-Glance

	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Citizenship/Leadership Development NS 1	1.0	✓	✓	✓	✓						
Citizenship/Leadership Development NS 2	1.0		✓	✓	✓		✓				
Citizenship/Leadership Development NS 3	1.0			✓	✓		✓				
Citizenship/Leadership Development NS 4	1.0				✓		✓				
NJROTC Independent Study	0.5		✓	✓	✓		✓				

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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 2020-2021 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 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 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.

CITIZENSHIP/LEADERSHIP DEVELOPMENT NS 3 9060 1 unit 11,12

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

Specialized Programs: NJROTC / NNDCC

leadership role in the program. Students are promoted to high level positions of leadership and responsibility.

CITIZENSHIP/LEADERSHIP DEVELOPMENT NS 4 9061

1 unit 12

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

9065

1/2 unit

10,11,12

Prerequisite – Successful completion of one unit within the Naval Science program

Cadets will be introduced to the value of citizenship, service to community and country, personal responsibility and a sense of accomplishment. The importance of the Core Values of honor, courage and commitment, as well as qualities such as selflessness, cooperation, teamwork and self-discipline. Cadets will also have the opportunity to demonstrate the leadership qualities they have learned as they advance in the program.

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 Planning Guide 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 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 learn and practice advanced skills in biotechnology in the areas of DNA/proteomics, pharmacology, agriculture, and bioinformatics. Advanced laboratory experience including original research design and implementation, and exposure to off-site experiences in area research labs.

CULINARY ARTS AND HOSPITALITY

Center for Academic Achievement

Students prepare for the multi-faceted hospitality industry in the award-winning Broadmoor Bistro, a restaurant and hospitality operation directed and executed by students in either the culinary arts or commercial baking program.

ENGINEERING / PROJECT LEAD THE WAY

Center for Academic Achievement

PLTW® engineering courses introduce 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 & 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

Career and Technical Campus

Project Blue Eagle concentrates on exposing the student to four career paths – law enforcement, firefighting, emergency medical services, and the legal profession. Courses introduce students to basic law, the history of each of the four professional areas, an explanation of how each professional area works, the educational 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

Medical Health Science courses are 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 healthcare field.

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

Animation and Game Design Course Offerings At-a-Glance

	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Contemporary Communications in Animation and Interactive Media (CAA)	0.5			✓	✓	✓	✓			✓	
2D Animation and Motion Graphics 1 (CAA) (2 hr block per sem)	1.0		✓	✓	✓	✓	✓				
2D Animation and Motion Graphics 2 (CAA) (2 hr block per sem)	1.0		✓	✓	✓	✓	✓			✓	
3D Modeling and Animation 1 (CAA) (2 hr block per sem)	1.0		✓	✓	✓	✓					
3D Modeling and Animation 2 (CAA) (2 hr block per sem)	1.0		✓	✓	✓	✓	✓			✓	
Game Design and Development 1 (CAA) (2 hr block per sem)	1.0		✓	✓	✓	✓					
Game Design and Development 2 (CAA) (2 hr block per sem)	1.0			✓	✓	✓	✓			✓	

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Animation and Game Design: A Signature Program at CAA

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. District transportation is provided from the students' home high schools to the Center for Academic Achievement and back to the home high school.

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

*This course does not meet NCAA eligibility requirements..

SMSD Career Pathways	
Pathway: Information Technology	Strand: Web & Digital Communications
Intro Level	Computer Dimensions 2 (taken in middle school)
Technical Level	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)
Application Level	3D Modeling & Animation 2 (1.0)
	Digital Design Studio, Advanced (1.0)
	Editorial Leadership, Project Management (1.0)

2D ANIMATION AND MOTION GRAPHICS 1 (CAA) 6071

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

Prerequisite – None

This course emphasizes the design and development of visual creativity. Students will develop digitally generated 2D animations and motion graphics using industry-standard graphics software. Projects and assignments will cover the principles of animation, basic elements of design, storyboarding, animatics, sound development, and rendering. Credit may be applied toward the minimum fine arts graduation requirement. Course may qualify for JCCC advanced standing credit.

2D ANIMATION AND MOTION GRAPHICS 2 (CAA) 6072

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

Prerequisite – 2D Animation and Motion Graphics 1

In this second 2D animation and motion graphics course, students will work within a creative outline to develop animations, motion graphics and visualizations that will advance their knowledge and skills acquired in the first 2D animation and motion graphics course. This project-driven course will emphasize the creative process from concept and storyboarding to creating the animatic, pre-visualization, sound design and final rendering. 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.

3D MODELING AND ANIMATION 1 (CAA) 6074

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

Prerequisite – None

3D animation has a breadth of industrial applications including architecture, engineering and entertainment. This course introduces students to the tools and skills needed to create 3D digital animations and visualizations. Students will model objects, create environments, realistic textures and particle systems. Students will learn the principles of animation and use those principles to animate characters and objects within an environment. Credit may be applied toward the minimum fine arts graduation requirement. Course may qualify for JCCC advanced standing credit.

CONTEMPORARY COMMUNICATIONS IN ANIMATION AND INTERACTIVE MEDIA (CAA) 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

Animation and Game Design:

A Signature Program at CAA

3D MODELING AND ANIMATION 2 (CAA) 6075

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

Prerequisite – 3D Modeling and Animation 1

In this project-driven course students will study advanced applications of 3D animation and visualization. Students will develop projects to enhance their knowledge of techniques acquired in 3D Animation 1. These topics include 3D modeling, advanced lighting, camera work, materials, animation and rendering to design and create authentic projects which may include photo-realistic images, visualizations, animations and creating 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.

GAME DESIGN AND DEVELOPMENT 1 (CAA) 6032

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

Prerequisite – None

In this introductory game development course, students will create 2D and 3D computer games and visualizations. Using creativity and problem-solving skills, students will design,

program, test, and debug computer games. Students will explore the history of game development, game genres, programming logic and languages and game design principles. 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) 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.

Biotechnology:

A Signature Program at CAA

Biotechnology Course Offerings At-a-Glance

	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Agriculture and Pharmaceuticals (H) (CAA) (2 hr block per sem)	1.0		✓	✓	✓	✓	✓	✓			\$30
Biotechnology, Introduction to	0.5		✓	✓	✓	✓	✓				
Biotechnology 1 / SOP (CAA) (2 hr block per sem)	1.0		✓	✓	✓	✓	✓				\$30
Biotech Research and Professional Learning Experience (H) (CAA)	0.5		✓	✓	✓		✓	✓		✓	\$30
Contemporary Communications in Biotechnology (CAA)	0.5			✓	✓	✓	✓			✓	
DNA and Protein Diagnostics (H) (CAA) (2 hr block per sem)	1.0		✓	✓	✓	✓	✓	✓			\$30
Plant and Soil Science (CAA) (2 hr block per sem)	1.0		✓	✓	✓	✓	✓				

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Biotechnology:

A Signature Program at CAA

The SMSD Biotechnology Signature Program comprehensively spans introductory level skills through advanced technical skills and understanding of molecular biology. 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 may enroll in the advanced biotechnology course sequence at the Center for Academic Achievement during their 9th, 10th, 11th and/or 12th grade year. The various biotechnology courses are described in the lower section for this program. **District transportation is provided from the students' home high schools to the Center for Academic Achievement and back to the home high school.**

Students enroll in Biotechnology 1 during their 9th, 10th, 11th, or 12th grade year. Students gain authentic laboratory experience every day. Each student will practice the safe use of laboratory equipment and techniques currently utilized in both academic research labs and the biotechnology industry. Biotechnology 1 focuses on standard lab operating procedures.

Following successful completion of Biotechnology 1, students follow their passion into courses on DNA/Protein Diagnostics, Agriculture/Pharmaceutical, or Biotech Research/Professional Learning Experience. These courses may be taken in any order after Biotechnology 1.

Students who complete the Biotechnology Signature Program curriculum (Introduction to Biotechnology, Biotechnology 1, Recombinant DNA and Protein Diagnostics, and Biotech in Agriculture and Pharmaceuticals will receive a designation on their transcript as a graduate with an emphasis in biotechnology.

Students have the opportunity to earn industry credentials from OSHA and the Bioscience Core Skills Institute credentialing in five categories:

- Small Volume Metrology
- Documentation and SOP
- Safety-Hazard Assessment
- Scientific Math
- Aseptic technique

SMSD Career Pathways	
Pathway: Biochemistry/Biotechnology	
Intro Level	Intro to Biotechnology (0.5)
Technical Level	Biotechnology 1 (1.0)
Application Level	DNA and Protein Diagnostics (1.0)
	Agriculture and Pharmaceuticals (1.0)
	Plant & Soil Science (1.0)
	Biotech Research and Professional Learning Experience Honors (1.0)

AGRICULTURE AND PHARMACEUTICAL (H) (CAA) 4145

1 unit science elective 10, 11, 12

(2-hour block per semester)

Prerequisite – Successful completion of Biotech 1; Completion or concurrent enrollment in Chemistry recommended

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. Course cost is \$30.00.

BIOTECHNOLOGY, INTRODUCTION TO 4154

1/2 unit science elective 10, 11, 12

Prerequisite – Biology

This course is an introduction to biotechnology, including career exploration, history and applications of biotechnology technology, molecular biology, and bioethics. Topics include cloning, DNA, antibodies, gene therapy, plant biotechnology, the human genome project, DNA fingerprinting, genetic testing, diverse products made through biotechnology, and the ethical implications of this technology. The course is intended for those interested in pursuing a career in an industrial, academic, or biomedical research laboratory. Intro to Biotechnology can be taken concurrently with Biotechnology 1.

This course is taught at all five high schools.

Biotechnology: A Signature Program at CAA

BIOTECHNOLOGY 1 / SOP (CAA) (Standard Operating Procedure)

4133

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

Prerequisite – Biology 1 with “C” or better. Introduction to Biotechnology recommended but not required; 2nd semester of Grade 9 with teacher recommendation

This course is an introduction to biotechnology, including career exploration, history and applications of biotechnology technology, molecular biology, and bioethics. Topics include cloning, DNA, antibodies, gene therapy, plant biotechnology, the human genome project, DNA fingerprinting, genetic testing, diverse products made through biotechnology, and the ethical implications of this technology. The course is intended for those interested in pursuing a career in an industrial, academic, or biomedical research laboratory. Students can earn OSHA-10 and Bioscience Core Skills Institute credentials. Course cost is \$30.00. Biotechnology 1 can be taken concurrently with Intro to Biotechnology.

BIOTECH RESEARCH AND PROFESSIONAL LEARNING EXPERIENCE (H) (CAA)

4147

1 unit per semester

10,11,12

Prerequisite – Biotechnology 1

Students will gain experience and understanding of all aspects of the industry through research, internship, or job shadow. Students will gain industry- related skills in planning, management, finance, technology, labor issues, community involvement, safety, and personal work habits. This course may be repeated for credit. Course cost is \$30.00.

CONTEMPORARY COMMUNICATIONS IN BIOTECHNOLOGY (CAA)

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 CAA. Students develop and apply skills in personal communication including critical thinking, speaking, listening, and written communications linked to the Signature Programs 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.

*This course does not meet NCAA eligibility requirements.

DNA AND PROTEIN DIAGNOSTICS (H) (CAA)

4143

1 unit science elective

10, 11,12

(2-hour block per semester)

Prerequisite – Biotechnology 1; Completion or concurrent enrollment in Chemistry recommended

Students 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. Course cost is \$30.00.

PLANT AND SOIL SCIENCE

4320

1 unit science elective

10, 11,12

(2-hour block per semester)

Prerequisite – Biology

Plant and Soil Science is an applied-knowledge course focusing on the science and management of plants and soils, with special attention given to current agricultural practices that support the healthy and sustainable cultivation of major crops.

Culinary Arts and Hospitality: A Signature Program at CAA

Culinary Arts and Hospitality Course Offerings At-a-Glance

	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Commercial Baking 1 (CAA) (2 hr block, full year)	2.0		✓	✓	✓	✓					\$50
Commercial Baking 2 (CAA) (2 hr block, full year)	2.0			✓	✓	✓	✓			✓	\$50
Contemporary Communications in Culinary Arts (CAA)	0.5			✓	✓	✓	✓				
Culinary Arts 1 (CAA) (2 hr block, full year)	2.0		✓	✓	✓	✓					\$50
Culinary Arts 2 (CAA) (2 hr block, full year)	2.0			✓	✓	✓	✓			✓	\$50
Catering Management & Event Planning 1 (CAA) (Full year)*	1.0		✓	✓	✓	✓				✓	
Introduction to Restaurant Management (CAA) (Full year, 10hrs/week)	1.5		✓	✓	✓					✓	
Table Service Internship (CAA) (1 semester, 9hrs/week)	0.5		✓	✓	✓						
Culinary Arts / Commercial Baking Independent Study (CAA) (2 hr block per sem)	1.0				✓		✓			✓	

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

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Culinary Arts and Hospitality: A Signature Program at CAA

Culinary Arts Signature Program students prepare for the multi-faceted hospitality career industry in the award-winning Broadmoor Bistro, a restaurant and hospitality operation directed and executed by students in either the culinary arts or commercial baking program. Students must wear appropriate professional attire and may be required to purchase pants and shoes.

***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.

SMSD Career Pathways	
Pathway: Restaurant & Event Management	
Intro Level	Intro to Family & Consumer Sciences (taken in middle school)
	Intro to Business (0.5)
	Career & Life Planning (0.5)
Technical Level	Focus on Foods (0.5)
	Nutrition & Wellness (0.5)
	Entrepreneurship (0.5)
	Marketing Principles (1.0)
	Advanced Foods (0.5)
	Culinary Arts 1 (2.0)
	Commercial Baking 1 (2.0)
	Catering Management & Event Planning (2.0)
Application Level	Table Service Internship (0.5)
	Intro to Restaurant Management (1.5)
	Culinary Arts 2 (2.0)
	Commercial Baking 2 (2.0)
	Applied Business Development (1.0)

COMMERCIAL BAKING 1 (CAA)

6408

2 unit (2-hour block, full year)

10,11,12

Prerequisite – None

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 \$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.

COMMERCIAL BAKING 2 (CAA)

6409

2 unit (2-hour block, full year)

11,12

Prerequisite – Commercial Baking 1 or Culinary Arts 1

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 \$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. This course may be repeated for credit.

CONTEMPORARY COMMUNICATIONS IN CULINARY ARTS (CAA)

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

Culinary Arts and Hospitality:

A Signature Program at CAA

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.

*This course does not meet NCAA eligibility requirements.

CULINARY ARTS 1 (CAA) 6406
2 units (2-hour block, full year) 10,11,12
Prerequisite – None

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 \$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.

CULINARY ARTS 2 (CAA) 6407
2 units (2-hour block, full year) 11,12
Prerequisite – Culinary Arts 1 or Commercial Baking 1

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 and 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 \$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. This course may be repeated for credit.

CATERING MANAGEMENT AND EVENT PLANNING 1 (CAA) 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. This course may be repeated for credit. District transportation is not provided to the Center for Academic Achievement for evening classes. This course will require students to access on-line 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) 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 as entrepreneurial activities. The course is held two evenings 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.

Culinary Arts and Hospitality: A Signature Program at CAA

TABLE SERVICE INTERNSHIP (CAA)

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 the Center for Academic Achievement for evening classes. Event gratuity is shared with all student participants.

CULINARY ARTS / COMMERCIAL BAKING, INDEPENDENT STUDY (CAA)

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

Engineering (PLTW®) Course Offerings At-a-Glance

	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Introduction to Engineering and Design (at each high school)	1.0	✓	✓	✓	✓	✓					
Principles of Engineering (H) (at each high school)	1.0		✓	✓	✓			✓			
Aerospace Engineering (H) (CAA) (2 hr block per sem)	1.0		✓	✓	✓			✓			
Advanced Concepts in Computer Aided Design (H) (CAA) (2 hr block per sem)	1.0			✓	✓			✓			
Civil Engineering and Architecture (H) (CAA) (2 hr block per sem)	1.0		✓	✓	✓			✓			
Contemporary Communications in Engineering (CAA)	0.5			✓	✓	✓	✓			✓	
Cybersecurity (H) (CAA) (2 hr block per sem)	1.0		✓	✓	✓			✓			
Digital Electronics (H) (CAA) (2 hr block per sem)	1.0		✓	✓	✓			✓			
Engineering Design and Development (H) (CAA) (2 hr block per sem)	1.0				✓			✓			
Environmental Sustainability (at each high school)	0.5			✓	✓						
Robotics	1.0		✓	✓	✓					✓	

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Engineering (PLTW®): A Signature Program at CAA

Project Lead The Way® Introduction to Engineering Design and Principles of Engineering are offered at each of the five Shawnee Mission high schools. Specialization courses, outlined on the following pages, 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.

PLTW® introduces students to the scope and rigor of various engineering disciplines. 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 industry and 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® participates with a Partnership Team composed 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 Career Pathways	
Pathway: Engineering & Applied Mathematics	Strand: Engineering & Applied Mathematics
Intro Level	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)
Technical Level	Introduction to Engineering Design (1.0)
	Principles of Engineering H (1.0)
	Robotics (1.0)
Application Level	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)

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

Prerequisite - None

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software and using an engineering notebook to document their work. Credit may be applied toward the minimum fine arts graduation requirement. This course is taught at all five high schools.

Engineering (PLTW®): A Signature Program at CAA

PRINCIPLES OF ENGINEERING (H)

6784

1 unit

10,11,12

Prerequisite – Introduction to Engineering Design, completion of Algebra 1 or Integrated Alg/Geom 1 recommended

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. Projects are integrated into all units of study. This course is taught at all five high schools.

AEROSPACE ENGINEERING (H) (CAA)

6782

1 unit (2-hour block per semester)

10,11,12

Prerequisite – Introduction to Engineering Design recommended

Aerospace Engineering ignites students' learning in the fundamentals of atmospheric and space flight. Aerospace Engineering is one of the specialization courses in the PLTW Engineering program. The course deepens the skills and knowledge of an engineering student within the context of atmospheric and space flight. Students explore the fundamentals of flight in air and space as they bring the concepts to life by designing and testing components related to flight such as an airfoil, propulsion system, and a rocket. They learn orbital mechanics concepts and apply these by creating models using industry-standard software. They also apply aerospace concepts to alternative applications such as a wind turbine and parachute. Students simulate a progression of operations to explore a planet, including creating a map of the terrain with a model satellite and using the map to execute a mission using an autonomous robot.

ADVANCED CONCEPTS IN

COMPUTER AIDED DESIGN (H) (CAD) (CAA)

6762

1 unit (2-hour block per semester)

11,12

Prerequisite – Introduction to Engineering Design and Civil Engineering and Architecture recommended

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.

CIVIL ENGINEERING AND ARCHITECTURE (H) (CAA) 6780

1 unit (2-hour block per semester)

10,11,12

Prerequisite – Introduction to Engineering Design recommended

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

CONTEMPORARY COMMUNICATIONS IN ENGINEERING (CAA)

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. *This course does not meet NCAA eligibility requirements.

CYBERSECURITY (H) (CAA)

6632

1 unit (2-hour block per semester)

10,11,12

Prerequisite – Computer Science Principles or Intro to Computer Programming or Digital Electronics recommended

Students identify cybersecurity threats and protect against them; detect intrusions and respond to attacks; begin to examine their own digital footprint and better defend their own personal data; and learn how organizations protect themselves in today's world. Whether seeking a career in the growing field of cybersecurity or learning to defend a company's data, students in Cybersecurity establish an ethical code of conduct while learning to defend data in today's complex cyberworld. This course, offered as part of the PLTW® pathway, brings together the strands of computer science and engineering. Students have the option to continue their study independently pursuing CompTIA Security+ certification with instructor support.

Engineering (PLTW®): A Signature Program at CAA

DIGITAL ELECTRONICS (H) (CAA)

6785

1 unit (2-hour block per semester)

10,11,12

Prerequisite – Introduction to Engineering Design recommended

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.

ENGINEERING DESIGN AND DEVELOPMENT (H) (CAA)

6783

1 unit (2-hour block per semester)

12

Prerequisite - At least two PLTW® courses recommended

The knowledge and skills students acquire throughout Project Lead the Way® Engineering come together in Engineering Design and Development as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers and stakeholders. Students apply the professional skills they have developed to document a design process to standards, completing Engineering Design and Development ready to take on any post-secondary program or career.

ENVIRONMENTAL SUSTAINABILITY

4140

1/2 unit at each high school

11,12

Prerequisite – Introduction to Engineering Design recommended

Environmental Sustainability (ES) is a high school-level specialization course in PLTW Engineering. In ES, students investigate and design solutions to solve real-world challenges related to clean drinking water, a stable food supply, and renewable energy. Students are introduced to environmental issues and use the engineering design process to research and design potential solutions. Utilizing the activity-, project-, problem-based (APB) teaching and learning pedagogy, students transition from completing structured activities to solving open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills.

ROBOTICS

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. This course is repeatable for credit. This course is offered at all five high schools.

International Baccalaureate:

A Signature Program at SME and SMNW

International Baccalaureate Course Offerings At-a-Glance

IB Language A & B	Units	9	10	11	12	G	P	W	NCAA	R	Cost
IB English HL 1 (H)	1.0			✓			✓	✓	✓		
IB English HL 2 (H)	1.0				✓		✓	✓	✓		
IB Latin 3 SL	1.0			✓			✓		✓		
IB Latin 4 SL (H)	1.0				✓		✓	✓	✓		
IV German 3 SL	1.0			✓	✓		✓	✓	✓		
IB German 4 SL (H)	1.0				✓		✓	✓	✓		
IB Japanese 3 SL	1.0			✓	✓		✓				
IB Japanese 4 SL (H)	1.0				✓		✓	✓			
IB French 3	1.0			✓			✓				
IB French 4 SL	1.0			✓	✓		✓		✓		
IB French 5 (H)	1.0			✓	✓		✓	✓	✓		
IB French 6 (H)	1.0				✓		✓	✓	✓		
IB Individuals and Society	Units	9	10	11	12	G	P	W	NCAA	R	Cost
IB History HL 1 (H) - European	1.0			✓			✓	✓	✓		
IB History HL 2 (H) - European	1.0				✓		✓	✓			
IB History of the Americas HL 1 (H)	1.0			✓			✓	✓	✓		
IB History of the Americas HL 2 (H) SME	0.5				✓		✓	✓			
IB History of the Americas HL 2 (H) SMNW	1.0				✓		✓	✓			
IB Psychology SL (H)	1.0			✓	✓			✓	✓		
IB Psychology HL 1 (H)	1.0			✓				✓	✓		
IB Psychology HL 2 (H)	1.0			✓	✓		✓	✓			
IB American Government for IB Students (H) SME	0.5				✓		✓	✓	✓		

International Baccalaureate:

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IB Experimental Sciences	Units	9	10	11	12	G	P	W	NCAA	R	Cost
IB Astronomy SL SMNW	0.5			✓	✓		✓				
IB Biology HL 1 (H)	1.0			✓			✓	✓	✓		
IB Biology HL 2 (H)	1.0				✓		✓	✓			
IB Chemistry SL 1 (H)	1.0			✓			✓	✓	✓		
IB Chemistry SL 2 (H)	1.0				✓		✓	✓			
IB Computer Science SL 1 (H)	1.0			✓	✓	✓		✓			
IB Computer Science SL2 (H)	1.0				✓	✓	✓	✓			
IB Environmental Systems and Societies SL	1.0			✓	✓		✓				
IB Physics 1 SL (H)	1.0			✓			✓	✓	✓		
IB Physics 2 SL (H)	1.0				✓		✓	✓			
IB Mathematics	Units	9	10	11	12	G	P	W	NCAA	R	Cost
IB Math Applications and Interpretations SL 1	1.0			✓			✓		✓		
IB Math Studies SL 2	1.0				✓		✓	✓	✓		
IB Math Analysis and Approaches SL 1 (H)	1.0			✓	✓		✓	✓	✓		
IB Math SL 2 (H)	1.0				✓		✓	✓			
IB Math Analysis and Approaches HL 1 (H)	1.0			✓			✓	✓			
IB Math HL 2 (H)	1.0				✓		✓	✓			
IB The Arts & Electives	Units	9	10	11	12	G	P	W	NCAA	R	Cost
IB Visual Arts SL 1 (H)	1.0			✓			✓	✓			
IB Visual Arts SL (H)	1.0			✓			✓	✓			
IB Visual Arts SL 2 (H)	1.0				✓		✓	✓			
IB Visual Arts HL 1 (H)	1.0			✓			✓	✓			
IB Visual Arts HL 2 (H)	1.0				✓		✓	✓			
IB Dance SL 1 (SME)	1.0			✓			✓				

International Baccalaureate:

A Signature Program at SME and SMNW

IB Dance SL 2 (SME)	1.0				✓		✓				
IB Music SL (H)	1.0			✓	✓		✓	✓			
IB Music HL 1 (H)	1.0				✓		✓	✓			
IB Music HL 2 (H)	1.0					✓	✓	✓			
IB Film Studies SL	1.0			✓	✓	✓					
IB Film Studies HL 1	1.0			✓							
IB Film Studies HL 2	1.0				✓	✓	✓				
IB Philosophy (H) SME	1.0			✓	✓			✓			
IB Additional Requirements	Units	9	10	11	12	G	P	W	NCAA	R	Cost
IB Theory of Knowledge	0.5			✓			✓		✓		
IB Theory of Knowledge	0.5				✓		✓		✓		
Extended Essay				✓	✓						
CAS				✓	✓						

Column Header Key

9, 10, 11, 12 = Availability by Grade Level

G = Meets a Graduation Requirement

P = Prerequisite

W = Weighted in GPA Calculation

NCAA = Meets NCAA Eligibility Requirements

R = Can Be Repeated for Credit

International Baccalaureate:

A Signature Program at SME 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.

The current fee for course testing is \$119.00 (2019-2020). Fees are subject to change based upon the fee structure established by the International Baccalaureate Organization. The candidate subject fee is paid for each assessed subject taken by an individual student. There is no fee for the reflective project. An additional late fee will be incurred for a DP subject registration, reflective project registration or amendment for a subject, level or language after the first registration deadline. The late fee increases again after the second deadline.

For further information, please visit <http://signature.smsd.org/ib/pages/default.aspx>.

IB Course Selection
 SL = Standard Level
 HL = High Level
 (H) = Honors Credit
 Courses offered at all three high schools except when noted. E=East; 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: Literature

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 1/HL 1 (H)	11,12
5069	IB French 6 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
5225	IB Spanish 5 1/HL 1 (H) SME	11,12
5226	IB Spanish 5 1/HL 1 (H) SME	12

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) SME (1.0) SMNW	12
3191	Honors American Gov. for IB students (.5)	12

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Group 4: Experimental Science

Course#	Course Title	Grade
4260	IB Astronomy SMNW	12
4152	IB Biology HL 1 (H)	11
4153	IB Biology HL 2 (H)	12
4172	IB Chemistry SL 1 (H)	11
4173	IB Chemistry SL 2 (H)	12
4218	IB Physics SL 1 (H)	11
2092	IB Computer Science SL1 (H) NW	11,12
2098	IB Computer Science SL2 (H) NW	12
4219	IB Physics SL 2 (H)	12
3362	IB Psychology SL (H) NW	11,12
3363	IB Psychology HL 1 (H)	11
3364	IB Psychology HL 2 (H)	12

Group 5: Mathematics

Course#	Course Title	Grade
2073	IB Math Applications and Interpretation SL 1	11
2074	IB Math Studies SL 2	12
2071	IB Math Analysis and Approaches SL 1 (H)	11,12
2072	IB Math SL 2 (H)	12
2075	IB Math Analysis and Approaches 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 NW	11,12
7287	IB Film Studies HL (H) NW	11
7288	IB Film Studies HL 2 (H) NW	12
7810	IB Philosophy	11,12

Additional Requirements of the IB Diploma

Course#	Course Title	Grade
3602, 3603	IB Theory of Knowledge	11
3604	IB Theory of Knowledge	12
	Extended Essay	11,12
	CAS	11,12

GROUP 1, LANGUAGE A

IB ENGLISH HL 1 (H) 1155

1 unit 11

Prerequisite – English 10 (H) is recommended

IB ENGLISH HL 2 (H) 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

IB LATIN 3 SL 5151

1 unit 11

Prerequisite – Latin 2

IB LATIN 4 SL (H) 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

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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).

IB GERMAN 3 SL **5118**
1 unit 11,12

Prerequisite – German 2

IB GERMAN 4 SL (H) **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.

IB JAPANESE 3 SL **5404**
1 unit 11,12

Prerequisite – Japanese 2

IB JAPANESE 4 SL (H) **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.

IB FRENCH 3 **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.

IB FRENCH 4 SL **5067**
1 unit 11,12

Prerequisite – French 3

IB FRENCH 5 (H) **5068**
1 unit 11,12

Prerequisite – French 4 SL

IB FRENCH 6 (H) **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.

IB SPANISH 3 **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.

IB SPANISH 4 SL **5222**
1 unit 11,12

Prerequisite – Spanish 3

IB SPANISH 5 SL (H) **5223**
1 unit 11,12

Prerequisite – Spanish 4 SL

IB SPANISH 6 SL (H) **5224**
1 unit 12

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

IB HISTORY HL 1 (H) – EUROPEAN **3393**
1 unit 11

Prerequisite – US History

IB HISTORY HL 2 (H) – EUROPEAN **3394**
1 unit 12

Prerequisite – IB History HL 1 (H)

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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.

IB HISTORY OF THE AMERICAS HL 1 (H) **3168**
1 unit 11

Prerequisite – European History AP is strongly recommended
Over the two years, students will cover all of United States history, and will also focus on the 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.

IB HISTORY OF THE AMERICAS HL 2 (H) **3169 SME**
1/2 unit 12

3169 SMNW
1 unit 12

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 the U.S. history graduation requirements. At the conclusion of the year, students are prepared for the higher level Group 3 IB examinations.

IB PSYCHOLOGY SL (H) **3362**
1 unit 11,12

Prerequisite – None
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.

IB PSYCHOLOGY HL 1 (H) **3363**
1 unit 11

Prerequisite – None

IB PSYCHOLOGY HL 2 (H) **3364**
1 unit 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.

IB HONORS AMERICAN GOVERNMENT
for IB Students (H) **3191 SME**

1/2 unit 12

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

IB ASTRONOMY SL **4260 SMNW**
1 unit 11,12

Prerequisite – Algebra 2

Students will explore the scientific, historic and social aspects of the human endeavor to understand the universe and our place in it. Students will trace the major historical milestones in developing a model of the solar system, current scientific tools employed in the study of the solar system, and the physical characteristics of major bodies in the solar system. Expanding to larger scales, the course will explore the vast expanse of the universe from individual stars to clusters of galaxies while investigating such topics as stellar classification, stellar evolution and cosmology. The major tool of astronomy, the electromagnetic spectrum and its detection, will also be examined and utilized. Experimental, computer modeling and data analysis skills will be developed and emphasized.

IB BIOLOGY HL 1(H) **4152**
1 unit 11

Prerequisite – Chemistry 1

IB BIOLOGY HL 2(H) **4153**
1 unit 12

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.

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IB CHEMISTRY SL 1 (H)

1 unit

Prerequisite – Algebra 2 and Biology 1

IB CHEMISTRY SL 2 (H)

1 unit

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.

IB COMPUTER SCIENCE SL1 (H)

1 unit

Prerequisite – None

IB COMPUTER SCIENCE SL2 (H)

1 unit

Prerequisite – IB Computer Science SL1 (H)

This two year course sequence will focus on software development, system fundamentals, computer organization, networks, computational thinking and object oriented programming. This course emphasizes the need for both a theoretical and practical approach to computer science. The course will enable students to apply and use a body of knowledge, methods, and techniques that characterize computer science. Students will demonstrate initiative in applying thinking skills to identify and resolve complex problems; engender an awareness of the need for, and value of, effective collaboration and communication in resolving complex problems; develop logical and critical thinking as well as experimental, investigative and problem-solving skills; develop students' ability to communicate confidently and effectively and raise awareness of the moral, ethical, social, economic and environmental implications of using science and technology.

IB ENVIRONMENTAL SYSTEMS AND SOCIETIES SL 4174

1 unit

Prerequisite – Biology 1, previous or concurrent enrollment in Chemistry 1, or teacher approval

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.

4172

11

4173

12

2092

11,12

2098

12

IB PHYSICS 1 SL (H)

1 unit

Prerequisite – The successful completion of Precalculus or concurrent enrollment in College Algebra/ Trig

IB PHYSICS 2 SL (H)

1 unit

Prerequisite – IB Physics SL 1 (H) 1

This two-year course sequence exposes students to this most fundamental experimental science, which seeks to explain the universe itself—from the very smallest particles to the vast distances between galaxies. Physics SL focuses on providing opportunities for scientific study within a global context that will stimulate and challenge students. This class will feature a broad treatment of major physics concepts from an experimental, theoretical and practical application viewpoint. Topics of investigation include motion and the forces that affect motion, energy and its interaction with matter, thermodynamics, waves, electricity, fields and forces, atomic and nuclear physics, and environmental physics. Additional optional topics can include relativity, engineering physics, astrophysics and imaging.

4218

11

4219

12

GROUP 5, MATHEMATICS

IB MATH APPLICATIONS AND INTERPRETATION SL 1

1 unit

Prerequisite – Geometry or teacher recommendation

IB MATH STUDIES SL 2

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.

2073

11

2074

12

IB MATH ANALYSIS AND APPROACHES SL 1 (H)

1 unit

Prerequisite – Algebra 2, Algebra 2 (H) recommended

IB MATH SL 2 (H)

1 unit

Prerequisite – IB Math 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.

2071

11,12

2072

12

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IB MATH ANALYSIS AND APPROACHES HL 1 **2075**
 1 unit 11
Prerequisite – Precalculus (H) recommended

IB MATH HL 2 (H) **2076**
 1 unit 12
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.

GROUP 6, THE ARTS & ELECTIVES

IB VISUAL ARTS SL 1 (H) **7637**
 1 unit 11
Prerequisite – Teacher recommendation

IB VISUAL ARTS SL (H) **7641**
 1 unit 11
Prerequisite – Teacher recommendation

IB VISUAL ARTS SL 2 (H) **7644**
 1 unit 12
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.

IB VISUAL ARTS HL 1 (H) **7642**
 1 unit 11
Prerequisite – Teacher recommendation

IB VISUAL ARTS HL 2 (H) **7643**
 1 unit 12
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.

IB DANCE SL 1(SME) **8176**
 1 unit 11
Prerequisite – Must be a Lancer Dancer

IB DANCE SL 2 (SME) **8177**
 1 unit 12
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, life skills and connection to other IB courses. Emphasis will be on creating, performing, and responding to different cultures, traditions and histories of dance.

IB MUSIC SL (H) **7311**
 1 unit 11,12
Prerequisite – Teacher recommendation

IB MUSIC HL 1 (H) **7284**
 1 unit 11
Prerequisite – Teacher recommendation

IB MUSIC HL 2 (H) **7285**
 1 unit 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.

IB FILM STUDIES SL **7286**
 1 unit 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 filmmaking. 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

International Baccalaureate:

A Signature Program at SME and SMNW

this course may be applied toward the minimum fine arts graduation credit requirement.

IB FILM STUDIES HL 1 **7287**
 1 unit 11
Prerequisite – None

IB FILM STUDIES HL 2 **7288**
 1 unit 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 filmmaking. 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.

IB PHILOSOPHY (H) **7810**
 1 unit 11,12

Prerequisite – None
 Philosophy allows students to ask profound, fascinating and challenging questions. The philosophical tools of critical thinking, careful analysis, and construction of arguments provide the means of addressing such questions. Students will develop their skills through the study of philosophical themes and the close reading of a philosophical text. They also learn to apply their philosophical knowledge and skills to real-life situations. The course encourages dialogue and debate, nurturing students' capacity to interpret competing and contestable claims. This course also provides an opportunity to engage in an examination of concepts and debates of global significance.

ADDITIONAL IB REQUIREMENTS

IB THEORY OF KNOWLEDGE **3602,3603**
 1/2 unit 11

Prerequisite – Concurrent enrollment in IB diploma program

IB THEORY OF KNOWLEDGE **3604**
 1/2 unit 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.

EXTENDED ESSAY 11,12

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.

CAS 11,12

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

Medical Health Science Course Offerings At-a-Glance

	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Applied Medical Science (CAA) (2 hr block per sem)	1.0			✓	✓		✓				
Certified Nursing (CNA) (CAA) (2 hr block per sem)	1.0				✓		✓				
Contemporary Communications in Medical Health Science (CAA)	1.0			✓	✓	✓	✓			✓	
Exploring Medical Health Science Careers	.5		✓	✓	✓						
Healthcare Credentialing (CAA) (2 hr block per sem)	1.0			✓	✓		✓				
Medical Health Science (CAA) (2 hr block per sem)	1.0			✓	✓		✓				
Medical Science Clinical Investigation (H) (CAA) (3 hr block, 2 sems)	3.0				✓		✓				\$20
Sports Medicine Clinical Investigation - Internal (CAA) (2 hr block per sem)	1.0				✓		✓				
Sports Medicine Clinical Investigation - External (CAA) (2 hr block per sem)	1.0				✓		✓				

Column Header Key

9, 10, 11, 12 = Availability by Grade Level

G = Meets a Graduation Requirement

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W = Weighted in GPA Calculation

NCAA = Meets NCAA Eligibility Requirements

R = Can Be Repeated for Credit

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.

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.

SMSD Career Pathways			
Pathway: Health Science	Strand: Medical Science	Strand: Sports Medicine	Strand: CNA
Intro Level	Exploring Medical Health Careers (0.5)		
Technical Level	Medical Health Science (1.0)		
	Human Anatomy & Physiology (1.0)		
	Nutrition & Wellness (0.5)	Sports Medicine 1 (1.0)	
Application Level	Med Sci Clinical Investigation (3.0)	Sports Medicine 2 (1.0)	Certified Nursing Assistant (1.0)
	Forensic Science 1 (0.5)	Sports Medicine 3 (1.0)	
	Forensic Science 2 (0.5)		

APPLIED MEDICAL SCIENCE (CAA)

4530

1 unit (2-hour block per semester)

11,12

Prerequisite – Completion of Medical Science with minimum completion of 80%

Provides students with a more extensive overview of health care, in general, and medicine related to the wide world of sports and physical activity. Students will learn what sports medicine is and the multidisciplinary approach to athletic health care. This course will continue to develop understanding of body systems and response to injury. Students will be introduced to injuries to the ankle, knee and shoulder. In addition, upon successful completion of training, students will receive certifications in BLS (healthcare provider CPR), HeartSaver First Aid and Stop the Bleed. Students enrolled in this course may qualify for college credit at JCCC (College Now).

CERTIFIED NURSING (CNA) (CAA)

4150

1 unit (2-hour block per semester)

12

Prerequisite – Medical Science, 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.

CONTEMPORARY COMMUNICATIONS IN MEDICAL HEALTH SCIENCE (CAA)

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.*This course does not meet NCAA eligibility requirements.

Medical Health Science: A Signature Program at CAA

EXPLORING MEDICAL HEALTH SCIENCE CAREERS 4149

1/2 unit 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.

HEALTHCARE CREDENTIALING (CAA) 4516

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

Prerequisite – Exploring Medical Health Science Careers

Students will work toward various credentials for high-demand health-care occupations. Possible credentials include Pharmacy Technician (CPhT), EKG Technician (CET), Phlebotomy Technician (CPT), and Medical Assistant (CCMA).

MEDICAL HEALTH SCIENCE (CAA) 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. 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.

MED SCI CLINICAL INVESTIGATION (H) (CAA) 4138

3 units (3-hour block, 2 semesters) 12

Prerequisite – Completion of Medical Science with a minimum grade of 80%, Human Anatomy and Physiology with a minimum grade of 70%, application and interview required.

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]. Course cost is \$20.00.

SPORTS MEDICINE CLINICAL INVESTIGATION - INTERNAL (CAA) 4512

1 unit (2-hour block per semester) 12

Prerequisite – Sports Medicine 1

This work-based learning course covers topics such as the central training room, the athletic student-aid program, emergency preparedness, assessment and evaluation of sports injuries, rehabilitation and modality usage and proper taping and wrapping. This course allows students to collaborate with athletic medical professionals in the community. These interactions are designed for students to have a more thorough understanding of the sports medicine field and the application of knowledge already acquired. District transportation is not provided for off-site clinical opportunities. Students enrolled in this course may qualify for college credit at JCCC (College Now).

SPORTS MEDICINE CLINICAL INVESTIGATION - EXTERNAL (CAA) 4514

1 unit (2-hour block per semester) 12

Prerequisite – Sports Medicine 2

The capstone course of the Sports Medicine strand provides students with Professional Learning Experiences (PLE) to gain extensive knowledge of health/wellness professionals in private/public industry, community organizations, and health care settings, as well as job opportunities, wage, and duties. Students will gain extensive knowledge in selected areas of health care, specific occupations, skills sets, educational requirements, credentials/licensure, and daily routines by participating in Job Shadows or Internships. This class includes instruction in specific skill sets related to health occupations, research on emerging trends, exploration of daily routines, understanding code of ethics, patient rights, standards and regulations, safety, and legal requirements. District transportation is not provided to off-site work experiences.

Project Blue Eagle:

A Signature Program at All Shawnee Mission High Schools

Project Blue Eagle Course Offerings At-a-Glance

Emergency Medical Services	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Blue Eagle Academy	0.5	✓	✓	✓	✓	✓					
Contemporary Communications (CTC)	0.5			✓	✓	✓	✓			✓	
Emergency Medical Services 1 (CTC) (2 hour block per semester)	1.0		✓	✓	✓		✓				
Emergency Medical Services 1 (CTC) (2 hour block full year)	2.0			✓	✓		✓				
Emergency Medical Services 3 (CTC) (2 hour block, one semester)	1.0				✓		✓			✓	
Fire Science	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Blue Eagle Academy	0.5	✓	✓	✓	✓	✓					
Contemporary Communications (CTC)	0.5			✓	✓	✓		✓		✓	
Fire Science 1 (CTC) (2 hour block full year)	2.0		✓	✓	✓		✓				
Fire Science 2 (CTC) (2 hour block full year)	2.0			✓	✓		✓				
Fire Science 3/ HazMat (CTC) (2 hour block per full year)	2.0				✓		✓				
Wildland Firefighting	0.5			✓	✓						
Law Enforcement	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Blue Eagle Academy	0.5	✓	✓	✓	✓	✓					
Contemporary Communications (CTC)	0.5			✓	✓	✓	✓			✓	
Law Enforcement 1 (CTC) (2 hour block per semester)	1.0		✓	✓	✓		✓				
Law Enforcement 2 (CTC) (2 hour block full year)	1.0			✓	✓		✓				
Law Enforcement 3 (CTC) (2 hour block per semester)	1.0				✓		✓				

Project Blue Eagle:

A Signature Program at All Shawnee Mission High Schools

Pre-Law	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Intro to the Study of Legal Systems	0.5	✓	✓	✓	✓	✓					
Practical Law	0.5		✓	✓	✓	✓					
Business Law	0.5	✓	✓	✓	✓						
Accounting	1.0		✓	✓	✓						
Forensic Science 1	0.5		✓	✓	✓		✓				
Forensic Science 2	0.5		✓	✓	✓		✓				
Applications in Law	1.0				✓	✓	✓				
LPSS Internship	0.5				✓		✓				

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NCAA = Meets NCAA Eligibility Requirements

R = Can Be Repeated for Credit

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 Career Pathways	
Pathway: Health Science	Strand: EMT/EMR
Intro Level	Blue Eagle Academy (.05)
Technical Level	EMS 1 (1.5)
Application Level	EMS 2 (1.0)
	EMS 3 (1.0)

EMERGENCY MEDICAL SERVICES COURSE DESCRIPTIONS

BLUE EAGLE ACADEMY **6610**
1/2 unit *9,10,11,12*

Prerequisite – None

This course is an introductory examination of the public safety career fields and their foundational skills and knowledge standards. Students will learn and practice the fundamental skills and concepts important to the public safety professions. The course is designed to provide the information and experiences necessary for students to determine their future in the program. Successful completion of the Basic Academy is required for those who wish to enroll in Fire Science I, Law Enforcement I, or Emergency Medical Services 1. This course counts toward SMSD social studies elective credit, but the course is not permitted for use as Kansas Board of Regents Qualified Admission.

CONTEMPORARY COMMUNICATIONS IN EMS **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.
 *This course does not meet NCAA eligibility requirements.

EMERGENCY MEDICAL SERVICES 1 (EMS 1) **6620**
1 unit (2-hour block per semester) *10,11,12*
Prerequisite – Blue Eagle Academy

This course 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. Cardiopulmonary Resuscitation (CPR) and the use of Automatic Defibrillators will be a major part of the course with certification upon completion.

EMERGENCY MEDICAL SERVICES 2 (EMS 2) **6628**
2 units (2 hour, full year) *11,12*
Prerequisite – EMS 1

This course builds upon the skills acquired in EMS 1. The student will receive both didactic and psychomotor skills training in CPR, patient assessment, fracture management, airway management and trauma management. Students will participate in realistic medical emergency scenarios with actors playing life-like patients and bystanders as well as field internship shifts with local agencies. Successful completion of this course with a minimum grade of "C" will enable the student to sit for the Emergency Medical Responder (EMR) certification exam at JCCC, and have the potential to enroll in the spring Emergency Medical Technician course at JCCC.

EMERGENCY MEDICAL SERVICES 3 (EMS 3) **6631**
2 units (2 hour, full year) *12*
Prerequisite – EMS 2

This course serves as the capstone for the Project Blue Eagle EMS Program. This internship is a semester of on-site mentorship in the field of EMS. 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. Students may elect to enroll in EMT coursework at JCCC as part of this course. Course is repeatable for credit.

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 Career Pathways	
Pathway: Fire	Strand: Fire
Intro Level	Blue Eagle Academy (.05)
Technical Level	Fire Science 1 (2.0)
Application Level	Fire Science 2 (2.0)
	Fire Science 3/HazMat (2.0)
	Wildland Firefighting (0.5)

FIRE SCIENCE COURSE DESCRIPTIONS

BLUE EAGLE ACADEMY **6610**
1/2 unit *9,10,11,12*

Prerequisite – None

This course is an introductory examination of the public safety career fields and their foundational skills and knowledge standards. Students will learn and practice the fundamental skills and concepts important to the public safety professions. The course is designed to provide the information and experiences necessary for students to determine their future in the program. Successful completion of the Basic Academy is required for those who wish to enroll in Fire Science I, Law Enforcement I, or Emergency Medical Services 1. This course counts toward SMSD social studies elective credit, but the course is not permitted for use as Kansas Board of Regents Qualified Admission.

**CONTEMPORARY COMMUNICATIONS
IN FIRE SCIENCE (CTC)** **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. 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.

*This course does not meet NCAA eligibility requirements.

FIRE SCIENCE 1 (CTC) **6622**
2 units (2-hour block, full year) *10,11,12*

Prerequisite – Introduction to Public Safety

This course involves an intensive study of the skills and concepts needed to prepare for the Fire Science 2 Course. Completion of the Fire Science 1 and 2 courses equip students with the knowledge and skills necessary to enter the fire academy after high school. The curriculum includes an examination of the NFPA skills and knowledge standards for Firefighter I.

FIRE SCIENCE 2 (CTC) **6624**
2 units (2-hour block, full year) *11,12*

Prerequisite – Fire Science 1

This course continues the intensive study of NFPA skills and knowledge standards started in Fire Science I. Students in this course will continue their studies through examination of the NFPA skills and knowledge standards associated with Firefighter II.

FIRE SCIENCE 3/HAZMAT (CTC) **6625**
2 units ((2-hour block, full year) *12*

Prerequisite – Fire Science 2

Students in this capstone course will participate in HazMat Awareness & Operations training, internship opportunities with our partnering fire agencies, and prepare for national firefighter certification. Eligible students will be able to participate in national certification testing to be job ready. Students enrolled in this course may be eligible for JCCC credit (College Now).

WILDLAND FIREFIGHTING **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 on-line based course that can be supported by the Blue Eagle Staff.

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 Career Pathways	
Pathway: Public Safety & Security	Strand: Law Enforcement
Intro Level	Blue Eagle Academy (0.5)
Technical Level	EMS 1 (1.0)
	Law Enforcement 1 (1.0)
	Forensic Science 1 (0.5)
	Forensic Science 2 (0.5)
Application Level	Law Enforcement 2 (1.0)
	LPSS Internship (0.5)

LAW ENFORCEMENT COURSE DESCRIPTIONS

FORENSIC SCIENCE 1 **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.

FORENSIC SCIENCE 2 **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.

LAW ENFORCEMENT 1 (CTC) **6612**
1 unit (2-hour block, one semester) *10,11,12*
Prerequisite – Blue Eagle Academy

This class continues the track started in Blue Eagle Academy, focusing on the study of Constitutional Law and Laws in the State of Kansas. Students interact with law enforcement professionals from all levels and several jurisdictions to better understand their career interests. Students will work on job-specific skills, such as evidence retrieval and packaging, along with use of force law and techniques, to engage successfully in scenario-based learning. Senior students may waive Blue Eagle Academy requirement with application and approval.

LAW ENFORCEMENT 2 (CTC) **6614**
1 unit (2-hour block, one semester) *11,12*
Prerequisite – Law Enforcement 1

This course continues concepts and skills learned in Law Enforcement I but includes new concepts and higher-level activities. Students will learn laws pertaining to traffic enforcement and reinforce those lessons using police science vehicles for traffic stops. Students will tackle concepts such as Active Shooter and engage in mock event and scenario training. To fully participate, students will need to have a valid driver's license or permit and successfully completed Law Enforcement 1.

LAW ENFORCEMENT 3 **6630**
1 unit (2-hour block per semester) *12*
Prerequisite – Law Enforcement 2 and 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.

Project Blue Eagle:

A Signature Program at All Shawnee Mission High Schools

The Pre-Law courses are offered at each high school.

SMSD Career Pathways	
Pathway: Law	Strand: Law
Intro Level	Intro to the Study of Legal Systems (0.5)
Technical Level	Practical Law (0.5)
	Business Law (0.5)
	Accounting (1.0)
	Forensic Science 1 (0.5)
	Forensic Science 2 (0.5)
Application Level	Applications in Law (1.0)
	LPSS Internship (0.5)

PRE-LAW COURSE DESCRIPTIONS

INTRODUCTION TO THE STUDY OF LEGAL SYSTEMS

6611
1/2 unit 9,10,11,12
Prerequisite – None

Introduction to the Study of Legal Systems is the introduction to the law pathway, and its relationship to public safety. As such, it is an exploratory class giving the student access to the principles and concepts necessary for the basic study of law. 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. This course counts towards SMSD social studies elective credit, but the course is not permitted for use as Kansas Board of Regents Qualified Admission.

PRACTICAL LAW

6122
1/2 unit 10,11,12
Prerequisite – None

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.

BUSINESS LAW

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 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.

ACCOUNTING

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. This is an elective course for the Project Blue Eagle Pre-Law Signature Program.

APPLICATIONS IN LAW

6618
1 unit 12
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.

LPSS INTERNSHIP

6630
1/2 unit 12
Prerequisite – 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.

Project Blue Eagle:

A Signature Program at All Shawnee Mission High Schools

FORENSIC SCIENCE 1

1/2 unit science elective

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.

4243

10,11,12

FORENSIC SCIENCE 2

1/2 unit science elective

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.

4245

10,11,12