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# HIGH SCHOOL PROGRAM PLANNING GUIDE

2024-2025



SHAWNEE MISSION  
SCHOOL DISTRICT



**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:

We are excited to share with you this planning guide for the 2024-2025 school year. With the incoming freshman Class of 2028, the Shawnee Mission School District will be introducing new graduation requirements. The classes of 2027 and earlier will continue to follow the guidance from previous handbooks. These expectations have been updated in response to new decisions from the Kansas State Board of Education, which updated requirements in the state in November 2022. While students still need 23.5 total units of credit to graduate, some of the details have changed. Specifically, the Class of 2028 must earn a semester credit in communications and a full credit in STEM (science, technology, engineering, and math) beyond the math and science credits already in place.

Probably the biggest change, however, is the additional requirement of two Post Secondary Assets (PSAs). PSAs are skills, knowledge, and experience outside of classroom credits. Examples include internships, community service, activity participation, 9 or more hours of college credit, state assessment scores of 3 or higher, and 90% attendance. There are many more examples in the pages of this guidebook. This new requirement aligns well with our Real World Learning Initiative, which has been a focus for several years.

Our goal continues to be to fulfill the promise of the district's Strategic Plan of supporting students to develop an individual plan to achieve their future goals and aspirations. With so many opportunities available, 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 2024-2025 school year and beyond!

Sincerely,

A handwritten signature in blue ink that reads "Michelle Hubbard".

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)

Please see your high school counselor about how to access opportunities for Market Value Assets.

# 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.

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

- [Automotive Technology](#)
- [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](http://www.smsd.org).

Special thanks to **Lawrence Westermayer** and **Miguel Pacheco**, students of **Mr. Walter Mansfield** at Shawnee Mission North, for their design work on these pages.

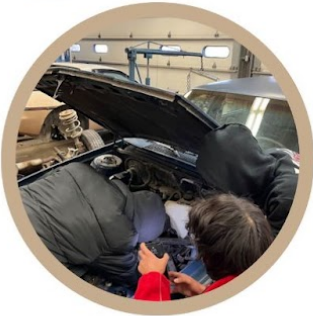
## Automotive Technology



# Automotive Technology

## Potential Careers

**Aircraft Maintenance, Technician,  
Automotive Service Technician, Auto Body  
Collision Repair, Mechanic**



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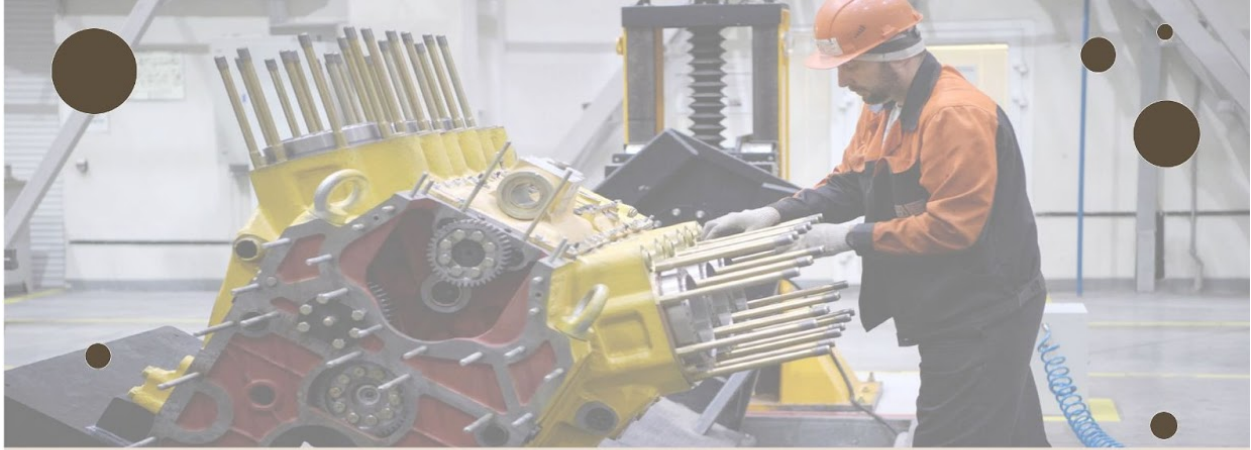
**Mechanics is the paradise of the mathematical sciences because by means of it, one comes to the fruits of mathematics.**

**- Leonardo da Vinci**







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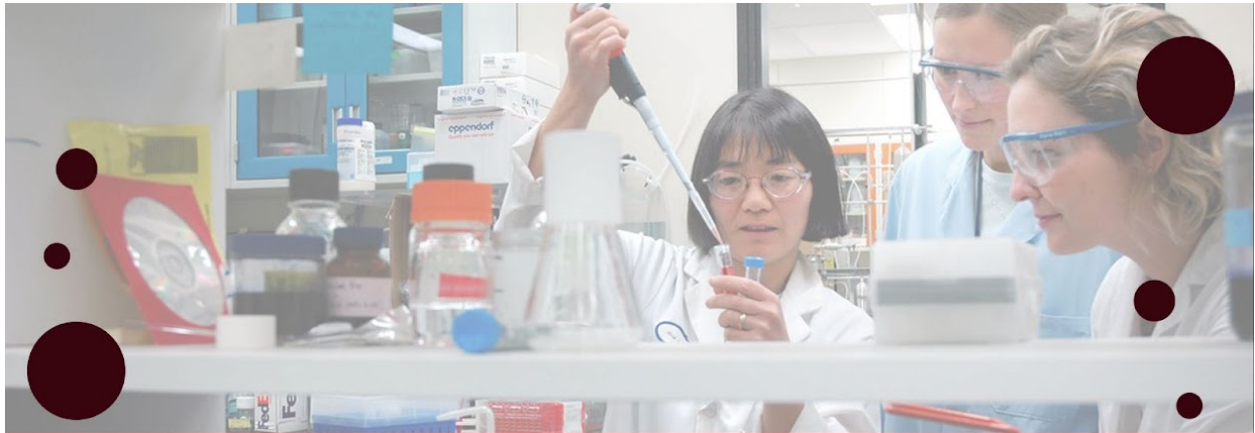




# Automotive Technology

	Introductory Courses	Technical Knowledge & Skills	Application	MVA
9	<p>Intro to Business</p>  <p>Automotive Essentials</p> 			
10		<p>Automotive Technology 1</p>   <p>Entrepreneurship</p>		<p>Work Experiences (Internship &amp; Client-Connected Projects)</p>
11			<p>Automotive Technology 2</p> 	
12			<p>Automotive Technology 3</p> 	

## Biotechnology



# Biotechnology



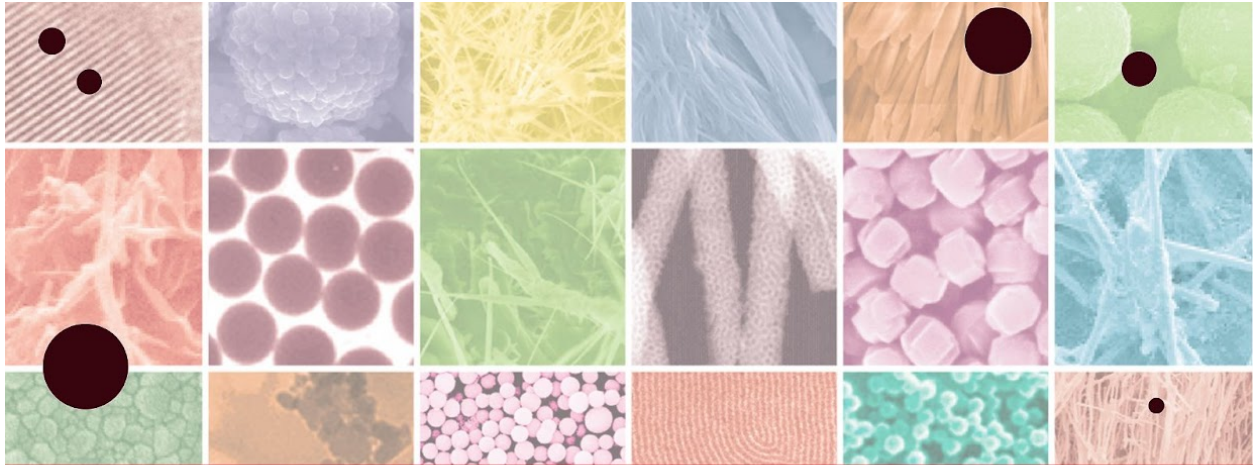
## Potential Careers

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**



# Biotechnology

	Introductory Courses	Technical Knowledge & Skills	Application	MVA
9	<p>Intro to Biotechnology</p> <p>Biotechnology</p> 			<p>Work Experiences (Internship &amp; Client-Connected Projects)</p> <p>IRCs (Biotech Core Skills Institute; OSHA)</p>
10		<p>Plant &amp; Soil Science</p> 		
11		<p>DNA &amp; Protein Diagnostics Honors</p> 		
12		<p>Agriculture and Pharmaceuticals</p> 	<p>Biotech Research &amp; Professional Learning Experience</p> 	



## Business Finance



# Business Finance

## 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



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**T**he most difficult thing is the decision to act, the rest is merely tenacity.

-Amelia Earhart








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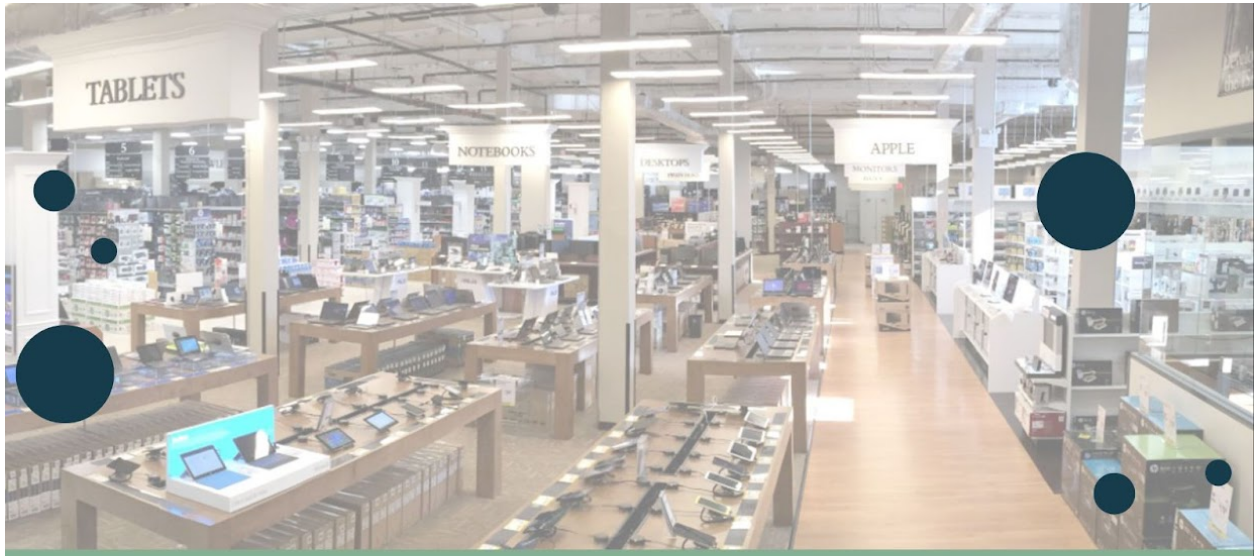




# Business Finance

	Introductory Courses	Technical Knowledge & Skills	Application	MVA
9	Intro to Business 			
10		Banking and Finance 		Entrepreneurial Experiences
11		Investing  Accounting 	Business Finance Professional Learning Experience 	Work Experiences (Internship & Client-Connected Projects)
12		Economics 1   Entrepreneurship		

## Business Management/Entrepreneurship



## Business Management/Entrepreneurship

## Potential Careers

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











MAKE  
THINGS  
HAPPEN!

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

-Sallie Krawcheck



# Business Management/Entrepreneurship

	Introductory Courses	Technical Knowledge & Skills	Application	MVA
9	<p><b>Intro to Business</b> <b>Entrepreneurship</b></p>  			<p><b>Work Experiences (Internship &amp; Client-Connected Projects)</b></p>
10	<p><b>Business Law</b> <b>Business Management</b></p>  	<p><b>Accounting</b></p> 		
11		<p><b>Marketing Principles</b></p> 	<p><b>Applied Business Development</b></p> 	
12		<p><b>Economics 1</b></p> 		



## Construction & Design



# Construction & Design



## 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





# Construction & Design

	Introductory courses	Technical Knowledge & Skills	Application	MVA
9	<p>Projects In Industrial Technology</p>  <p>(Taken In Middle School)</p>			<p>Work Experiences (Internship &amp; Client-Connected Projects)</p> <p>IRCs (AutoDesk Certification)</p>
10		<p>Introduction Computer-Aided Design</p> 		
11		<p>Computer-Aided Architectural Design 1</p> 	<p>Introduction Computer-Aided Design 2</p>  <p>OR</p> <p>Interior Design</p> 	
12		<p>Interior Design</p> 		

## Emergency Medical Services



# Emergency Medical Services

## 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**







**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 far that gets you.**

**-Neil deGrasse Tyson**

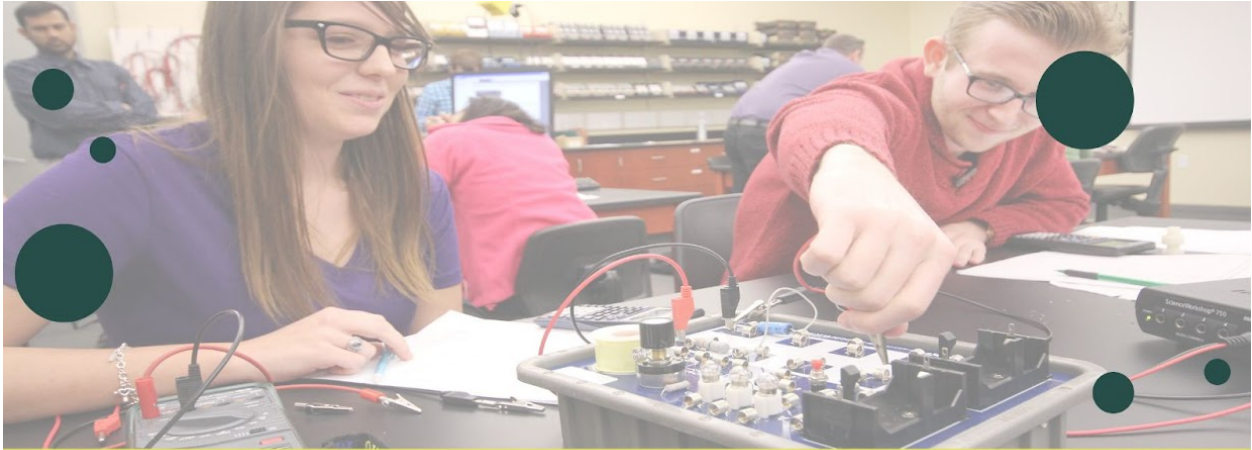


# Emergency Medical Services

	Introductory Courses	Technical Knowledge & Skills	Application	MVA
9	Blue Eagle Academy 			Work Experiences (Internship & Client-Connected Projects)
10		EMS 1 		IRCs (BLS; EMR; EMT)
11			EMS 2 	College Credit
12			EMS 3 	



## Engineering & Applied Mathematics



## Engineering & Applied Mathematics



## Potential Careers

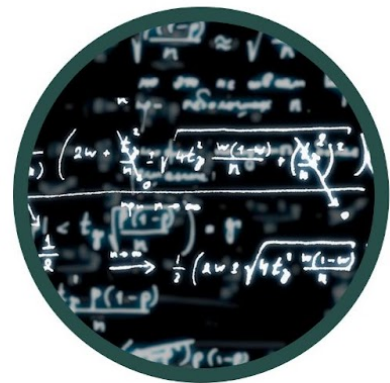
Aerospace Engineer, Agricultural Engineer, Biomedical Engineer, Chemical Engineer, Civil Engineer, Electrical Engineer, Engineering Technician, Industrial Engineer, Mechanical Engineer, Aircraft Maintenance Technician, Air Crew Member, Airfield Operations Specialist, Air Traffic Controller, Avionics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

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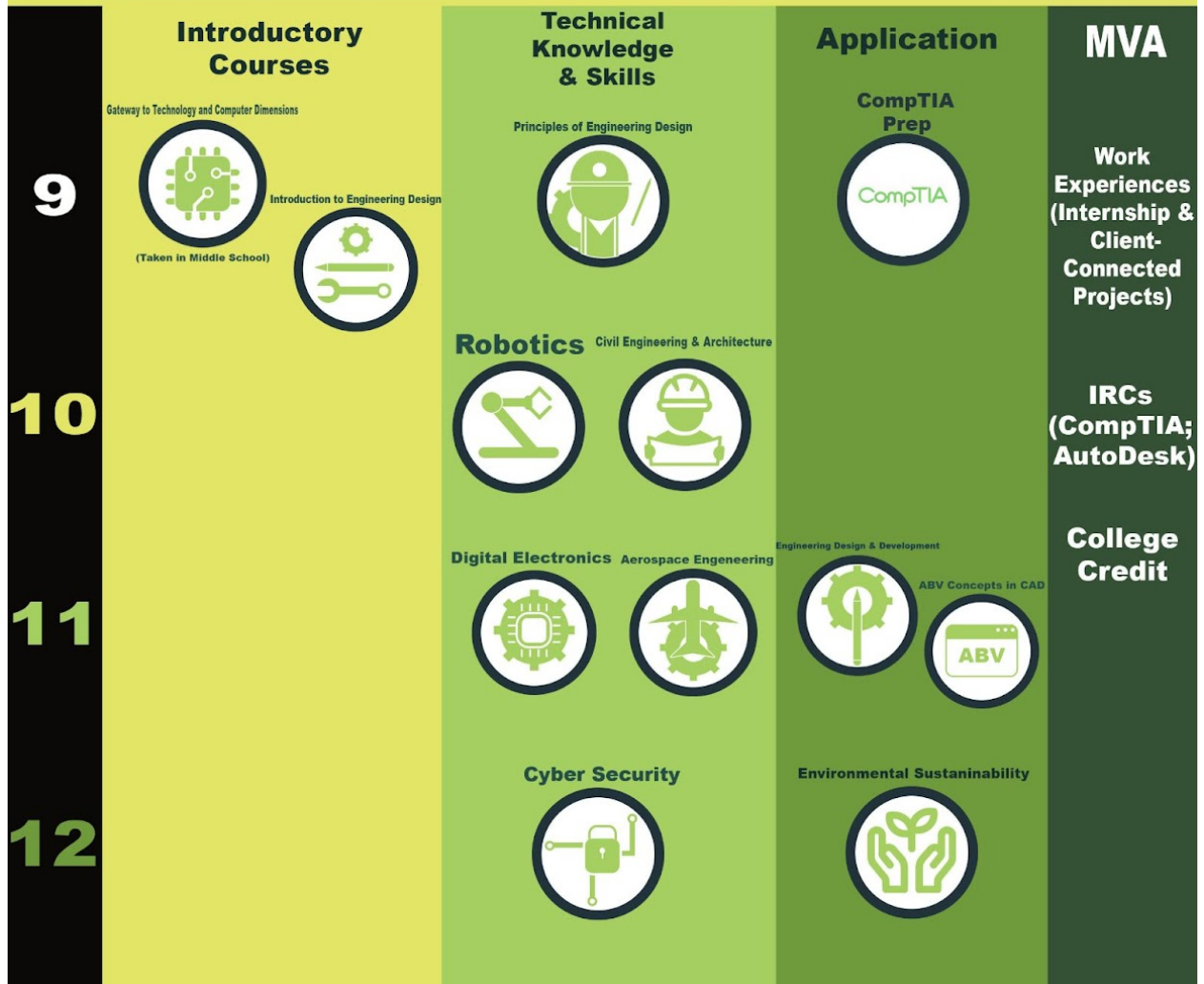
**T**he engineer has been, and is, a maker of history.”

-James Kip Finch

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# Engineering & Applied Mathematics



## Fashion, Apparel, and Interior Design



## Fashion, Apparel, and Interior Design

# Potential Careers

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

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

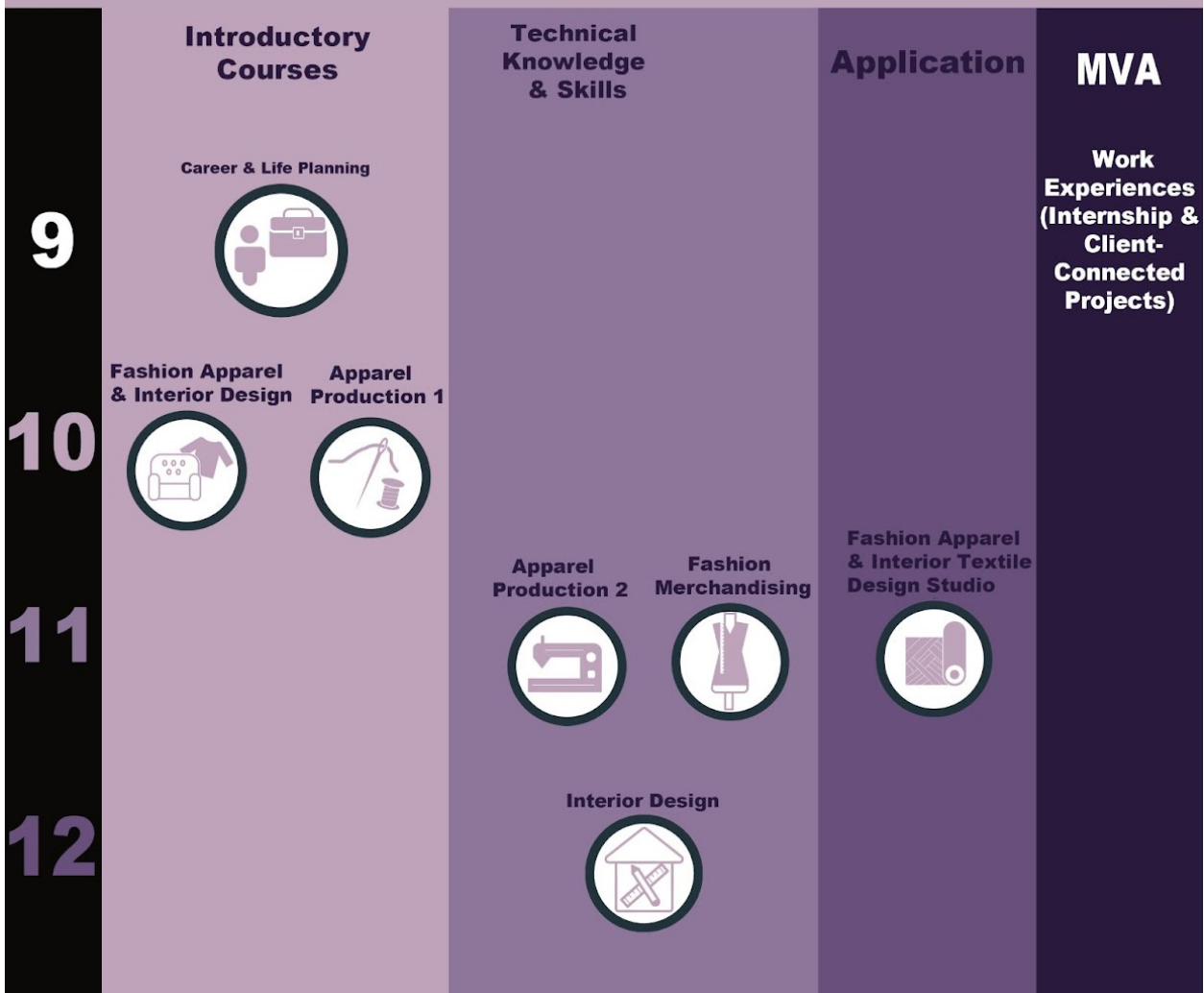
– Vivienne Westwood







## Fashion, Apparel, and Interior Design





## Fire Science



# Fire Science

## 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**



# Fire Science

	Introductory Courses	Technical Knowledge & Skills	Application	MVA
9	Blue Eagle Academy 			
10		Fire Science 1 		Work Experiences (Internship & Client-Connected Projects)
11			Fire Science 2 	IRCs (BLS; EMR; EMT Firefighter 1 & 2 Hazmat ops; wildland Fire red card)
12			Fire Science 3 (HazMat) 	College Credit

## Graphic Design



# Graphic Design

## 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**



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**C**reativity is nothing but a mind set free.

- Torrie T. Asai

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# Graphic Design

	Introductory Courses	Technical Knowledge & Skills	Application	MVA
9	Intro to Studio Art Digital Design	Digital Photo		Work Experiences (Internship & Client-Connected Projects)
10	Drawing 1	Digital Design Studio	Drawing 2	IRCs (Adobe Certifications)
11		Graphic Design-Art		Entrepreneurial Experiences
12			Digital Design Project Management	

## Journalism



# Journalism



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**J**ournalism is what we need to make democracy work.

**-Walter Cronkite**

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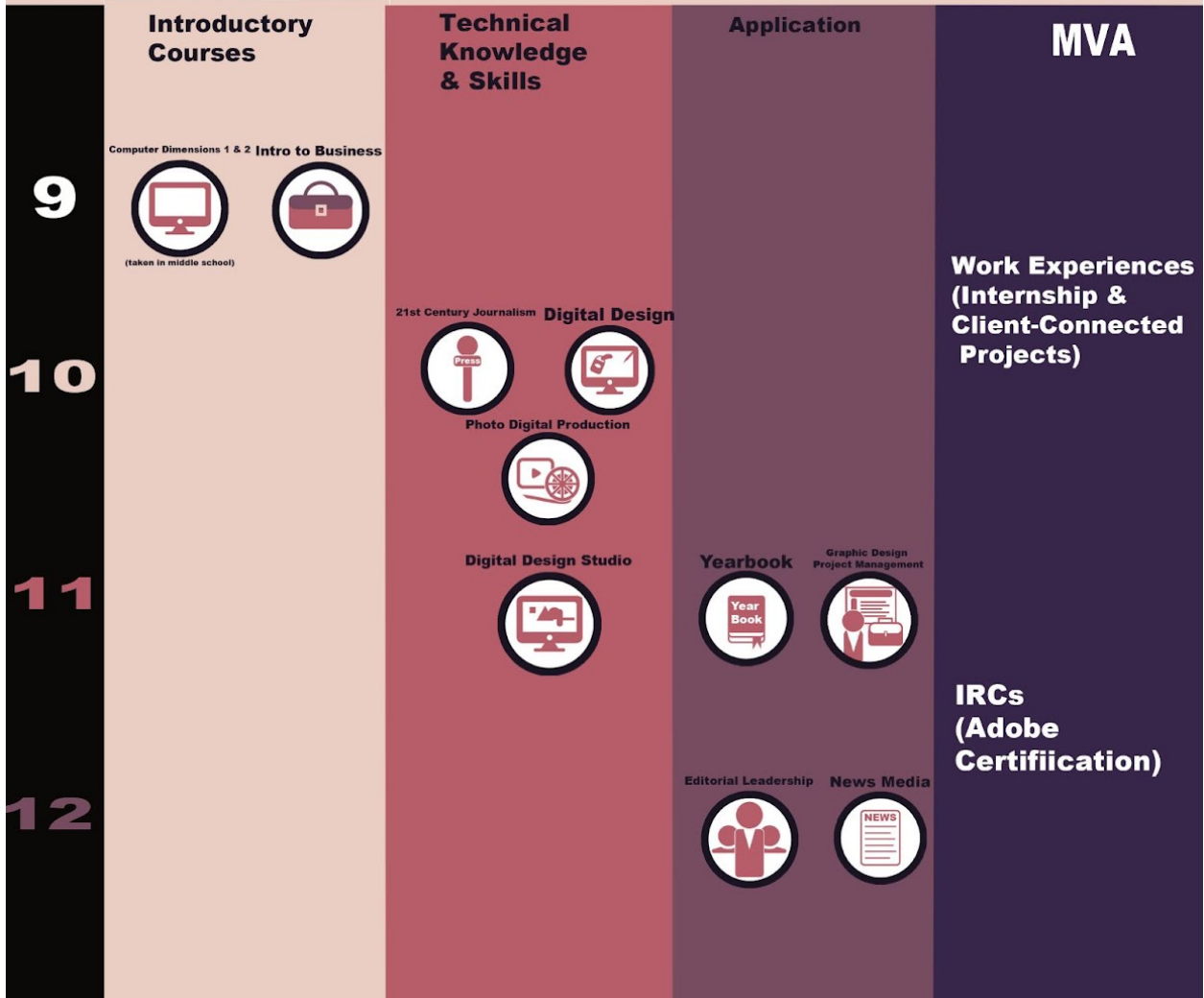
## Potential Careers

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

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# Journalism





## Law Enforcement



# Law Enforcement



## 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**





# Law Enforcement

<b>9</b>          <b>10</b>          <b>11</b>          <b>12</b>	<b>Introductory Courses</b>  Blue Eagle Academy 	<b>Technical Knowledge &amp; Skills</b>   Law Enforcement 1 	<b>Application</b>      Law Enforcement 2 	<b>MVA</b>      Work Experiences (Internship & Client-Connected Projects)   IRCs (BLS; Certified Protection Officer)    College Credit
		Forensic Science 1 	Law Enforcement 3 	
		Forensic Science 2 		

## Manufacturing: Metal Production



# Metal Production



## Potential Careers

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








**T**here are three things extremely hard: steel,  
a diamond, and to know one's self.

**-Benjamin Franklin**



# Metal Production

	Introductory Courses	Technical Knowledge & Skills	Application	MVA
9	<p>Projects in Industrial Technology <b>Metal Production</b></p> <p>(taken in middle school)</p>  			
10		<p>Intro to welding</p> 		
11		<p>Welding 1</p> 		<p>Work Experiences (Internship &amp; Client-Connected Projects)</p>
12			<p>Welding 2</p> 	



## Manufacturing: Wood Production



## Wood Production



## 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



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**A** tree is our most intimate contact with nature.






-George Nakashima

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# Wood Production

	Introductory Courses	Technical Knowledge & Skills	Application	MVA
9	<p>Projects in Industrial Technology (taken in Middle School)</p>  <p>Woodworking Principles</p> 			
10		<p>Furniture &amp; Cabinetry Fabrication</p> 		
11			<p>Furniture &amp; Cabinetry Fabrication</p> 	<p>Work Experiences (Internship &amp; Client-Connected Projects)</p>
12			<p>Computer Aided Manufacturing</p> 	

## Marketing



# Marketing

## 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**



# Marketing

	Introductory Courses	Technical Knowledge & Skills	Application	MVA
9	Intro to Business 			
10		Marketing Principles  Business Management 	Web Design 	Work Experiences (Internship & Client-Connected Projects)
11		Entrepreneurship  Digital Design Studio 	Marketing Management 	IRCs (Adobe Certification)
12		Economics 1  Accounting 	Public Relations & Media  Marketing Applications 	Entrepreneurial Experiences



## Medical Science



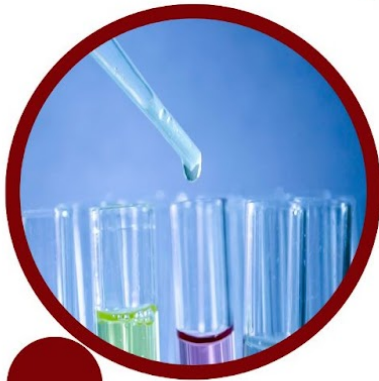
# Medical Science

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**W**herever the art of Medicine is loved, there is also a love of Humanity.

**-Hippocrates**

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# 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

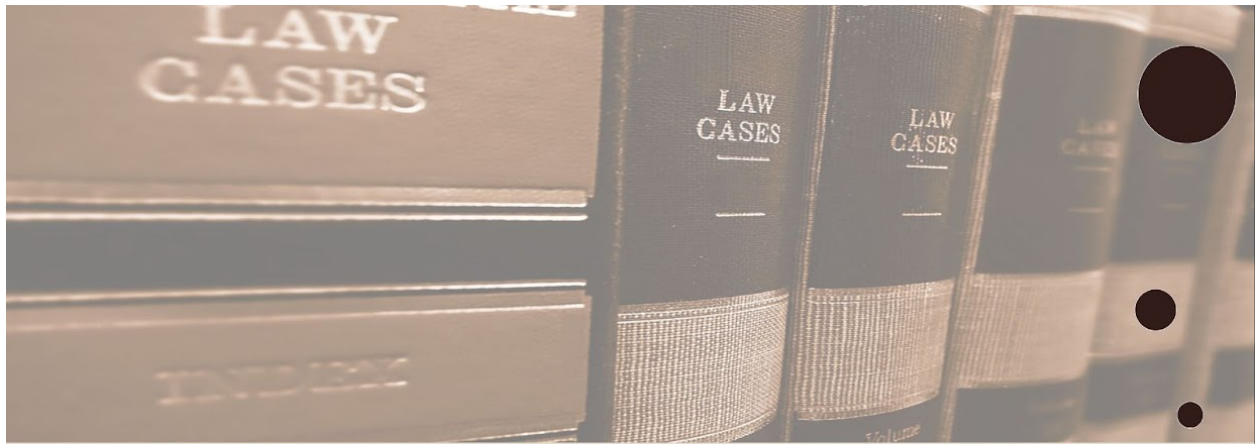
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# Medical Science

	Introductory Courses	Technical Knowledge & Skills	Application	MVA
9				
10		Nutrition & Wellness 		<b>Work Experiences (Internship &amp; Client-Connected Projects)</b>  <b>IRCs (BLS; Teen Mental Health First Aid)</b>  <b>College Credit</b>
11		Exploring Medical Health Careers   Medical Health Science 		
		Anatomy and Physiology   Applied Medical Science 		
12			Medical Science Clinical Investigation   Certified Nurse Aide   Sports Medicine Clinical Investigation 	



## Pre-Law



## 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**

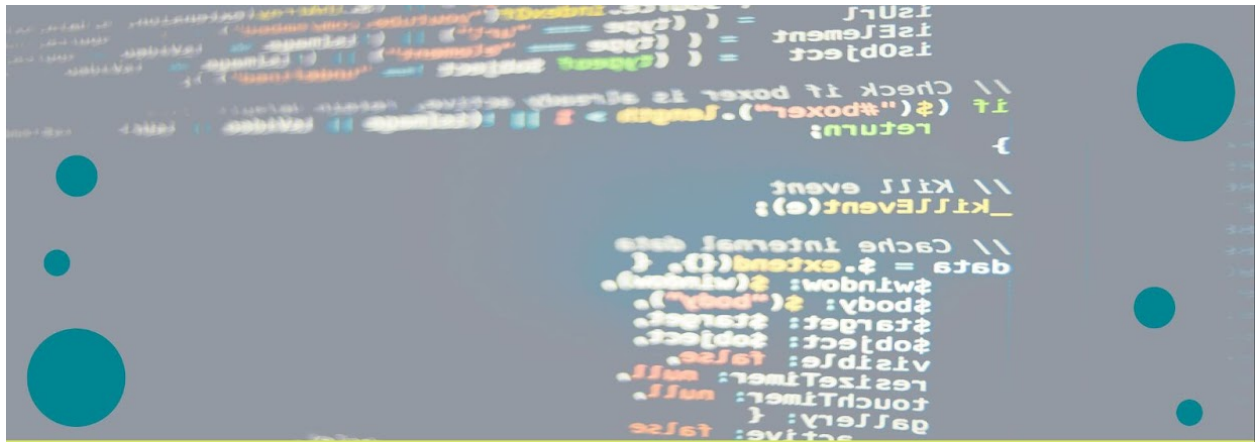


# Pre-Law

	Introductory Courses	Technical Knowledge & Skills	Application	MVA
9	<p>Intro The Study of legal Systems</p> 			
10		<p>Practical Law</p>  <p>Business Law</p> 		<p>Work Experiences (Internship &amp; Client-Connected Projects)</p>
11		<p>Forensic Science 1</p> 	<p>Application in Law</p> 	
12		<p>Forensic Science 2</p> 	<p>LPSS Internship</p> 	



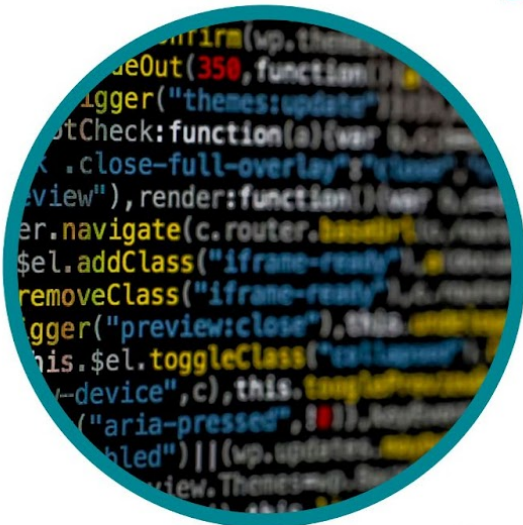
## Programming & Software Development



## Programming & Software Development

## Potential Careers

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



**H**ow you look at it is pretty much how you'll see it"

-Rasheed Ogunlaru



# Programming & Software Development

	Introductory Courses	Technical Knowledge & Skills	Application	MVA
9	<p>Computer Dimensions 1 &amp; 2    Intro to Computer Programming</p> <div style="display: flex; justify-content: space-around;"> </div> <p style="font-size: 0.8em;">(taken in middle school)</p>			<h2 style="margin: 0;">College Credit</h2> <p style="font-size: 0.8em; margin: 5px 0;">Work Experiences (Internship &amp; Client-Connected Projects)</p> <p style="font-size: 0.8em; margin: 5px 0;">IRCs (Comp TIA Certifications)</p>
10		<p style="font-size: 0.8em;">Computer Science Principles</p>	<p style="font-size: 0.8em;">CompTIA Prep</p>	
11		<p style="font-size: 0.8em;">Web Design</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p style="font-size: 0.8em;">AP Computer Science</p> </div> <div style="text-align: center;"> <p style="font-size: 0.8em;">Advanced Programming Concepts</p> </div> </div>	
12			<p style="font-size: 0.8em;">Cyber Security</p> <div style="display: flex; justify-content: space-around;"> </div>	



## Restaurant & Event Management



## Restaurant & Event Management

## 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















**F**ood 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





# Restaurant & Event Management

	Introductory Courses	Technical Knowledge & Skills	Application	MVA
9	<p>Intro to Business    Career &amp; Life Planning</p>  	<p>Focus on Foods    Advanced Foods</p>  		
10	<p>Table Service Internship</p> 	<p>Culinary Arts 1    Commercial Baking 1</p>  		<p><b>College Credit</b></p> <p>Work Experiences (Internship &amp; Client-Connected Projects)</p> <p>IRCs (ServSafe)</p>
11		<p>Catering Management &amp; Event Planning    Intro to Restaurant Management</p>  	<p>Culinary Arts 2</p> 	
12		<p>Entrepreneurship</p> 	<p>Commercial Baking 1</p> 	

## Teacher Training



# Teacher Training



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**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

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## Potential Careers






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

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# Teacher Training

	Introductory courses	Technical Knowledge & Skills	Application	MVA
9	<p>Career &amp; Life Planning</p> 			<p><b>College Credit</b></p> <p>Work Experiences (Internship &amp; Client-Connected Projects)</p> <p>IRCs (Comp TIA Certifications)</p>
10	<p>Child Development &amp; Human Growth</p> 	<p>Teacher Education 1</p> 		
11			<p>Teacher Education 2</p> 	
12			<p>Teacher internship</p> 	



## Video Production



## Video Production



## 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










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

**-Dan Patterson**



# Video Production

	Introductory Courses	Technical Knowledge & Skills	Application	MVA
9	<p>Intro to Business</p>  <p>Computer Dimensions 1&amp;2 <small>(taken in middle school)</small></p> 			<p><b>Entrepreneurial Experiences</b></p> <p>Work Experiences (Internship &amp; Client-Connected Projects)</p> <p>IRCs (Adobe Certifications)</p>
10	<p>Video Production 1</p> 	<p>Video Production Advanced</p> 		
11	<p>Video Production 2</p> 		<p>Video Production leadership</p> 	
12			<p>Public Relations &amp; media</p> 	

## Web & Digital Communications



## Web & Digital Communications



## 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**

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**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**









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# Web & Digital Communications

	Introductory Courses	Technical Knowledge & Skills	Application	MVA
9	<p>Computer Dimensions 1 &amp; 2    Intro to Computer Programming</p>   <p>(taken in middle school)</p>			<p>Work Experiences (Internship &amp; Client-Connected Projects)</p> <p>IRCs (Adobe Certification)</p>
10	<p><b>Graphic Design</b></p> 	<p>3D Modeling &amp; Animation 1 &amp; 2    2D Animation &amp; Motion Graphics 1 &amp; 2</p>  		
11		<p><b>Game Design &amp; development 1</b></p> 	<p><b>Game Design &amp; development 2</b></p> 	
12		<p><b>Web Design</b></p> 		

## 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 for graduation. 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 schedule.

## Classification of Students

Students will advance forward in grade level based on the number of years they have been in high school. Students are no longer 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

Due to action by the Kansas State Board of Education, graduation requirements will change beginning with the Class of 2028. All earlier classes will continue to operate with the previously-existing guidelines. Please see the chart below for the graduation requirements applicable to your class.

Classes of 2025-27 Requirements Incoming Seniors, Juniors, Sophomores	Content Area	Class of 2028 Requirements Incoming Freshmen
<p><b>4</b></p> <p>ELA 1      1.0 unit            ELA 2      1.0 unit            ELA 3      1.0 unit            ELA 4      1.0 unit</p>	ELA	<p><b>3.5</b></p> <p>ELA 1      1.0 unit            ELA 2      1.0 unit            ELA 3      1.0 unit            ELA 4      0.5 unit</p>
<p><b>0</b></p> <p>Not a graduation requirement</p>	Communications (e.g. Speech, Debate, Journalism)	<p><b>0.5</b></p> <p><i>Any <b>one</b> of the following:</i></p> <p>Communications            Competitive Speech and Drama            Novice Debate            21st Century Journalism</p>



<b>3</b> World Regional Studies 1.0 unit United States History 1.0 unit American Government 0.5 unit Social Studies Elective 0.5 unit	<b>Social Studies</b>	<b>3</b> World Regional Studies 1.0 unit United States History 1.0 unit American Government 0.5 unit Social Studies Elective 0.5 unit
<b>1</b> <i>See the following section for a description of courses that meet this requirement.</i>	<b>Fine Arts</b>	<b>1</b> <i>See the following section for a description of courses that meet this requirement.</i>
<b>3</b>	<b>Mathematics</b>	<b>3</b>
<b>3</b> 1 unit of Biological Science and 1 unit of Physical Science  1 unit must be a laboratory science	<b>Science</b>	<b>3</b> 1 unit of Biological Science and 1 unit of Physical Science  1 unit must be a laboratory science
<b>0</b> Not a graduation requirement	<b>STEM (e.g. Advanced Math and Science, Robotics, Technology, Agriculture)</b>	<b>1</b> <i>See the following section for a description of courses that meet this requirement.</i>
<b>1</b> Physical Education 1 unit <i>(One year of Citizenship/Leadership Development NS = 0.5 credit of PE)</i>	<b>Physical Education</b>	<b>0.5</b> Physical Education 0.5 unit <i>(One year of Citizenship/Leadership Development NS = 0.5 credit of PE)</i>
<b>0.5</b>	<b>Health</b>	<b>0.5</b>
<b>0.5</b>	<b>Financial Literacy</b>	<b>0.5</b>
<b>7.5</b>	<b>Electives</b>	<b>7 (tied to Individual Plan of Study)</b>
Encouraged, but not required	<b>Post Secondary Assets (skills, knowledge, and experiences outside classroom)</b>	<b>2 (not counted toward units)</b> <i>See the following section for a description of activities that meet this requirement.</i>
<b>Strongly Encouraged</b>	<b>Free Application for Federal Student Aid (FAFSA)</b>	<b>Strongly Encouraged</b>
<b>23.5</b>	<b>Graduation Requirement Total</b>	<b>23.5</b>

### 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

Furniture and Cabinetry Fabrication  
Welding 1 & 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

### 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 fine arts.

### Physical Education

Dance

## STEM Courses

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

### Visual and Performing Arts

Music Technology  
Advanced Video Production  
Yearbook - Digital Production  
News Media - Digital Production  
Photo - Digital Production  
Web Design  
Digital Design  
Digital Photo  
Digital Design Studio  
Graphic Design-Art  
Graphic Design Project Management

### Math (after 3rd Math Credit)

Precalculus H  
Calculus AB/BC  
CAT (College Algebra)  
Calculus 3/Diff Equations  
AP Stats  
Introduction to Data Science

### Science (after 3rd Science Credit)

Chemistry  
Honors Chemistry  
AP Chemistry 2  
Earth Space

Physics 1  
Biology AP  
Physics AP 1 or 2  
Environmental Science 1 & 2  
AP Environmental Science  
Human Anatomy and Physiology  
Forensic Science 1 and 2  
Global Issues in Science 1 & 2  
Zoology

### Computer Science

Computer Science Principles  
Computer Science A AP  
Advanced Programming Concepts  
Cybersecurity (PLTW)

### Signature Programs

*Animation & Game Design Courses*  
2D Animation and Motion Graphics 1  
2D Animation and Motion Graphics 2  
3D Modeling and Animation 1  
3D Modeling and Animation 2  
Game Design and Development 1  
Game Design and Development 2

*Health Science Courses*  
Medical Health Science

Applied Medical Science  
Clinical Investigations  
Certified Nursing  
Sports Medicine Clinical Investigations

*Biotechnology*  
Biotech 1/SOP  
DNA & Proteins  
Agriculture & Pharmaceutical  
Plant & Soil Science  
Biotech Research

*Engineering (PLTW)*  
Intro to Engineering Design  
Principles of Engineering  
Civil/Architectural  
Aerospace  
Digital Electronics  
Cybersecurity  
Robotics  
Engineering Design & Development  
Adv. Concepts in CAD  
Environmental Sustainability

### International Baccalaureate

*IB courses in Math*

IB Math Analysis & Approaches SL1

IB Math SL2

IB Math Analysis & Approaches HL1

IB Math HL 2

*IB courses in Science*

IB Physics

IB Astronomy

IB Chemistry

IB Biology

IB Computer Science

### Independent Study

Could qualify depending on the Independent Study. Talk to your counselor.

## Post Secondary Assets (Any two)

- Youth Apprenticeships
- 40 or more Community Service hours
- Client-centered Projects
- Workplace learning experience directly related to a student Individual Plan of Study
- Industry-Recognized Certifications
- Seal of Biliteracy
- ACT Composite (Score of 21 or higher)
- WorkKeys Level (Silver or higher)
- 9+ College hours
- State Assessment scores of 3 or 4 for Math, ELA, Science (demonstrating College Readiness)
- ASVAB per requirements of military branch selected
- SAT score (1200 or higher)
- Completing Board of Regents Curriculum
- International Baccalaureate Exam (4+)
- Advanced Placement Exam (3+)
- CTE Scholar
- Eagle Scout or Gold Scout
- 4-H Kansas Key Award
- Two or more high school athletics/activities
- JROTC
- 90% attendance in high school
- Senior Exit Interview/Senior Projects

## 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 and 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, B, or C was earned.

### **Credit by Examination**

A student may earn credits towards high school graduation by demonstrating mastery of the course outcomes through a performance instrument. The standards for designing and passing the performance instrument shall be set sufficiently high to ensure credits earned by such a means shall be equivalent to those offered in the framework of the Carnegie unit. This performance instrument must be reviewed and approved by the district's 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. Credit by examination will not be allowed for courses in which the student was previously enrolled.

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 by examination can only be taken for courses at or above the current course level.

## 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. Concurrently enrolled students may enroll in a course from an outside institution with prior administration approval, in consultation with a school counselor, and consistent with Board policy IIBGB. Once a grade is submitted for an approved class from the outside institution, it will be placed on the transcript and not altered or removed. Only courses for which there is a Shawnee Mission Honors equivalent will be considered for Honors credit. The stipulations outlined above will be applied. Students can apply a maximum of three credits from online courses to their SMSD transcript from outside 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 assigned.
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
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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	
<b>TOTAL</b>	<b>17.5</b>		<b>55.5</b>

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

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

\* Courses that are awarded other letters such as P 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.

## 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:

**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 (2023-2024). 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 <b>OR</b> 2.25 GPA
Fort Hays State	21 ACT <b>OR</b> 2.25 GPA
Kansas State	21 ACT <b>OR</b> 3.25 GPA
Pittsburg State	21 ACT <b>OR</b> 2.25 GPA
University of Kansas	3.25 GPA <b>OR</b> 21 ACT WITH 2.00 GPA
Wichita State	21 ACT <b>OR</b> 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

In order to be eligible to be named a Kansas Scholar, students must meet the following criteria:

- Students must have taken the ACT between April of the sophomore year and December of the senior year.
- Students must be a Kansas resident.
- Students must have their curriculum and 7th semester GPA certified on the official roster by the high school counselor, registrar, or similar official.
- Students must complete the following curriculum requirements.

**English - 4 years** One unit to be taken each year. Must include substantial recurrent practice in writing extensive and structured papers, extensive reading of significant literature, and significant experience in speaking and listening.

**Mathematics - 4 years** Integrated Algebra / Geometry, Algebra II, and one unit of advanced mathematics-- suggested courses include: Analytic Geometry, Trigonometry, Advanced Algebra, Probability and Statistics, Functions or Calculus. Completion of Algebra I in 8th grade is acceptable; the student would then only need three years of math in high school.

**Science - 3 years** One year each in Biology, Chemistry, and Physics, each of which include an average of one laboratory period a week. Applied/technical courses may not substitute for a unit of natural science credit.

**Social Studies - 3 years** One unit of U.S. History; minimum of one-half unit of U.S. Government and minimum of one-half unit selected from: World History, World Geography or International Relations; and one unit selected from: Psychology, Economics, U.S. Government, U.S. History, Current Social Issues, Sociology, Anthropology, and Race and Ethnic Group Relations. Half unit courses may be combined to make this a whole unit.

**World Language - 2 years** Two years of one language. Latin and Sign Language are accepted.

State Scholars may receive up to \$1,000 annually for up to four undergraduate years (five, if enrolled in a designated five-year program), based on financial need and the availability of State funds. Financial need is measured by federal methodology using data submitted on the FAFSA. For more information, see

[https://www.kansasregents.org/students/student\\_financial\\_aid/kansas\\_scholars\\_curriculum](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](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), Baker University, and Wichita State 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. College or 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: <https://www.jccc.edu/admissions/early-college/sb-155.html>

**For Baker University:**

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

**For Wichita State:** <https://www.wichita.edu/admissions/undergraduate/concurrent.php>

JCCC, Baker University, and Wichita State 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 sophomores, 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](http://www.smsd.org).

<a href="#">Biotechnology</a>	CAA
<a href="#">Culinary Arts &amp; Hospitality</a>	CAA and High Schools
<a href="#">Game Design &amp; Animation</a>	CAA
<a href="#">Engineering – Project Lead the Way</a>	CAA and High Schools
<a href="#">International Baccalaureate</a>	SM East and SM Northwest
<a href="#">Medical Health Science</a>	CAA
<a href="#">Project Blue Eagle (Fire, EMS, Law Enf)</a>	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
<b>TOTAL CORE UNITS REQUIRED</b>	<b>16 units</b>	<b>16 units</b>

### 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](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](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](http://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:

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



*prescribed by law, families may use alternative procedures to meet immunization requirements. Information about alternative procedures can be obtained from the school nurse.*

Here is some additional information about the district health guidelines:

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 staff notification of parents, if leaving school, sign out in the office.
3. By district policy, all medications must be dispensed from the nurse's office during the school day. Medication must be in the original, properly labeled container. School nurses, by law, cannot accept or distribute medications from any other type of container, such as a plastic bag. The medication must be accompanied by a note from the parent/guardian giving instructions about dosage, reason for administering, time to be given, how long the medication should be administered at school, and if there are any side effects of which the nurse should be aware. The permission forms are available from the school nurse or on the district health services web page 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 diabetic, asthma, or anaphylaxis prevention medications. However, these medications may be carried only with written permission from parents or guardian and physician and in 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 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](http://www.smsd.org) (see policy [JBC](#) and/or [JBCB](#) and/or [JBCD](#)).

## **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.
7670	Ceramics	Course cost is \$30.00.*
7696	Dark Room Photography	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.*
7603	Professional Art Practices	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, Automotive 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.
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.

6908	Woodworking Principles	Course cost determined by projects chosen by student.
6905	Furniture and Cabinetry Fabrication	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	DNA and Protein Diagnostics (H)	Course cost is \$30.00.
4145	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	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.

## Abbreviations Used for Graduation Requirements

In the following pages, you will find short “at-a-glance” summaries of courses within each content area, followed by more detailed course descriptions. The summary pages will give you the following information

- Course names
- The number of units (credits) for each course
- Which grade levels are eligible to enroll
- What graduation requirements (if any) each course fulfills
- Whether each course has a prerequisite
- If the courses have weighted grades
- NCAA Eligibility Center status
- If a course is repeatable for credit
- Course costs, if any

For purposes of reporting the graduation requirements, we will utilize the following abbreviations:

Abbreviation	Graduation Requirement Content Area
A	Fine Arts
C	Communications
ELA	English Language Arts
F	Financial Literacy
H	Health
M	Mathematics
P	Physical Education
SC	Science
SS	Social Studies
ST	STEM
	Courses with nothing marked under the graduation requirement column are available for elective credit.

# Automotive Technology

## Automotive Technology 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		✓	✓	✓						varies
Automotive Technology 2, 2 hr block per sem or 1 hr block for full year	1.0			✓	✓		✓				varies
Automotive Technology 3, 2 hr block per sem or 1 hr block for full year	1.0			✓	✓		✓				varies

### 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

# Automotive Technology

## **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.



# Business

## Business Course Offerings At-a-Glance

	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Accounting	1.0		✓	✓	✓						
Applied Business Development	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	✓	✓	✓	✓	A,ST					
Digital Design Studio	1.0		✓	✓	✓	A,ST					
Digital Design Project Management	1.0			✓	✓		✓			✓	
Entrepreneurship	0.5		✓	✓	✓						
Financial Literacy	0.5		✓	✓	✓	F					
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		✓	✓	✓	A,ST					

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# Business

## **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.

## **APPLIED BUSINESS DEVELOPMENT 6948**

1 unit 11,12

*Prerequisite – Entrepreneurship or Teacher Recommendation*

Applied Business Development students will practice skills of planning, organizing, directing and controlling functions of operating a business while assuming the responsibilities and risk involved. Students will develop skills in enterprise development, market analysis and financial preparation.

## **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 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.

## **BUSINESS MANAGEMENT 6031**

1/2 unit 9,10,11,12

*Prerequisite – None*

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

## **DIGITAL DESIGN 6010**

1/2 unit 9,10,11,12

*Prerequisite – None*

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

## **DIGITAL DESIGN STUDIO 6011**

1 unit 10,11,12

*Prerequisite – None*

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

## **DIGITAL DESIGN PROJECT MANAGEMENT 6012**

1 unit 11,12

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

# Business

## ENTREPRENEURSHIP

**6947**

1/2 unit

10,11,12

*Prerequisite – None*

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

## FINANCIAL LITERACY

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

## INTRODUCTION TO BUSINESS

**6030**

1/2 unit

9,10,11,12

*Prerequisite – None*

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

## INVESTING

**6039**

1/2 unit

10,11,12

*Prerequisite – Intro to Business OR Financial Literacy*

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.

## MARKETING PRINCIPLES

**6943**

1 unit

10,11,12

*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 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.

# Business

## **WEB DESIGN**

*1 unit*

*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

**6084**

*10,11,12*

may be applied toward the minimum fine arts graduation requirement. Course may qualify for JCCC advanced standing credit. This course can count for the STEM graduation requirement.

**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			✓	✓	ST	✓	✓			
Computer Applications	0.5	✓	✓	✓	✓						
Computer Science A AP	1.0		✓	✓	✓	ST	✓	✓			
Computer Science Independent Study	0.5		✓	✓	✓		✓			✓	
Computer Science Principles (CSP) H	1.0	✓	✓	✓	✓	ST		✓			
Computer Science Professional Learning Experience H	0.5			✓	✓		✓	✓		✓	
Cybersecurity H (CAA) (2 hr block per sem)	1.0		✓	✓	✓	ST		✓			
Introduction to Computer Programming	0.5	✓	✓	✓	✓		✓				

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# Computer Science (Information Technology)

## **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. This course can count for the STEM graduation requirement.

## **COMPUTER APPLICATIONS 6136**

1/2 unit

9,10,11,12

*Prerequisite – None*

Students acquire knowledge of and experience in the proper and efficient use of previously written software packages. These courses explore a wide range of applications, including (but not limited to) word-processing, spreadsheet, graphics, and database programs, and they may also cover the use of electronic mail and desktop publishing. This course is not recommended for students who have completed Computer Dimensions 1 and 2 in middle school.

## **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). This course can count for the STEM graduation requirement.

## **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). This course can count for the STEM graduation requirement.

## **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. This course can count for the STEM graduation requirement.

## **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 focused on computer programming fundamentals. Students will receive an overview of current topics in computer science such as the capabilities of different programming languages and the significance of computer programming in today's society. Introduction to Computer Programming is not a prerequisite for 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		✓	✓	✓	A	✓				varies
Computer-Aided Architectural Design 2	1.0			✓	✓	A	✓				varies
Computer-Aided Industrial Design	1.0		✓	✓	✓	A	✓				varies
Introduction to Computer-Aided Design	1.0	✓	✓	✓	✓	A					varies

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# Construction and Design

## **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
21st Century Journalism	0.5	✓	✓	✓	✓	C					
Editorial Leadership - Newspaper	1.0		✓	✓	✓		✓			✓	
Editorial Leadership - Yearbook	1.0		✓	✓	✓		✓			✓	
News Media - Digital Production	1.0	✓	✓	✓	✓	A,ST	✓			✓	
Public Relations & Media	0.5			✓	✓		✓			✓	
Photo - Digital Production	0.5	✓	✓	✓	✓	A,ST	✓			✓	\$25
Video Production 1	0.5	✓	✓	✓	✓						\$25
Video Production 2	0.5	✓	✓	✓	✓	A	✓			✓	\$25
Video Production, Advanced	1.0			✓	✓	A,ST	✓			✓	\$25
Video Production Leadership	1.0			✓	✓		✓			✓	
Yearbook - Digital Production	1.0	✓	✓	✓	✓	A,ST	✓			✓	

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ST = STEM

# Digital Media

## **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. This course fulfills the communications graduation requirement.

## **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. This course can count for the STEM graduation requirement.

## **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. This course can count for the STEM graduation requirement.

## **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 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

# Digital Media

the minimum fine arts graduation requirement. This course can count for the STEM 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. This course can count for the STEM graduation requirement.

**Note:** Additional courses in the Digital Media Pathways can be found in [Fine Arts - Visual](#) (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		✓	✓	✓	A	✓			✓	
Communications	0.5	✓	✓	✓	✓						
Competitive Speech & Drama, Beginning	0.5	✓	✓	✓	✓	A,C					\$25
Competitive Speech & Drama, Advanced	0.5	✓	✓	✓	✓	A	✓			✓	\$25
Contemporary Communications (CAA) (CTC)	0.5			✓	✓	ELA	✓			✓	
Debate, Novice	0.5	✓	✓	✓	✓	C					\$25
Debate, Advanced H	0.5	✓	✓	✓	✓		✓	✓		✓	\$25
Directed Reading	0.5	✓	✓	✓	✓		✓				
ELA 1	1.0	✓				ELA			✓		
ELA 1 H	1.0	✓				ELA		✓	✓		
ELA 2	1.0		✓			ELA	✓		✓		
ELA 2 H	1.0		✓			ELA	✓	✓	✓		
ELA 3	1.0			✓		ELA	✓		✓		
English Language and Composition AP	1.0			✓		ELA	✓	✓	✓		
ELA 4	1.0				✓	ELA	✓		✓		
English Literature and Composition AP	1.0				✓	ELA	✓	✓	✓		
ELA 4 College Now Honors	1.0				✓	ELA	✓	✓	✓		
Introduction to Theater	1.0	✓	✓	✓	✓						varies
Language Arts Independent Study	1.0	✓	✓	✓	✓		✓			✓	
Mock Trial	0.5	✓	✓	✓	✓					✓	
Reading Expeditions	0.5	✓	✓	✓	✓						
Repertory Theatre	1.0			✓	✓	A	✓			✓	
Repertory Theatre, Advanced	1.0				✓	A	✓				
Strategic ELA	1.0	✓	✓	✓	✓	ELA	✓				



# English Language Arts (ELA)

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

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# English Language Arts (ELA)

For International Baccalaureate courses, please see the [IB section](#) under Signature Programs.

## **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.

## **COMMUNICATIONS 1060**

1/2 unit 9,10,11,12

*Prerequisite – None*

Students explore the basics of presentation skills and develop confidence and comfort with speaking to address a variety of authentic audiences. The interactive activities in this course are designed to promote student resilience and self-advocacy in future coursework and careers. These activities will include a foundational experience in real world learning, interpersonal communication, expository speeches using multimedia and visual aids, persuasive speeches citing research over a topic of their choice, and oral interpretation of literature to promote oral language fluency and prosody. This course fulfills the communications 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. This course fulfills the communications 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. This course fulfills the communications graduation requirement.

## **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

# English Language Arts (ELA)

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.

**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.

**ENGLISH LANGUAGE AND COMPOSITION AP** **1153**  
*1 unit* *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.

**ENGLISH LITERATURE AND COMPOSITION AP** **1630**  
*1 unit* *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.

# English Language Arts (ELA)

## 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. Please note that students are responsible for the application, enrollment, and tuition to JCCC.

includes explicit, cumulative, and systematic instruction based on student needs. Course programming is designed to address phonemic awareness, phonics, decoding, and language and vocabulary development, and reading fluency in order to support student growth to meet the demands of academic reading and the state and district reading standards.

## 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.

## 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.

## 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.

## 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.

## 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.

## STRATEGIC ELA

1510

1 Unit

9,10,11,12

*Prerequisite – IEP team recommendation*

The consideration of a core replacement course is made by the IEP team on an individual basis. A comprehensive core replacement course is considered only if the student's IEP goals cannot be met after adapting the core and supplemental curriculum and through providing accommodations/modifications/supplementary aids and services. The goal of a comprehensive core replacement course is to provide direct and explicit instruction on ELA Priority Standards in such a way as to accelerate the student's progress. The credit in this course may be applied toward the minimum graduation requirements for English Language Arts.

## READING EXPEDITIONS

1532

1/2 unit

9,10,11,12

*Prerequisite – Team recommendation based on reading data*

This course is designed for any student for whom data indicates severe gaps in foundational reading skills such as decoding, reading fluency, and phonics. This course

## 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



# English Language Arts (ELA)

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. 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 student's IEP team. This course is designed to provide direct and explicit instruction based on the Essential Elements Standards. The credit in this course may be applied toward the minimum graduation requirements for 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

General Courses	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		✓	✓	✓	F					
Nutrition and Wellness	0.5		✓	✓	✓						\$20
Introductory Culinary Arts	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Focus on Foods	0.5	✓	✓	✓	✓						\$20
Foods, Advanced	0.5		✓	✓	✓	A	✓				\$20
Foods, International	0.5		✓	✓	✓	A	✓				\$20
Fashion Apparel, Interior Design	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Apparel Production 1	0.5	✓	✓	✓	✓	A	✓				varies
Apparel Production 2	0.5		✓	✓	✓	A	✓				varies
Fashion, Apparel and Interior Design Essentials	0.5	✓	✓	✓	✓	A					\$10
Fashion, Apparel and Interior Design Studio	1.0			✓	✓	A	✓			✓	\$20
Fashion Merchandising	0.5		✓	✓	✓	A	✓				
Interior Design	0.5		✓	✓	✓	A	✓				\$10

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G = Meets a Graduation Requirement

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NCAA = Meets NCAA Eligibility Requirements

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A = Fine Arts

F = Financial Literacy

# Family and Consumer Science

## 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.

## 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

# Family and Consumer Science

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**

1/2 unit

**6383**

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)**

1 unit

**6313**

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**

1/2 unit

**6310**

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**

1/2 unit

**6312**

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.

# Fine Arts - Performing

## Fine Arts - Performing Course Offerings At-a-Glance

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

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A = Fine Arts

ST = STEM



# Fine Arts - Performing

## BAND

<b>Band</b>	<b>7188</b>
<b>Concert</b>	<b>7195</b>
<b>Freshman</b>	<b>7196</b>
<b>Marching</b>	<b>7197</b>
<b>Symphonic</b>	<b>7198</b>
<b>Wind Ensemble</b>	<b>7199</b>

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

<b>Choir</b>	<b>7116</b>
<b>A Cappella</b>	<b>7117</b>
<b>Men</b>	<b>7119</b>
<b>Women</b>	<b>7120</b>

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.

# Fine Arts - Performing

## **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. This course can count for the STEM graduation requirement.

## **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*

Enrollment in the course is determined by the student's IEP team. This course is designed to provide direct and explicit instruction based on the Essential Elements Standards. The credit in this course may be applied toward graduation requirements.

# Fine Arts - Visual

## Fine Arts - Visual Course Offerings At-a-Glance

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

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G = Meets a Graduation Requirement

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A = Fine Arts

ST = STEM

# Fine Arts - Visual

**For International Baccalaureate courses, please see the [IB section](#) under Signature Programs.**

**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.

**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.

**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. This course can count for the STEM graduation requirement.

**DRAWING 1** **7645**  
1/2 unit 9,10,11,12  
*Prerequisite – Introduction to Studio Art*

Students will explore both traditional and non-traditional drawing techniques and materials in a studio setting. This course includes observational experiences in drawing subject matter taken from nature, the figure, man-made objects, and also incorporates print-making processes. This course is recommended to be taken early in the art student's enrollment because of the importance rendering skills play in project development in all other art courses. Course cost is \$30.00. Additional fees may be assessed based on the materials/media chosen by the student.

**DRAWING 2** **7649**  
1/2 unit 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** **7627**  
1/2 unit 9,10,11,12  
*Prerequisite – Introduction to Studio Art*

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

# Fine Arts - Visual

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. This course can count for the STEM graduation requirement.

## **GRAPHIC DESIGN - PROJECT MANAGEMENT 7628**

1 unit 10,11,12

*Prerequisite – Graphic Design - Art AND Teacher recommendation*

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. This course can count for the STEM graduation requirement.

## **INTRODUCTION TO STUDIO ART 7536**

1/2 unit 9,10,11,12

*Prerequisite – None*

Introduction to Studio Art is the prerequisite for all other art courses offered in Shawnee Mission. This drawing/design-based course functions as an introduction to the elements of art and the principles of design within the confines of a studio environment. Course cost is \$30.00. Additional fees may be assessed based on the materials/media chosen by the student.

## **JEWELRY/SCULPTURE STUDIO 7683**

1/2 unit 9,10,11,12

*Prerequisite – Introduction to Studio Art*

A wide variety of materials (metal, wood, textiles, clay, plaster, stone, and found/recycled objects) may be utilized in the fabrication of three-dimensional wearable and non-wearable ornamental objects. This course will employ additive, subtractive, and experimental construction processes. Emphasis will be placed on the study of sculptural art objects, both past and present. Course cost is \$30.00. Additional fees may be assessed based on the materials/media chosen by the student.

## **PAINTING 7650**

1/2 unit 9,10,11,12

*Prerequisite – Introduction to Studio Art*

Painting covers the history, development, and techniques involved in working with transparent and opaque media. Students will become proficient in media applications, knowledge of media characteristics, and presentation of finished work. Individualistic style is encouraged in interpreting subject matter including still-life, figure study, landscape, and abstraction. Course cost is \$ 30.00. Additional fees may be assessed based on the materials/media chosen by the student.

## **PROFESSIONAL ART PRACTICES 7603**

1 unit 11,12

*Prerequisite – Introduction to Studio Art and teacher recommendation*

Students who are interested in furthering their art experiences beyond high school will explore a wide variety of professions in and related to the visual arts. Professional practices will happen within schools, especially in designated building art gallery spaces, which will showcase 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 will 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.

## **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.



# Manufacturing

## Manufacturing Course Offerings At-a-Glance

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

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# Manufacturing

## **FURNITURE AND CABINETRY FABRICATION 6905**

1 unit 10,11,12

*Prerequisite – Woodworking Principles/Woods 1*

This is an application course designed to provide students with experience in constructing cases, cabinets, counters, furniture and interior woodwork. Students will work with CNC equipment, composite panel products, and veneering, and the processes involved with fabricating goods with these technologies. 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. Course may be repeated for credit.

## **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.

## **WOODWORKING PRINCIPLES 6908**

1 unit 9,10,11,12

*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.

# Mathematics

## Mathematics Course Offerings At-a-Glance

	Units	9	10	11	12	G	P	W	NCAA	R	Cost
Algebra 1	1.0	✓	✓	✓	✓	M			✓		Calc
Algebra 2	1.0	✓	✓	✓	✓	M	✓		✓		Calc
Algebra 2 H	1.0	✓	✓	✓	✓	M	✓	✓	✓		Calc
Calculus AB AP	1.0		✓	✓	✓	M,ST	✓	✓	✓		Calc
Calculus BC AP	1.0		✓	✓	✓	M,ST	✓	✓	✓		Calc
Calculus 3 H	0.5			✓	✓	M,ST	✓	✓	✓		Calc
College Algebra	1.0			✓	✓	M,ST	✓				Calc
College Algebra / Trig	1.0		✓	✓	✓	M,ST	✓		✓		Calc
Consumer Math and Finance	1.0			✓	✓	M	✓				Calc
Differential Equations H	0.5				✓	M	✓	✓	✓		Calc
ELL Mathematics Extension	0.5	✓	✓	✓	✓	M	✓			✓	
Geometry	1.0	✓	✓	✓	✓	M	✓		✓		Calc
Geometry H	1.0	✓	✓	✓	✓	M	✓	✓	✓		Calc
Intermediate Algebra	1.0		✓	✓	✓	M	✓				Calc
Integrated Algebra/Geometry 1	1.0	✓	✓			M			✓		Calc
Integrated Algebra/Geometry 2	1.0		✓	✓	✓	M	✓		✓		Calc
Introduction to Data Science	1.0			✓	✓	M,ST	✓				Calc
Mathematics Extension	0.5	✓	✓	✓	✓	M	✓			✓	Calc
Mathematics - Independent Study	0.5	✓	✓	✓	✓	M	✓			✓	Calc

# Mathematics

Precalculus H	1.0	✓	✓	✓	✓	M,ST	✓	✓	✓		Calc
SAT/ACT Preparation	0.5		✓	✓	✓						Calc
Statistics AP	1.0		✓	✓	✓	M,ST	✓	✓	✓		Calc
Strategic Math	1.0	✓	✓	✓	✓	M	✓				Calc
Individual Goals - Math	0.5-1.0	✓	✓	✓	✓	M	✓				Calc
	<b>Units</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>G</b>	<b>P</b>	<b>W</b>	<b>NCAA</b>	<b>R</b>	<b>Cost</b>

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M = Mathematics    ST = STEM

# Mathematics

For International Baccalaureate courses, please see the [IB section](#) under Signature Programs.

## 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 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.

### CALCULUS AB AP 2161

1 unit 10,11,12

*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). This course can count for the STEM graduation requirement.

### CALCULUS BC AP 2162

1 unit 10,11,12

*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). This course can count for the STEM graduation requirement.

### CALCULUS 3 H 2202

1/2 unit 11,12

*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. This course can count for the STEM graduation requirement.

### COLLEGE ALGEBRA 2153

1 unit 11,12

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

This course focuses on the study of functions and their graphs, techniques of solving equations and applications. Students will analyze and graph non-functions, including constant, linear, quadratic, piecewise-defined, absolute value, square root, polynomial, rational, exponential, and logarithmic functions: solve equations, including polynomial, absolute value, radical, rational, exponential, logarithmic, and systems of linear equations; solve inequalities, including absolute value, polynomial, rational, and systems of linear inequalities; and apply functions in real-world situations. Students may earn JCCC credit. This course can count for the STEM graduation requirement.

### COLLEGE ALGEBRA / TRIG 2152

1 unit 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 conic. This course will prepare students for Calculus AP AP. This course may qualify for JCCC Quick Step Plus credit. This course can count for the STEM graduation requirement. This course will be phased out after the 2024-25 school year.



# Mathematics

## CONSUMER MATH AND FINANCE

2195

1 unit

11,12

*Prerequisite – IAG2 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.

## 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.

## 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

9,10

*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

10,11,12

*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.

## INTRODUCTION TO DATA SCIENCE

2250

1 unit

11,12

*Prerequisite – Integrated Algebra / Geometry 2 OR Geometry*

Introduction to Data Science (IDS) is a course designed to introduce students to the exciting opportunities available at the intersection of data analysis, computing, and mathematics taught through hands-on activities. Students use their personal mobile devices and web services to collect data that is interesting and important to them to explore different aspects of their world. Students engage in all stages of the statistical process: asking questions, examining and collecting data, analyzing data using coding in RStudio, and interpreting data. This course allows students to gain access to emerging fields that include Computational Data Analysis and prepares students with quantitative critical thinking skills, making them more informed participants in our modern world. This course can count for the STEM graduation requirement.

## 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

# Mathematics

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 9,10,11,12

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

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). This course can count for the STEM graduation requirement.

**SAT/ACT 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.

**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 the 1/2 credit Statistics course. Students enrolling in the course may qualify for JCCC credit (College Now). This course can count for the STEM graduation requirement.

**STRATEGIC MATH** **2240**  
1 Unit 9,10,11,12

*Prerequisite – IEP team recommendation*

The consideration of a core replacement course is made by the IEP team on an individual basis. A comprehensive core replacement course is considered only if the student’s IEP goals cannot be met after adapting the core and supplemental curriculum and through providing accommodations/modifications/supplementary aids and services. The goal of a comprehensive core replacement course is to provide direct and explicit instruction on Math Priority Standards in such a way as to accelerate the student’s progress. The credit in this course may be applied toward the minimum graduation requirements for Math.

**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 student’s IEP team. This course is designed to provide direct and explicit instruction based on the Essential Elements Standards. The credit in this course may be applied toward the minimum graduation requirements for Math.

# 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 Strength and Conditioning (formerly Advanced Weights)	0.5	✓	✓	✓	✓	P	✓			✓	
Dance	0.5	✓	✓	✓	✓	P,A				✓	
Dual and Individual Sports	0.5	✓	✓	✓	✓	P				✓	
Fitness for Life 1	0.5	✓	✓	✓	✓	P					
Fitness for Life 2	0.5	✓	✓	✓	✓	P	✓				
Health Education 1	0.5	✓	✓	✓	✓	H					
Health Education 2	0.5	✓	✓	✓	✓		✓				
Individual Fitness	0.5	✓	✓	✓	✓	P				✓	
Personalized Physical Education	0.5	✓	✓	✓	✓	P					
Physical Education Concepts	0.5	✓	✓	✓	✓	P				✓	
Public Safety Physical Education	1.0			✓	✓	P	✓				
Strength and Conditioning (formerly Weights)	0.5	✓	✓	✓	✓	P				✓	
Team Games	0.5		✓	✓	✓	P				✓	
Individual Goals - Health	0.5	✓	✓	✓	✓	P	✓				

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H = Health

P = Physical Education

# Physical Education and Health

## **ADVANCED STRENGTH AND CONDITIONING 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. Formerly known as Advanced Weights.

## **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

## **PUBLIC SAFETY PHYSICAL EDUCATION**

**8250**

1 unit

11,12

*Prerequisite – Must also be enrolled in Fire Science, Law Enforcement, or EMS*

This course is designed to assist students enrolled in public safety courses maintain a healthy lifestyle and prepare for the [CPAT certification test](#).

## **STRENGTH AND CONDITIONING**

**8256 / 8257(G)**

1/2 unit

9,10,11,12

*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. Formerly known as Weights.

(G) Designates course for girls only

## **TEAM GAMES**

**8230**

1/2 unit

10,11,12

*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.

## **INDIVIDUAL GOALS - HEALTH**

**0502**

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 direct and explicit instruction based on the Essential Elements Standards. The credit in this course may be applied toward graduation requirements.



# Science

## Science Course Offerings At-a-Glance

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

# Science

Physics 2 AP H	1.0			✓	✓	SC,ST	✓	✓	✓		
Science - Independent Study	0.5	✓	✓	✓	✓	SC	✓			✓	
Zoology	0.5			✓	✓	SC,ST	✓		✓		\$10
Individual Goals - Science	1.0	✓	✓	✓	✓	SC	✓				
	<b>Units</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>G</b>	<b>P</b>	<b>W</b>	<b>NCAA</b>	<b>R</b>	<b>Cost</b>

## 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

SC = Science      ST = STEM

# Science

For International Baccalaureate courses, please see the [IB section](#) under Signature Programs.

## **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. This course can count for the STEM graduation requirement. 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. This course can count for the STEM graduation requirement. 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. This course can count for the STEM graduation requirement. 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. This course can count for the STEM graduation requirement. 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. This course can count for the STEM graduation requirement. Course fee will not exceed \$3.00.

# Science

## 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. This course can count for the STEM graduation requirement. Course cost is \$3.

## 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. This course can count for the STEM graduation requirement.

## 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). This course can count for the STEM graduation requirement.

## 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. This course can count for the STEM graduation requirement. 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. This course can count for the STEM graduation requirement. 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. This course can count for the STEM graduation requirement.

## 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. This course can count for the STEM graduation requirement.

## 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. This course can count for the STEM graduation requirement. Course cost is \$15.00.

# Science

## 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 different perspectives, and develop their logical abstract thinking skills. This course can count for the STEM graduation requirement.

## 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. This course can count for the STEM graduation requirement.

## 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. This course can count for the STEM graduation requirement.

## 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. This course can count for the STEM graduation requirement. 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 student's IEP team. This course is designed to provide direct and explicit instruction based on the Essential Elements Standards. The credit in this course may be applied toward the minimum graduation requirements for 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				✓	SS			✓		
American Government H/IB	0.5				✓	SS	✓	✓	✓		
Applications in Law	1.0				✓	SS	✓				
Economics 1	0.5		✓	✓	✓	SS			✓		
European History AP	1.0		✓	✓	✓	SS		✓	✓		
International Relations	0.5		✓	✓	✓	SS			✓		
Macroeconomics AP	0.5		✓	✓	✓	SS	✓	✓	✓		
Microeconomics AP	0.5		✓	✓	✓	SS	✓	✓	✓		
Modern World History	1.0		✓	✓	✓	SS			✓		
Practical Law	0.5		✓	✓	✓	SS			✓		
Psychology 1	0.5		✓	✓	✓	SS			✓		
Psychology 2	0.5			✓	✓	SS	✓		✓		
Psychology AP	1.0			✓	✓	SS		✓	✓		
Sociology 1	0.5			✓	✓	SS			✓		
Sociology 2	0.5			✓	✓	SS	✓		✓		
Social Studies - Independent Study	0.5-1.0	✓	✓	✓	✓	SS	✓				
United States Government and Politics AP	1.0				✓	SS		✓	✓		
United States History	1.0			✓	✓	SS			✓		
United States History AP	1.0			✓	✓	SS		✓	✓		

# Social Studies

World Regional Studies	1.0	✓				SS			✓		
World Regional Studies H	1.0	✓				SS		✓	✓		
Individual Goals - Social Studies	0.5-1.0	✓	✓	✓	✓	SS	✓				
	<b>Units</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>G</b>	<b>P</b>	<b>W</b>	<b>NCAA</b>	<b>R</b>	<b>Cost</b>

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SS = Social Studies

# Social Studies

For International Baccalaureate courses, please see the [IB section](#) under Signature Programs.

**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.

# Social Studies

## **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.

## **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.

# Social Studies

## **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 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 student's IEP team. This course is designed to provide direct and explicit instruction based on the Essential Elements Standards. The credit in this course may be applied toward the minimum graduation requirements for 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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NCAA = Meets NCAA Eligibility Requirements

R = Can Be Repeated for Credit

# Teacher Education

## **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.

## **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.

## **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. 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				✓		✓	✓	✓		
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	✓	✓	✓	✓				✓		
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				✓		✓	✓	✓		

# World Language

Mandarin Chinese 1 (SME)	1.0	✓	✓	✓	✓				✓		
Mandarin Chinese 2 (SME)	1.0		✓	✓	✓		✓		✓		
Mandarin Chinese 3 (SME)	1.0			✓	✓		✓		✓		
Mandarin Chinese 4 H (SME)	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	✓	✓	✓	✓					✓	
	<b>Units</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>G</b>	<b>P</b>	<b>W</b>	<b>NCAA</b>	<b>R</b>	<b>Cost</b>

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# World Language

For International Baccalaureate courses, please see the [IB section](#) under Signature Programs.

**ARABIC 1 (SMS)** **5300**  
1 unit 9,10,11,12  
Prerequisite – None

Students are introduced to the phonetic system of modern standard Arabic. Students develop skills in listening and speaking through the use of audiovisual materials. 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)** **5302**  
1 unit 10,11,12  
Prerequisite – Arabic 1

Students learn to function in typical cultural situations. They will be able to interact socially, understand and use appropriate vocabulary. Students develop their 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)** **5304**  
1 unit 11,12  
Prerequisite – Arabic 2

Students continue to learn language in the context of culture. Emphasis is given to reading, writing, listening, and speaking. 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)** **5306**  
1 unit 12  
Prerequisite – Arabic 3

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

**FRENCH 1** **5010**  
1 unit 9,10,11,12  
Prerequisite – None

French 1 offers a basic understanding of the French language and of the culture and geography of the French-speaking world. Students can expect to understand, speak, read and write French in the context of ordinary daily situations and topics such as family, school, numbers, telling

time, sports, and clothing. Learning is enhanced through interactive activities, digital media, role playing, and authentic language activities.

**FRENCH 2** **5020**  
1 unit 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** **5080**  
1 unit 9,10,11,12  
Prerequisite – Teacher and counselor recommendation

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

**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



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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 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

# World Language

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).

**MANDARIN CHINESE 1 (SME) 5326**  
1 unit 9,10,11,12

*Prerequisite – None*

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

**MANDARIN CHINESE 2 (SME) 5328**  
1 unit 10,11,12

*Prerequisite – Chinese 1*

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

**MANDARIN CHINESE 3 (SME) 5330**  
1 unit 11,12

*Prerequisite – Chinese 2*

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

**MANDARIN CHINESE 4 (H) (SME) 5332**  
1 unit 12

*Prerequisite – Chinese 3*

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

**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

# World Language

history, literature, the arts, and food. This course is offered only at SM North.

## **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).

# World Language

## **SPANISH 6 (H)**

1 unit

*Prerequisite – Spanish 5 AP and teacher recommendation*

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

**5213**

12

## **SPANISH FOR HERITAGE SPEAKERS**

1 unit

*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.

**5161**

9,10,11,12

## **WORLD LANGUAGE – INDEPENDENT STUDY**

1/2 unit

*Prerequisite – None*

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

**5221**

9,10,11,12

# 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			✓	✓	ELA		✓			
AP Research (SMS)	1.0				✓	ELA	✓	✓			
Cadet Teaching Program	0.5		✓	✓	✓		✓			✓	
Career Experience	0.5			✓	✓		✓			✓	
Career Experience (Horizons/Arrowhead)	0.5		✓	✓	✓		✓			✓	
Career Exploration (2 hr block per sem)	2.0		✓	✓	✓		✓			✓	
College Campus Study (one sem)	varies			✓	✓		✓			✓	
Community Service	0.5			✓	✓					✓	
Independent Living	1.0	✓	✓	✓	✓		✓			✓	
Interpersonal Skills	0.5	✓	✓	✓	✓		✓			✓	
Introduction to Careers	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	✓	✓	✓	✓	A	✓				
SAT/ACT Preparation	0.5		✓	✓	✓						



# Specialized Programs

S.E.E.K. Students Exploring and Extending Knowledge	0.5	✓	✓	✓	✓		✓			✓	
Student Success Skills	1.0	✓	✓	✓	✓		✓			✓	
Strategies for Success	1.0	✓	✓	✓	✓					✓	
Work Study (2 hr block per sem)	1.0			✓	✓		✓			✓	
	<b>Units</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>G</b>	<b>P</b>	<b>W</b>	<b>NCAA</b>	<b>R</b>	<b>Cost</b>

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R = Can Be Repeated for Credit

A = Fine Arts      ELA = English Language Arts

# Specialized Programs

## 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).

## 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).

## 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.

## 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 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.

## CAREER EXPERIENCE (HORIZONS/ARROWHEAD) 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.

## 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 IEP team. The purpose of this course is to prepare students, who have a vocationally focused IEP, for employment and accessing community-based support services. During the classroom component, students will receive instruction related to job selection, attainment and maintenance. During the community-based component, students will explore jobs through participation in a variety of vocational experiences. Course may be repeated for credit.

## 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 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.

# Specialized Programs

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** **9938**  
*1/2 unit for 90 hours* *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.

**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 this course is determined by the student's IEP team. This course is designed to provide specially designed instruction to enhance interpersonal skills for students. In addition, this course will provide social and/or emotional support in order for students to progress in the general education curriculum. Students who participate in the course have documented social and/or emotional needs in their IEP. The areas of instruction for this course include peer relations, social skills, self-management, compliance skills, and self-advocacy skills. Students enrolled in the course earn elective credit, which can be repeated each school year.

**INTRODUCTION TO CAREERS** **0662**  
*1/2 unit* *9,10,11,12*  
*Prerequisite – IEP Team Recommendation*

Enrollment in this course is determined by the IEP team. Students enrolled will receive instruction related to job selection, attainment and maintenance. In this classroom-based course, students will complete interest surveys, explore careers and learn about available community resources.

**JOBS FOR AMERICA'S GRADUATES  
IN KANSAS (JAG-K)** **9030**  
*1 unit - Full Year Class* *9, 10, 11, 12*  
*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.

**SAT/ACT 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.

**S.E.E.K. Students Exploring and Extending Knowledge** **0147**  
*1/2 unit, Fall* *9,10,11,12*

**0148**  
*1/2 unit, Spring* *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.

**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.

**STRATEGIES FOR SUCCESS** **9160**  
*1 unit* *9,10,11,12*

*Prerequisite – IEP Team recommendation*

Enrollment in the course is determined by the IEP team. This course is designed to provide specially designed instruction that target IEP goals. This includes specific learning strategies, study skills, time management, organization, and self-advocacy skills required for success in core content areas. The course is not designed to serve as a study hall. Skills are taught for students to acquire, maintain, generalize, demonstrate, and transfer skills across the curriculum. Students enrolled in the course earn elective credit, which can be repeated each school year.

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

*Prerequisite – IEP team recommendation*

Enrollment in this course is determined by the IEP team. This course is designed 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. This course is taken on a pass/fail basis for a maximum of 1.0 credit per semester. Course may be repeated for credit.

# 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	2.0	✓	✓	✓	✓	ELA	✓			✓	
ELL Language Arts 2	2.0	✓	✓	✓	✓	ELA	✓			✓	
ELL Language Arts 3	1.0	✓	✓	✓	✓	ELA	✓				
ELL Mathematics Extension	0.5	✓	✓	✓	✓	M	✓			✓	
ELL Reading Foundations 1	1.0	✓	✓	✓	✓		✓				
ELL Study Skills Lab	1.0	✓	✓	✓	✓		✓			✓	

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R = Can Be Repeated for Credit

ELA = English Language Arts M = Mathematics

# 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**

1 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 (course #s 1792, 1793) 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. 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 READING FOUNDATIONS 1** **1804**

1 unit

9,10,11,12

*Prerequisite – Teacher or counselor recommendation, ELL Students*

ELL Reading Foundations 1 is designed for English Language Learners and Students with Limited and Interrupted Formal Education (SLIFE), particularly those with severe gaps in literacy development. This course focuses on developing foundational reading skills with special emphasis on phonological awareness, phonics, decoding, and language and vocabulary development.

## **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				✓	SS					
Art History	0.5	✓	✓	✓	✓	A					
ELA 3	1.0			✓		ELA	✓				
ELA 4	1.0				✓	ELA	✓				
Financial Literacy	0.5		✓	✓	✓	F					
Fitness for Life 1	0.5	✓	✓	✓	✓	P					
Fitness for Life 2	0.5	✓	✓	✓	✓	P	✓				
Health Education 1	0.5	✓	✓	✓	✓	H					
Psychology 1	0.5		✓	✓	✓	SS					
United States History	1.0			✓	✓	SS					

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A = Fine Arts      ELA = English Language Arts      F = Financial Literacy      H = Health      P = Physical Education  
 SS = Social Studies

# 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](http://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](http://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

## Specialized Programs: NJROTC 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

## **Naval Junior Reserve Officers Training Corps (NJROTC) is offered at Shawnee Mission North.**

The Shawnee Mission School District is proud to offer the Naval Junior Reserve Officers Training Corps at SM North High School. All district high school students are eligible to enroll in NJROTC as full-time students on transfer to SM North or as part-time students, schedule permitting. Students in the NJROTC program are responsible to transport themselves to Shawnee Mission North on scheduled class days. Part-time students will be provided transportation by the district back to their home school.

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. Although a student may join NJROTC 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'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 per year for a total of one (1) unit, may count as physical education credit. Two full years of NJROTC would satisfy the graduation requirement of one (1) unit of physical education. Additional NJROTC 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 curriculum is achieved when the cadet chooses at least one NJROTC 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 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

# Specialized Programs: NJROTC

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
2D Animation and Motion Graphics 1 (CAA) (2 hr block per sem)	1.0		✓	✓	✓	A,ST	✓				
2D Animation and Motion Graphics 2 (CAA) (2 hr block per sem)	1.0		✓	✓	✓	A,ST	✓			✓	
3D Modeling and Animation 1 (CAA) (2 hr block per sem)	1.0		✓	✓	✓	A,ST					
3D Modeling and Animation 2 (CAA) (2 hr block per sem)	1.0		✓	✓	✓	A,ST	✓			✓	
Contemporary Communications in Animation and Interactive Media (CAA)	0.5			✓	✓	ELA	✓			✓	
Game Design and Development 1 (CAA) (2 hr block per sem)	1.0		✓	✓	✓	A,ST					
Game Design and Development 2 (CAA) (2 hr block per sem)	1.0			✓	✓	A,ST	✓			✓	

#### 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

A = Fine Arts

ST = STEM

# 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.

## **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 animation principles, basic design elements, storyboarding, animatics, and rendering. Credit may be applied toward the minimum fine arts graduation requirement. Course may qualify for JCCC advanced standing credit. This course can count for the STEM graduation requirement.

## **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. This course can count for the STEM graduation requirement.

## **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, and 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. This course can count for the STEM graduation requirement.

## **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 3D animation and visualization applications. 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 consist of photo-realistic images, visualizations, animations, and creating portfolio quality artifacts. Credit may be applied toward the minimum fine arts graduation requirement. This course may be repeated for credit. Course may qualify for JCCC advanced standing credit. This course may be repeated for credit. This course can count for the STEM graduation requirement.

## **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 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..

## **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

# Animation and Game Design:

## A Signature Program at CAA

arts graduation requirement. Course may qualify for JCCC advanced standing credit. This course can count for the STEM graduation requirement.

**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 visualizations 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 and/or the STEM graduation requirement. 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		✓	✓	✓	SC,ST	✓	✓			\$30
Biotechnology, Introduction to	0.5		✓	✓	✓	SC	✓				
Biotechnology 1 / SOP (CAA) (2 hr block per sem)	1.0		✓	✓	✓	SC,ST	✓				\$30
Biotech Research and Professional Learning Experience (H) (CAA)	0.5		✓	✓	✓	SC,ST	✓	✓		✓	\$30
Contemporary Communications in Biotechnology (CAA)	0.5			✓	✓	ELA	✓			✓	
DNA and Protein Diagnostics (H) (CAA) (2 hr block per sem)	1.0		✓	✓	✓	SC,ST	✓	✓			\$30
Plant and Soil Science (CAA) (2 hr block per sem)	1.0		✓	✓	✓	SC,ST	✓				

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SC = Science      ST = STEM

# 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

### **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. This course can count for the STEM graduation requirement.

### **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 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. This course can count for the STEM graduation requirement.



# Biotechnology:

## A Signature Program at CAA

### **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. This course can count for the STEM graduation requirement.

### **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. This course can count for the STEM graduation requirement.

### **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. This course can count for the STEM graduation requirement.

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

\*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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R = Can Be Repeated for Credit

A = Fine Arts

ELA = English Language Arts

# 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.

### **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.

### **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 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 and Hospitality: A Signature Program at CAA

## **CULINARY ARTS 1 (CAA)**

*2 units (2-hour block, full year)*

*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.

**6406**

*10,11,12*

## **CULINARY ARTS 2 (CAA)**

*2 units (2-hour block, full year)*

*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.

**6407**

*11,12*

## **CULINARY ARTS / COMMERCIAL BAKING, INDEPENDENT STUDY (CAA)**

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

*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.

**6998**

*12*

## **INTRODUCTION TO RESTAURANT MANAGEMENT (CAA)**

*1 1/2 units (Full year, 10 hrs per week)*

*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.

**6455**

*10,11,12*

## **TABLE SERVICE INTERNSHIP (CAA)**

*1/2 unit (1 semester, 9 hrs per week)*

*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.

**6460**

*10,11,12*

# 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
Advanced Concepts in Computer Aided Design H (CAA) (2 hr block per sem)	1.0			✓	✓	ST		✓			
Aerospace Engineering H (CAA) (2 hr block per sem)	1.0		✓	✓	✓	ST		✓			
Civil Engineering and Architecture H (CAA) (2 hr block per sem)	1.0		✓	✓	✓	ST		✓			
Contemporary Communications in Engineering (CAA)	0.5			✓	✓	ELA	✓			✓	
Cybersecurity H (CAA) (2 hr block per sem)	1.0		✓	✓	✓	ST		✓			
Digital Electronics H (CAA) (2 hr block per sem)	1.0		✓	✓	✓	ST		✓			
Engineering Design and Development H (CAA) (2 hr block per sem)	1.0				✓	ST		✓			
Environmental Sustainability (at each high school)	0.5			✓	✓	ST					
Introduction to Engineering Design (at each high school)	1.0	✓	✓	✓	✓	ST					
Principles of Engineering H (at each high school)	1.0		✓	✓	✓	ST		✓			
Robotics	1.0		✓	✓	✓	ST				✓	

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R = Can Be Repeated for Credit

ELA = English Language Arts ST = STEM

# 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.

## **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. This course can count for the STEM graduation requirement.

## **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. This course can count for the STEM graduation requirement.

## **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



# Engineering (PLTW®): A Signature Program at CAA

architecture design software. This course can count for the STEM graduation requirement.

## 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.

## 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. This course can count for the STEM graduation requirement.

## 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. This course can count for the STEM graduation requirement.

## 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. This course can count for the STEM graduation requirement.

## 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. This course can count for the STEM graduation requirement.

# 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. This course can count for the STEM graduation requirement.

## **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. This course can count for the STEM graduation requirement.

# 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			✓		ELA	✓	✓	✓		
IB English HL 2 (H)	1.0				✓	ELA	✓	✓	✓		
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			✓		SS	✓	✓	✓		
IB History HL 2 (H) - European	1.0				✓	SS	✓	✓			
IB History of the Americas HL 1 (H)	1.0			✓		SS	✓	✓	✓		
IB History of the Americas HL 2 (H) SME	0.5				✓	SS	✓	✓			
IB History of the Americas HL 2 (H) SMNW	1.0				✓	SS	✓	✓			
IB Psychology SL (H)	1.0			✓	✓	SS		✓	✓		
IB Psychology HL 1 (H)	1.0			✓		SS		✓	✓		
IB Psychology HL 2 (H)	1.0			✓	✓	SS	✓	✓			
IB American Government for IB Students (H) SME	0.5				✓	SS	✓	✓	✓		

# International Baccalaureate:

## A Signature Program at SME and SMNW

<b>IB Experimental Sciences</b>	<b>Units</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>G</b>	<b>P</b>	<b>W</b>	<b>NCAA</b>	<b>R</b>	<b>Cost</b>
IB Astronomy SL SMNW	0.5			✓	✓	SC,ST	✓				
IB Biology HL 1 (H)	1.0			✓		SC,ST	✓	✓	✓		\$3
IB Biology HL 2 (H)	1.0				✓	SC,ST	✓	✓			\$3
IB Chemistry SL 1 (H)	1.0			✓		SC,ST	✓	✓	✓		\$3
IB Chemistry SL 2 (H)	1.0				✓	SC,ST	✓	✓			\$3
IB Computer Science SL 1 (H)	1.0			✓	✓	ST		✓			
IB Computer Science SL2 (H)	1.0				✓	ST	✓	✓			
IB Environmental Systems and Societies SL	1.0			✓	✓		✓				
IB Physics 1 SL (H)	1.0			✓		SC,ST	✓	✓	✓		
IB Physics 2 SL (H)	1.0				✓	SC,ST	✓	✓			
<b>IB Mathematics</b>	<b>Units</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>G</b>	<b>P</b>	<b>W</b>	<b>NCAA</b>	<b>R</b>	<b>Cost</b>
IB Math Applications and Interpretations SL 1	1.0			✓		M,ST	✓		✓		
IB Math Studies SL 2	1.0				✓	M,ST	✓	✓	✓		
IB Math Analysis and Approaches SL 1 (H)	1.0			✓		M,ST	✓	✓	✓		
IB Math SL 2 (H)	1.0			✓	✓	M,ST	✓	✓			
IB Math Analysis and Approaches HL 1 (H)	1.0			✓		M,ST	✓	✓			
IB Math HL 2 (H)	1.0				✓	M,ST	✓	✓			
<b>IB The Arts &amp; Electives</b>	<b>Units</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>G</b>	<b>P</b>	<b>W</b>	<b>NCAA</b>	<b>R</b>	<b>Cost</b>
IB Visual Arts SL 1 (H)	1.0			✓		A	✓	✓			
IB Visual Arts SL (H)	1.0			✓		A	✓	✓			
IB Visual Arts SL 2 (H)	1.0				✓	A	✓	✓			
IB Visual Arts HL 1 (H)	1.0			✓		A	✓	✓			
IB Visual Arts HL 2 (H)	1.0				✓	A	✓	✓			
IB Dance SL 1 (SME)	1.0			✓		P,A	✓				

# International Baccalaureate:

## A Signature Program at SME and SMNW

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

### 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

A = Fine Arts      ELA = English Language Arts      M = Mathematics      P = Physical Education      SC = Science  
 SS = Social Studies      ST = STEM

# 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



# International Baccalaureate:

## A Signature Program at SME and SMNW

### 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

# International Baccalaureate:

## A Signature Program at SME and SMNW

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)*

# International Baccalaureate:

## A Signature Program at SME and SMNW

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. 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. This course can count for the STEM graduation requirement.

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

*Prerequisite – Chemistry 1Plant an*

**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. This course can count for the STEM graduation requirement. Course cost is \$3.

# International Baccalaureate:

## A Signature Program at SME and SMNW

### 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. This course can count for the STEM graduation requirement. Course cost is \$3.

### 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

4174

11,12

### 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. This course can count for the STEM graduation requirement.

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. This course can count for the STEM graduation requirement.

### 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,

2073

11

2074

12

2071

11,12

2072

12

# International Baccalaureate:

## A Signature Program at SME and SMNW

trigonometry, limits, differential and integral calculus. This course can count for the STEM graduation requirement.

**IB MATH ANALYSIS AND APPROACHES HL 1**      **2075**  
1 unit      11

*Prerequisite – Precalculus (H) recommended*

**IB MATH HL 2 (H)**      **2076**  
1 unit      11,12

*Prerequisite – IB Math HL 1 and PreCalculus H*

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. This course can count for the STEM graduation requirement.

### 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

# International Baccalaureate:

## A Signature Program at SME and SMNW

oral presentation, a 1500 word essay, and a creation of a short film. Some after school work is required. Credit in this course may be applied toward the minimum fine arts graduation credit requirement.

**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			✓	✓	SC,ST	✓				
Certified Nursing (CNA) (CAA) (2 hr block per sem)	1.0				✓	SC,ST	✓				
Contemporary Communications in Medical Health Science (CAA)	1.0			✓	✓	ELA	✓			✓	
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			✓	✓	ST	✓				
Medical Science Clinical Investigation (H) (CAA) (3 hr block, 2 sems)	3.0				✓	ST	✓				\$20
Sports Medicine Clinical Investigation - External (CAA) (2 hr block per sem)	1.0				✓	ST	✓				
Sports Medicine Clinical Investigation - Internal (CAA) (2 hr block per sem)	1.0				✓	ST	✓				

### Column Header Key

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

G = Meets a Graduation Requirement

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NCAA = Meets NCAA Eligibility Requirements

R = Can Be Repeated for Credit

ELA = English Language Arts SC = Science

ST = STEM

# 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.

**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). This course can count for the STEM graduation requirement.

**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. This course can count for the STEM graduation requirement.

**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.

**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: A Signature Program at CAA

## **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. This course can count for the STEM graduation requirement.

## **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. This course can count for the STEM graduation requirement.

## **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. This course can count for the STEM graduation requirement.

## **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-aide 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). This course can count for the STEM graduation requirement.

# Project Blue Eagle:

## A Signature Program at All Shawnee Mission High Schools

### Project Blue Eagle Course Offerings At-a-Glance

<b>Emergency Medical Services</b>	<b>Units</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>G</b>	<b>P</b>	<b>W</b>	<b>NCAA</b>	<b>R</b>	<b>Cost</b>
Blue Eagle Academy	0.5	✓	✓	✓	✓						
Contemporary Communications (CTC)	0.5			✓	✓	ELA	✓			✓	
Emergency Medical Services 1 (CTC) (2 hour block per semester)	1.0		✓	✓	✓		✓				
Emergency Medical Services 2 (CTC) (2 hour block full year)	2.0			✓	✓		✓				
Emergency Medical Services 3 (CTC) (2 hour block, one semester)	1.0				✓		✓			✓	
<b>Fire Science</b>	<b>Units</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>G</b>	<b>P</b>	<b>W</b>	<b>NCAA</b>	<b>R</b>	<b>Cost</b>
Blue Eagle Academy	0.5	✓	✓	✓	✓						
Contemporary Communications (CTC)	0.5			✓	✓	ELA		✓		✓	
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			✓	✓						
<b>Law Enforcement</b>	<b>Units</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>G</b>	<b>P</b>	<b>W</b>	<b>NCAA</b>	<b>R</b>	<b>Cost</b>
Blue Eagle Academy	0.5	✓	✓	✓	✓						
Contemporary Communications (CTC)	0.5			✓	✓	ELA	✓			✓	
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
Accounting	1.0		✓	✓	✓						
Applications in Law	1.0				✓	SS	✓				
Business Law	0.5	✓	✓	✓	✓						
Forensic Science 1	0.5		✓	✓	✓	SC	✓				
Forensic Science 2	0.5		✓	✓	✓	SC	✓				
Intro to the Study of Legal Systems	0.5	✓	✓	✓	✓	SS					
LPSS Internship	0.5				✓		✓				
Practical Law	0.5		✓	✓	✓	SS					

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NCAA = Meets NCAA Eligibility Requirements

R = Can Be Repeated for Credit

ELA = English Language Arts    SC = Science

SS= Social Studies

# 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.

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 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.

#### 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.

#### 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

#### 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.

### 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 – Blue Eagle Academy*

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. Students enrolled in this course may be eligible for JCCC credit (College Now). 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. Students enrolled in this course may be eligible for JCCC credit (College Now).

#### **FIRE SCIENCE 3/HAZMAT (CTC) 6625**

*2 units ((2-hour block, full year) 12*

*Prerequisite – Fire Science 2 or Concurrent Enrollment*

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). This course may be used to satisfy a science elective credit.

#### **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.

### 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.

### PRE-LAW COURSE DESCRIPTIONS

#### 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.

#### 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.

#### 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.

#### 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.

#### 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

### **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.