



**RAYTOWN
QUALITY
SCHOOLS**
Expect the Exceptional



2023-2024 Middle & High School Career & Educational Planning Guide

Raytown C-2 School District
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www.raytownschools.org

Middle & High School Career and Educational Planning Guide

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Our Mission

***Raytown Quality Schools: a unified learning community
leading individuals to achieve the exceptional.***

Dear Parents, Guardians and Students:

This Career and Educational Planning Guide is intended to assist students as they make plans for a career that will lead to a rewarding and enjoyable future. We urge students and parents/guardians to work with the school faculty to review the information in this book in preparation for creating students' personal plans of study. The Individual Career and Academic Plan (ICAP) is the student's unique plan of study which outlines courses that align with future education and career goals. When students see the relevance of high school course work to what they aspire to in their future, they are more apt to take school more seriously and enroll in more rigorous courses. Remember, course selection is very important, and schedule changes can be very difficult. Each year you will revisit the student's Individual Career and Academic Plan (ICAP) and changes can be made as career goals/decisions are revised.

Parents/Guardians, please familiarize yourself with the abundance of information in this book and actively participate with your school and student in creating and reviewing your student's Individual Career and Academic Plan (ICAP). Students rank parents as the most influential people in their lives. Challenge your students to set high standards, select courses and school activities which directly help them achieve personal and career goals, work hard to achieve these goals, and attend classes daily. We hope you will embrace the power of your influence and genuinely engage in educational pursuits with your child(ren).

We look forward to partnering with you for a successful year. Please don't hesitate to contact us if we can be of assistance.

Sincerely,

Mr. Alonzo Burton
School Board President

Dr. Chris Greiner
Chief Executive Academic Officer

Dr. Penelope Martin-Knox
Superintendent of Schools

The Raytown Consolidated School District No. 2 does not discriminate on the basis of race, ethnicity, national origin, sex, age, or disability in admission or access to programs, activities or employment. This notification is made to applicants for admission and employment; students; parents of elementary and secondary students; employees; sources of referral of applicants for admission or employment; and all unions or professional organizations holding collective bargaining or professional agreements. Any person having inquiries concerning Consolidated School District No. 2 compliance with the regulations implementing Title IV, Title IX, or Section 504 is directed to contact the Director of Administrative Services, 10750 E. 350 Highway, Raytown, MO 64138; 816-268-7000.

SCHOOL CALENDAR (www.raytownschools.org)



Bd. Appd. 2/13/23
Updated 2/7/23

RAYTOWN QUALITY SCHOOLS

2023-2024 Academic Calendar

www.raytownschools.org • Message Line: 268-7001

Elem. & Secondary

Grading Periods

Qtr. 1 Aug. 23 - Oct. 13

Qtr. 2 Oct. 16 - Dec. 20

Qtr. 3 Jan. 4 - Mar. 8

Qtr. 4 Mar. 12 - May 24

Term Lengths

Qtr. 1 Oct. 13 - 36 days

Qtr. 2 Dec. 20 - 39 days

Qtr. 3 Mar. 8 - 44 days

Qtr. 4 May 24 - 46 days

Grade cards are distributed approx. one week after grading periods end.

Parent/Teacher

Conferences

Fall Conf: Oct. 23rd-27th

Spring Conf: Mar. 18th-22nd

Graduation

Class of 2024

RH: May 19, 10:00 a.m.

SH: May 19, 2:00 p.m.

Location:

Cable Dahmer Arena

Baccalaureate

Date: TBD by Graduation Committees

*Missouri State statute requires districts to meet a minimum of 1,044 student hours/year
*184 Teacher Contract Days

Prof. Dev. Early

Release PK-12:

8/30, 9/6, 9/13, 9/20, 9/27, 10/11, 10/18, 10/25, 11/1, 11/8, 11/15, 11/29, 12/6, 12/13, 1/10, 1/17, 1/24, 1/31, 2/7, 2/14, 2/21, 2/28, 3/6, 3/13, 3/20, 4/3, 4/10, 4/17, 4/24, 5/1, 5/8, 5/15, 5/22

- First/Last Day of School
- Non-Attendance PK-12
- Early Dismissal PK-12
- Early Dismissal 9-12
- Makeup Days

August							September							October						
Su	M	T	W	Th	F	Sa	Su	M	T	W	Th	F	Sa	Su	M	T	W	Th	F	Sa
		1	2	3	4	5	3	4	5	6	7	8	9	1	2	3	4	5	6	7
6	7	8	9	10	11	12	10	11	12	13	14	15	16	15	16	17	18	19	20	21
13	14	15	16	17	18	19	17	18	19	20	21	22	23	22	23	24	25	26	27	28
20	21	22	23	24	25	26	24	25	26	27	28	29	30	29	30	31				
27	28	29	30	31																

November							December							January						
Su	M	T	W	Th	F	Sa	Su	M	T	W	Th	F	Sa	Su	M	T	W	Th	F	Sa
			1	2	3	4	3	4	5	6	7	8	9	7	8	9	10	11	12	13
5	6	7	8	9	10	11	10	11	12	13	14	15	16	14	15	16	17	18	19	20
12	13	14	15	16	17	18	17	18	19	20	21	22	23	21	22	23	24	25	26	27
19	20	21	22	23	24	25	24	25	26	27	28	29	30	28	29	30	31			
26	27	28	29	30			31													

February							March							April						
Su	M	T	W	Th	F	Sa	Su	M	T	W	Th	F	Sa	Su	M	T	W	Th	F	Sa
					1	2	3	4	5	6	7	8	9	7	8	9	10	11	12	13
4	5	6	7	8	9	10	10	11	12	13	14	15	16	14	15	16	17	18	19	20
11	12	13	14	15	16	17	17	18	19	20	21	22	23	21	22	23	24	25	26	27
18	19	20	21	22	23	24	24	25	26	27	28	29	30	28	29	30				
25	26	27	28	29			31													

May							June							July						
Su	M	T	W	Th	F	Sa	Su	M	T	W	Th	Fr	Sa	Su	M	T	W	Th	F	Sa
			1	2	3	4	2	3	4	5	6	7	8	7	8	9	10	11	12	13
5	6	7	8	9	10	11	9	10	11	12	13	14	15	14	15	16	17	18	19	20
12	13	14	15	16	17	18	16	17	18	19	20	21	22	21	22	23	24	25	26	27
19	20	21	22	23	24	25	23	24	25	26	27	28	29	28	29	30	31			
26	27	28	29	30	31		30													

August

9-15 New Teacher Orientation
16-22 Teacher Orientation
23 First Day of School PK-12

September

4 Labor Day - No School

October

4 Teacher Prof. Dev. - No School
20 Teacher Prof. Workday - No School
26-27 No School
Oct. 23-27 PK-12 Parent-Teacher Conf. Window

November

7 Election Day - Teacher Prof. Dev. - No School
20-24 Fall Break - No School

December

20 Early Dismissal PK-12
21-30 Winter Break - No School

January

1-2 Winter Break - No School
3 Teacher Professional Workday - No School
4 Classes Resume PK-12
15 Martin Luther King Day - No School

February

6 Election Day - Teacher Prof. Dev. - No School
19 Presidents' Day - No School

March

11 Teacher Professional Workday - No School
21-22 No School
Mar. 18-22 PK-12 Parent-Teacher Conf. Window
25-28 Spring Break - No School
29 Good Friday - No School

May

6 Teacher Prof. Workday - No School
24 Proj. Last Day of School PK-12 - Early Dismissal

Graduation Requirements & Differentiated Diplomas

It is the student's responsibility to see that requirements for graduation are met.

Advanced Diplomas Path 1 & Path 2 begin with the Class of 2018.

<i>Students need to check with colleges/universities each year to be sure they meet entrance requirements for specific schools.</i>	Raytown School District Diploma (25 credits)	Advanced Diploma Path 1 (27 credits)	Advanced Diploma Path 2 (28 credits)
ENGLISH LANGUAGE ARTS (ELA) May include 0.5 credit of elective ELA credit See Course Description for what counts as elective ELA credit.	4	4	4 Including Composition or higher
MATHEMATICS	3	3	4 Including Pre-Calculus or College Algebra
SCIENCE	3	3	4 Including 2 Advanced Courses
SOCIAL STUDIES (includes 1.0 credit in American History and American Government; passing US and MO Constitution exams)	3	3	4 Including 1 Advanced Course
ADDITIONAL CORE		1 1 additional credit in Math, Science or Social Studies based on career path for a total of 14 core credits.	
FINE ARTS	1	1	1
PRACTICAL ARTS (includes 0.5 credit in Personal Finance)	1	1.5	1.5
PHYSICAL EDUCATION (includes 0.5 credit in Health through the Wellness class)	1.5	1.5	1.5
SPEECH (Communications, Theatre 1, Debate, Competitive Drama Advanced Debate)	0.5	0.5	0.5
ELECTIVES	8	9 Focused on Successful Completion of Personal Plan of Study	8 Must include 2 years of one World Languages
ADDITIONAL REQUIREMENTS		Proficient or Advanced Score on majority of EOC tests taken. ACT composite score of 21 or above OR Passing score on TSA (Technical Skills Assessment) or IRC (Industry Recognized Credential) in chosen career path. GPA 3.0 or higher	Proficient or Advanced Score on majority of EOC tests taken. ACT composite score of 21 or above. GPA 3.0 or higher.

GRADE PLACEMENT AND CREDIT INFORMATION

Students will be classified in grades using the following credit levels:

- 0 – 4.5 credits = 9th grade
- 5 – 10.5 credits = 10th grade
- 11 – 16.5 credits = 11th grade
- 17 – 25 credits = 12th grade

Credit will be awarded on a semester basis. Grade placement is determined on a yearly basis.

Students must enroll in at least six credit courses each semester and have earned 3 credits the previous semester for Missouri State High School Activities Association (MSHSAA) eligibility.

TRISTER & SEMESTER GRADE CALCULATION

Semester grades will be calculated based on the running trister grade record with 90% of the semester grade coming from the running trister grade for the entire semester and 10% being calculated from the final exam.

MATHEMATICS SUPPORT

Students performing below grade level as determined by test scores, grades, and teacher recommendation, will enroll in Algebra I Readiness, Algebra Math Academy, or Geometry Math Academy. One of these math courses will be used as 1 math credit toward graduation requirements.

READING SUPPORT

Freshman and Sophomore students reading below grade level will be evaluated and may be required to enroll in a reading improvement course. Students enrolled in this reading support program may use this course to fulfill 0.5 units of elective English Language Arts and/or 1.5 units of credit toward elective requirements.

These courses may be used as 0.5 elective English credit:

- English Academy
- Advanced Debate

Speak to your counselor about how this could impact your academic career.

2023-2024 SECONDARY EDUCATION FEES

The following is a list of all Secondary Education Fees pending approval by the Board of Education for the 2023-2024 school year. Fees are listed per semester unless otherwise noted.

High School:

AP Classes	fee for the AP test
Dual Credit	cost of credit as determined by the university
Senior Alumni Fee (paid senior year)	\$ 3.00
Student Parking Fee (per year)	\$21.00
Chromebook Optional Insurance (if assigned a device- not to exceed \$42 per family per year)	\$21.00*
Yearbook (optional)	cost of the book

MISC: Some project-based classes may have additional fees if a student decides to include projects that require materials beyond the scope of the regular projects.

Activity Fees:

Athletic Activity Fee: (per year - not to exceed \$106 per family per year)	\$53.00
Activity Fee: Competitive Drama, Debate, Theatre, Band, Orchestra, Choir Activity Fee: (per year - not to exceed \$52 per family per year)	\$26.00
Athletic Activity Season Tickets:	
Home Fall Season Ticket (Tournaments not included)	\$20.00
Home Winter Season Ticket (Tournaments not included)	\$25.00

Herndon Career Center / Summit Technology Academy:

Fees vary by program and are listed in the Career and Education Planning Guide
Please contact the center directly to determine actual student fees.

Middle School:

Yearbook (optional)	cost of the book
Chromebook Optional Insurance (if assigned a device- not to exceed \$42 per family per year)	\$21.00*
RMS Physical Education Uniform (optional for RMS students)	\$20.00

Activity Fees:

Athletic Activity Fee: (per year - not to exceed \$106 per family per year)	\$53.00
Club Activity Fee: (per year - not to exceed \$52 per family per year)	\$26.00

* Chromebook Optional Insurance (students who qualify for Free/Reduced Lunch, this fee is \$11.00 per Student, \$22.00 Family Maximum). Please refer to Technology 1 to 1 Agreement for more details on this fee.

2023-2024 SECONDARY COURSE FEES

The following is a list of all Secondary Course Fees, pending approval by the Board of Education for the 2023-2024 school year. Fees listed are per semester unless otherwise noted.

High School

Fashion Design classes - approx \$42-\$74 for fabric & notions

Industrial Woods/Metals* - for any materials above what is provided by the district, not to exceed \$26

Industrial Technology Courses - students will need a pair of safety glasses \$11-\$26

Power Technology - junk lawn mower engine, cost varies

Wood Technology* - for any materials above what is provided by the district

Introduction to Visual Arts - student will need to supply a sketchbook, approximate cost \$2-\$21

Photography II & Photography Studio - SD card student will need to supply, approximate cost \$21

Ceramics Studio* - for any materials above what is provided by the district, approx. student cost is \$26-\$100 depending upon project materials

Speech & Debate - National Speech & Debate Association Membership

- Business-Professional Attire

Band - "School Owned" instrument user fee (per year) \$26

- Private company instrument purchase/rental/repairs (typically a one-time expense)

Concert Band - Vest, shirt & tie (\$41).00 OR Dress (\$72)

Marching Band - Band Booster fee \$80-\$100 includes food for festivals & football games, uniform cleaning, field props, & gloves

- New Marcher: one time only purchases \$45-\$65 includes shoes and pants

Orchestra - T-shirt \$10

- Formal wear (tuxedo or dress) purchased as a freshman & worn all 4 years \$68
- School Owned" instrument user fee (per year) \$26
- Private company instrument purchase/rental/repairs (typically a one-time expense)

Chamber Choir - Students will purchase a tuxedo (\$125-140) or dress (\$65-\$75) for Chamber Choir. The directors will provide additional information regarding these purchases.

Concert Choir/Tenor-Bass Choir/Treble Choir - Black closed-toe shoes/black tights, OR black dress shoes, black dress socks, black dress pants.

Middle School

Band - Supplies (on-going): instrument care kit, reeds, etc. (cost varies based on instrument); Repairs (as needed)

- "School Owned" instrument (depending on availability) user fee (per year) \$26
- Private company instrument purchase (one-time fee) or rental (monthly cost)

Orchestra - Supplies (on-going): shoulder rest \$20, rosin \$5, strings \$53-210 per set depending on instrument, as needed

- "School Owned" Instrument User Fee (per year) \$26
- Private company instrument purchase/rental/repairs (typically a one-time expense)

Choir - Raytown Choir T-Shirt

*** If students do the recommended projects all needed supplies are provided & there are no additional costs**

MISC: There are Booster Clubs for many sports, co-curricular clubs, & other clubs, which may collect fees.

MIDDLE SCHOOL SCHEDULE OVERVIEW

CORE CLASSES		6 th Grade	7 th Grade	8 th Grade
	English Language Arts	English AND Reading	English AND Reading OR Enriched English AND Enriched Reading	English OR <i>English I</i> ELA Academy
	Math	Math 6 OR Enriched 6	Math 7 OR Enriched Math 7	Math 8 OR <i>Algebra I</i>
	Science	Science 6	Science 7 OR Science 8	Science 8 OR <i>Physical Science</i>
	Social Studies	Social Studies OR ¹ Challenge	Social Studies	Social Studies

EXPLORATORY CLASSES		6 th Grade	7 th Grade	8 th Grade
	Required	P.E.	P.E. and Speech	P.E., Health, and Connections
	Choice	Combination of three total semesters One semester courses: FACS, Art, General Music, PLTW Three semester courses: Band, Beginning Choir, Orchestra	Combination of two total semesters One semester courses: FACS, World Languages, Art, Mixed Choir Two semester courses: Band, Orchestra, Concert Choir	Combination of three total semesters One semester courses: Competitive Drama/Debate, Theatre, FACS, Art, Project Lead The Way, and/or World Languages, Mixed Choir Two semester courses: Band, Orchestra, Concert Choir, Spanish I
	Support Classes	Math Academy	⁴ Math Academy	⁴ Math Academy and/or ELA Academy

Notes:

1 – Students will be eligible for Challenge if already identified as eligible at the elementary level.

4 - Students are assigned ELA Academy and Math Academy if they are two grade levels behind. Regular testing will occur to monitor their progress, and they can test out of these classes when they are on grade level.



MISSOURI STATE HIGH SCHOOL ACTIVITIES ASSOCIATION (MSHSAA) ELIGIBILITY

Academic

Students earning a failing grade in two or more courses will be ineligible to participate in athletics during the following grading period. The student shall have earned, the preceding semester of attendance, a minimum of 3.0 units of credit or have earned credit in 80% of the maximum allowable classes in which a student can be enrolled in the semester, whichever is greater, or a student must have made standard progress for his or her level the preceding semester in a special education program for the handicapped approved by the Missouri State Department of Education which, though un-graded, enrolls pupils of equivalent age.

Citizenship

In accordance with MSHSAA ByLaw 2.2.1, "Students who represent a school in interscholastic activities must be creditable citizens and judged so by the proper authority. Those students whose character or conduct is such as to reflect discredit upon themselves or their schools are not considered 'creditable citizens.' Conduct shall be satisfactory in accord with the standards of good discipline."

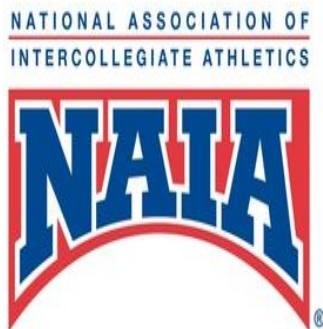
Discipline

Students are not allowed to participate in games if they have ISS or OSS the day of a contest. ISS students may practice, but OSS students cannot practice.

Attendance

Students are expected to be in attendance at school the entire day s/he participates in an athletic contest. Students not in attendance will be ineligible to participate in the contest unless approved by the building principal or athletic director. Students are expected to be at all team practices. If an athlete must miss practice, s/he must give a written excuse to one of the coaches stating the reason for the absence with his/her parent's signature.

Please refer to the MSHSAA OFFICIAL HANDBOOK for additional requirements.



NATIONAL ASSOCIATION OF INTERCOLLEGIATE ATHLETICS (NAIA) REQUIREMENTS

High school graduation, plus **two out of three** of these requirements

- **Achieve a minimum overall high school GPA of 2.0 on a 4.0 scale.**
- **Graduate in the top half of your high school class.**
- **Achieve the NAIA's minimum test score requirement (only one qualifying test score is needed)**
 - **18 composite score on the ACT***
 - EXCEPTION: ACT tests taken March 1, 2016 through April 30, 2019 require a composite score of 16.
 - **970 on the SAT (Evidence-Based Reading and Writing & Math)****
 - EXCEPTION: SAT tests taken March 1, 2016 through April 30, 2019 require a score of 860.

Mid-Year Eligibility Opportunity. If you do not meet requirements for an entering freshman, you can satisfy one of the initial requirements in addition to earning 12 institutional credits hours with a grade of “C” or better during your first term of attendance at your NAIA school to be eligible.

Students with diagnosed learning disabilities, who do not meet the freshman eligibility requirements, may have their academic profiles reviewed by the NAIA Learning Disability Advisory Committee at the request of an NAIA institution. The LDAC will then provide recommendations to the National Eligibility Committee to assist with a final decision.

Information from <https://play.mynaia.org/> as of August 21, 2022

The NAIA Eligibility Center will determine eligibility based on academic record and additional information provided. www.naia.org and <https://play.mynaia.org/>

ONE OPPORTUNITY. LIMITLESS POSSIBILITIES.

If you want to play NCAA sports at a Division I or II school, you need to register with the NCAA Eligibility Center at eligibilitycenter.org. If you plan to compete at a Division III school or currently are not sure in which division you want to compete, create a [free Profile Page account](#).

ACADEMIC REQUIREMENTS

To play sports at a Division I or II school, you must complete a total of 16 [NCAA-approved core courses](#), earn a corresponding test score* that matches your core-course GPA and submit proof of graduation to the Eligibility Center.

CORE-COURSE REQUIREMENTS

Complete a total of 16 core courses in the following areas:

Division I

ENGLISH	MATH (Algebra I or higher)	NATURAL/ PHYSICAL SCIENCE (Including one year of lab, if offered)	ADDITIONAL (English, math or natural/physical science)	SOCIAL SCIENCE	ADDITIONAL COURSES (Any area listed to the left, foreign language or comparative religion/philosophy)
4 years	3 years	2 years	1 year	2 years	4 years

To study and compete at a Division I school, you must complete 10 of your 16 core courses, including seven in English, math or natural/physical science, before the start of your seventh semester.

Division II

ENGLISH	MATH (Algebra I or higher)	NATURAL/ PHYSICAL SCIENCE (Including one year of lab, if offered)	ADDITIONAL (English, math or natural/physical science)	SOCIAL SCIENCE	ADDITIONAL COURSES (Any area listed to the left, foreign language or comparative religion/philosophy)
3 years	2 years	2 years	3 years	2 years	4 years

GRADE-POINT AVERAGE

The NCAA Eligibility Center calculates your [core-course grade-point average](#) based only on the grades you earn in NCAA-approved core courses.

- » Division I requires a minimum 2.3 GPA.
- » Division II requires a minimum 2.2 GPA.

SLIDING SCALE

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 sliding scales at ncaa.org/test-scores.

TEST SCORES

Every time you register for the SAT or ACT, use code 9999 to send your scores directly to the NCAA Eligibility Center from the testing agency. You may take the SAT or ACT an unlimited number of times before you enroll full time in university. If you take either test more than once, the best subscores from each test are used for the academic certification process.

**More information regarding the impact of COVID-19 and test scores can be found at on.ncaa.com/COVID19_Spring2023.*



HIGH SCHOOL TIMELINE

GRADE
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Freshman Year: Register

- » **Start planning now!** Take NCAA-approved courses and earn the best grades possible.
- » Find your high school's list of NCAA-approved core courses at eligibilitycenter.org/counselist.
- » Register for a free Profile Page account at eligibilitycenter.org for information on NCAA initial-eligibility requirements.

GRADE
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Sophomore Year: Plan

- » If you fall behind academically, ask your counselor for help finding approved courses you can take.
- » If you are being actively recruited by an NCAA school and have a Profile Page account, **transition** it to a **Certification account**.
- » Monitor the task list in your Eligibility Center account for next steps.
- » At the end of the school year, ask your counselor from each high school you have attended to upload an official transcript to your Eligibility Center account.

GRADE
11

Junior Year: Study

- » Check with your counselor to make sure you are on track to complete the required number of NCAA-approved **core courses** and graduate on time with your class.
- » Take the **SAT/ACT** and submit your scores to the Eligibility Center using code 9999.*
- » Ensure your sports participation information is correct in your Eligibility Center account.
- » At the end of the school year, ask your counselor from each high school you have attended to upload an official transcript to your Eligibility Center account.

GRADE
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Senior Year: Graduate

- » Complete your final NCAA-approved **core courses** as you prepare for graduation.
- » Take the **SAT/ACT** again, if necessary, and submit your scores to the Eligibility Center using code 9999.*
- » Request your final amateurism certification beginning April 1 (fall enrollees) or Oct. 1 (winter/spring enrollees) in your Eligibility Center account at eligibilitycenter.org.
- » After you graduate, ask your counselor to upload your final official transcript with proof of graduation to your Eligibility Center account.
- » **Reminder:** Only students on an NCAA Division I or II school's **institutional request list** will receive a certification.

How to plan your high school courses to meet the 16 core-course requirement:

$$4 \times 4 = 16$$

9TH
GRADE

(1) English
(1) Math
(1) Science
(1) Social Science
and/or additional

4 CORE COURSES

10TH
GRADE

(1) English
(1) Math
(1) Science
(1) Social Science
and/or additional

4 CORE COURSES

11TH
GRADE

(1) English
(1) Math
(1) Science
(1) Social Science
and/or additional

4 CORE COURSES

12TH
GRADE

(1) English
(1) Math
(1) Science
(1) Social Science
and/or additional

4 CORE COURSES

SEARCH FREQUENTLY ASKED QUESTIONS: ncaa.org/studentfaq

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ELIGIBILITY CENTER

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DIVISION I ACADEMIC REQUIREMENTS

CORE-COURSE REQUIREMENTS

Complete a total of 16 core courses in the following areas, including 10 before the start of your seventh semester (seven in English, math or natural/physical science).

ENGLISH	MATH (Algebra I or higher)	NATURAL/ PHYSICAL SCIENCE (Including one year of lab, if offered)	ADDITIONAL (English, math or natural/physical science)	SOCIAL SCIENCE	ADDITIONAL COURSES (Any area listed to the left, foreign language or comparative religion/philosophy)
4 years	3 years	2 years	1 year	2 years	4 years

QUALIFIER

College-bound student-athletes enrolling at an NCAA Division I school need to meet these academic requirements to practice, compete and receive an athletics scholarship in their first year of full-time enrollment.

- » Complete a total of 16 core courses in the appropriate areas.
 - Ten of your 16 core courses must be completed before the start of your seventh semester (senior year) of high school.
 - Seven of your 10 core courses must be in English, math or natural/physical science.
- » Earn a corresponding test score that matches your core-course GPA (minimum 2.3) on the [Division I Sliding Scale](#).*
- » Submit proof of graduation to the Eligibility Center.

ACADEMIC REDSHIRT

All academic redshirt student-athletes may receive an athletics scholarship during their first year of full-time enrollment and practice during their first regular academic term but may NOT compete during their first year of enrollment.

- » Complete a total of 16 core courses in the appropriate areas.
- » Earn a corresponding test score that matches your core-course GPA (minimum 2.0) on the [Division I Sliding Scale](#).*
- » Submit proof of graduation to the Eligibility Center.

INTERNATIONAL STUDENTS

Please review the [international initial-eligibility flyer](#) for information and academic requirements specific to international student-athletes.

For information on Division II, view the [Division II academic requirements flyer](#).



ELIGIBILITY CENTER

1

TEST SCORES

If you plan to attend an NCAA Division I school, use the sliding scale to review the corresponding test score and core-course GPA (minimum 2.3) you will need to meet Division I qualifier standards.

For both Divisions I and II, a combined SAT score is calculated by adding critical reading and math subscores. An ACT sum score is calculated by adding English, math, reading and science subscores. You may take the SAT or ACT an unlimited number of times before you enroll full time in college. If you take either test more than once, the best subscores from each test are used for the academic certification process.

**More information regarding the impact of COVID-19 and test scores can be found at on.ncaa.com/COVID19_Fall2022.*

CORE-COURSE LIST

You should check to see if your high school has a list of [NCAA-approved core courses](#). No core-course list means courses taken from that high school will not count for NCAA eligibility. If your high school does not have a list, you risk being ineligible to play in college.

ONLINE COURSES/ NONTRADITIONAL

Nontraditional courses are taught online or through distance learning, hybrid/blended, independent study, individualized instruction, correspondence or similar means.

These types of courses may be acceptable for use in the NCAA initial-eligibility certification process; however, it is important to make sure the nontraditional program has been approved and appears on the high school's list of [NCAA-approved core courses](#).

BE AHEAD OF THE GAME

- » If you want to get ahead of the game, you need to register with the [NCAA Eligibility Center](#) before your freshman/ninth year of high school.
- » After you complete six semesters of high school, it is important for you to ask your counselor from each high school you have attended to upload an official transcript to your Eligibility Center account. A six-semester transcript must be submitted in order to have a preliminary certification completed.

DIVISION I FULL QUALIFIER SLIDING SCALE					
Core GPA	SAT*	ACT Sum*	Core GPA	SAT*	ACT Sum*
3.550	400	37	2.750	810	59
3.525	410	38	2.725	820	60
3.500	430	39	2.700	830	61
3.475	440	40	2.675	840	61
3.450	460	41	2.650	850	62
3.425	470	41	2.625	860	63
3.400	490	42	2.600	860	64
3.375	500	42	2.575	870	65
3.350	520	43	2.550	880	66
3.325	530	44	2.525	890	67
3.300	550	44	2.500	900	68
3.275	560	45	2.475	910	69
3.250	580	46	2.450	920	70
3.225	590	46	2.425	930	70
3.200	600	47	2.400	940	71
3.175	620	47	2.375	950	72
3.150	630	48	2.350	960	73
3.125	650	49	2.325	970	74
3.100	660	49	2.300	980	75
3.075	680	50	2.299	990	76
3.050	690	50	2.275	990	76
3.025	710	51	2.250	1000	77
3.000	720	52	2.225	1010	78
2.975	730	52	2.200	1020	79
2.950	740	53	2.175	1030	80
2.925	750	53	2.150	1040	81
2.900	750	54	2.125	1050	82
2.875	760	55	2.100	1060	83
2.850	770	56	2.075	1070	84
2.825	780	56	2.050	1080	85
2.800	790	57	2.025	1090	86
2.775	800	58	2.000	1100	86

ACADEMIC REDSHIRT

*Full sliding scale research between the new SAT and ACT is ongoing.

Want more information? Visit
ncaa.org/playcollegesports.

CONTACT THE NCAA ELIGIBILITY CENTER

U.S. and Canada (except Quebec): 877-262-1492
Monday-Friday, 9 a.m. to 5 p.m. Eastern time

[@ncaaec](#) [@playcollegesports](#) [@ncaaec](#)



ELIGIBILITY CENTER

2

NCAA is a trademark of the National Collegiate Athletic Association, March 2022.

DIVISION II ACADEMIC REQUIREMENTS

CORE-COURSE REQUIREMENTS

Complete a total of 16 core courses in the following areas:

ENGLISH	MATH (Algebra I or higher)	NATURAL/ PHYSICAL SCIENCE (including one year of lab, if offered)	ADDITIONAL (English, math or natural/physical science)	SOCIAL SCIENCE	ADDITIONAL COURSES (Any area listed to the left, foreign language or comparative religion/philosophy)
3 years	2 years	2 years	3 years	2 years	4 years

FULL QUALIFIER

College-bound student-athletes enrolling at an NCAA Division II school need to meet these academic requirements to practice, compete and receive an athletics scholarship in their first year of full-time enrollment.

- » Complete a total of 16 core courses in the appropriate areas.
- » Earn a corresponding test score that matches your core-course GPA (minimum 2.2) on the [Division II Sliding Scale](#).*
- » Submit proof of graduation to the Eligibility Center.

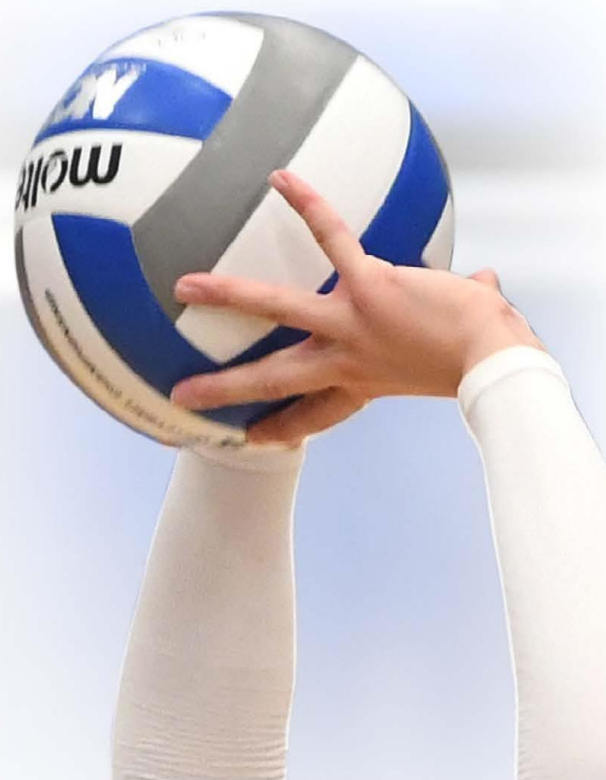
PARTIAL QUALIFIER


College-bound student-athletes that do not meet Division II full qualifier standards will be deemed a partial qualifier. All partial qualifier student-athletes may receive an athletics scholarship and practice during their first year of full-time enrollment at a Division II school, but may NOT compete.

INTERNATIONAL STUDENTS

Please review the [international initial-eligibility flyer](#) for information and academic requirements specific to international student-athletes.

For information on Division I, view the [Division I academic requirements flyer](#).



 VOLLEYBALL CHAMPIONSHIP



ELIGIBILITY CENTER

1

TEST SCORES

If you plan to attend an NCAA Division II school, use the sliding scale to review the corresponding test score and core-course GPA (minimum 2.2) you will need to meet Division II full qualifier standards.

For both Divisions I and II, a combined SAT score is calculated by adding critical reading and math subscores. An ACT sum score is calculated by adding English, math, reading and science subscores. You may take the SAT or ACT an unlimited number of times before you enroll full time in college. If you take either test more than once, the best subscores from each test are used for the academic certification process.

**More information regarding the impact of COVID-19 and test scores can be found at on.ncaa.com/COVID19_Fall2022.*

CORE-COURSE LIST

You should check to see if your high school has a list of [NCAA-approved core courses](#). No core-course list means courses taken from that high school will not count for NCAA eligibility. If your high school does not have a list, you risk being ineligible to play in college.

ONLINE COURSES/NONTRADITIONAL

Nontraditional courses are taught online or through distance learning, hybrid/blended, independent study, individualized instruction, correspondence or similar means.

These types of courses may be acceptable for use in the NCAA initial-eligibility certification process; however, it is important to make sure the nontraditional program has been approved and appears on the high school's [list of NCAA-approved core courses](#).

BE AHEAD OF THE GAME

- » If you want to get ahead of the game, you need to register with the [NCAA Eligibility Center](#) before your freshman/ninth year of high school.
- » After you complete six semesters of high school, it is important for you to ask your counselor from each high school you have attended to upload an official transcript to your Eligibility Center account. A six-semester transcript must be submitted in order to have a preliminary certification completed.

For more information on Division II, visit ncaa.org/D2.



Want more information? Visit ncaa.org/playcollegesports.

DIVISION II FULL QUALIFIER SLIDING SCALE		
Core GPA	SAT*	ACT Sum*
3.300 & above	400	37
3.275	410	38
3.250	430	39
3.225	440	40
3.200	460	41
3.175	470	41
3.150	490	42
3.125	500	42
3.100	520	43
3.075	530	44
3.050	550	44
3.025	560	45
3.000	580	46
2.975	590	46
2.950	600	47
2.925	620	47
2.900	630	48
2.875	650	49
2.850	660	49
2.825	680	50
2.800	690	50
2.775	710	51
2.750	720	52
2.725	730	52
2.700	740	53
2.675	750	53
2.650	750	54
2.625	760	55
2.600	770	56
2.575	780	56
2.550	790	57
2.525	800	58
2.500	810	59
2.475	820	60
2.450	830	61
2.425	840	61
2.400	850	62
2.375	860	63
2.350	860	64
2.325	870	65
2.300	880	66
2.275	890	67
2.250	900	68
2.225	910	69
2.200	920	70 & above

*Full sliding scale research between the new SAT and ACT is ongoing.

CONTACT THE NCAA ELIGIBILITY CENTER

U.S. and Canada (except Quebec): 877-262-1492
Monday-Friday, 9 a.m. to 5 p.m. Eastern time

[@ncaaec](#) [@playcollegesports](#) [@ncaaec](#)



SPECIAL PROGRAMS

A+ SCHOOLS PROGRAM

Raytown High and Raytown South High School have joined other schools in the state by becoming A+ designated schools.

A+ Financial Benefits: The A+ Scholarship Program provides scholarship funds to eligible graduates of A+ designated high schools who attend a participating public community college or vocational/technical school, or certain private two-year vocational/technical schools. ***Note: A+ tuition reimbursement is dependent upon the availability and appropriation of funds by the Missouri General Assembly.***

How much can I receive?

The scholarship will reimburse, within the limits described in the following paragraph, the unpaid balance of your tuition and general fees after all available, non-loan federal financial assistance, such as the federal Pell grant, has been applied to your account. This may result in a zero award if your Pell grant is sufficient to cover all tuition and general fee charges. General fees are fees that are charged to all students and do not include fees specific to an individual program or group of students.

The tuition amount eligible for reimbursement is capped at the published standard per credit hour tuition rate charged by State Technical College of Missouri. The reimbursement cap is subject to change annually as tuition rates change. The maximum reimbursement rate is announced in late spring or early summer each year. For the 2022-2023 academic year, the maximum rate is \$196.00 per credit hour or \$5.20 per clock-hour.

The amount reimbursed may be reduced if there are insufficient state appropriations. The following factors may also affect the amount you are eligible to receive:

- Reimbursement will be made for completed coursework, including remedial coursework, for which a standard grade was assigned and that is required by your school for the completion of the degree or certificate. For A+ Scholarship purposes, a grade of Incomplete is considered a standard grade.
- Coursework that is part of a higher level certificate or degree program taken after receipt of a certificate will be reimbursed if it is related to the original certificate.
- The amount of reimbursement paid for coursework for which a standard grade was not assigned (dropped coursework), including coursework from which you officially or unofficially withdrew, will not be reimbursed if you complete 12 semester credit hours (6 in summer). Dropped coursework will be reimbursed if you complete fewer than 12 semester credit hours (6 in summer) because you will be ineligible for A+ until the dropped hours are completed. For example, if you enroll in 15 hours but only complete 12, A+ will not pay for the 3 hours that were dropped. If you enroll in 15 hours but only complete 9, A+ will pay for all 15 hours but you will be ineligible for A+ until you have completed at least 3 hours ($9+3=12$ hour completion requirement).
- Repeat coursework, which includes courses for which you have already received a grade (including a failing grade), will not be reimbursed.

A+ Requirements to be eligible for the tuition reimbursement benefit, high school students must:

- ✓ Be a U.S. citizen or permanent resident
- ✓ Enter a written agreement with your high school prior to graduation
- ✓ Attend a designated A+ high school for 2 years prior to graduation.
- ✓ Graduate from a designated A+ high school with an overall unweighted grade point average of 2.5 or higher on a 4.0 scale.
- ✓ Have at least a 95% attendance record overall for grades 9–12.
- ✓ Perform at least 50 hours of unpaid tutoring or mentoring of which up to 25% may include job shadowing prior to graduation.
- ✓ Maintain a record of good citizenship and avoid the unlawful use of drugs &/or alcohol while in grades 9-12.
- ✓ Have achieved a score of proficient or advanced on the Algebra I end of course exam or a higher level of DESE approved end of course exams in the field of mathematics.

Maintaining the A+ Tuition Reimbursement Benefit

Following high school graduation, A+ certified graduates have 48 months after high school graduation date to access their tuition benefit. To access and keep the A+ benefit,

To renew, initial students must:

- Complete the [FAFSA](#) or FAFSA4caster if applicable, in order to make a good faith effort to secure a Pell grant or other federal aid
- Achieve a minimum 2.0 cumulative GPA by the end of the fall term.
- Complete at least 12 credit hours in each fall & spring term in which you receive an A+ award (6 credit hours in summer).
- Achieve a minimum 2.5 cumulative grade point average by the end of the spring term.

To renew, renewal students must:

- Complete the [FAFSA](#) or FAFSA4caster if applicable, in order to make a good faith effort to secure a Pell grant or other federal aid
- Maintain a 2.5 GPA and otherwise maintain satisfactory academic progress as defined by your school
- Complete at least 12 credit hours in each fall & spring term in which you receive an A+ award (6 credit hours in summer).

Please see Missouri’s Department of Higher Education website for more information on the A+ program.

ACT Math Score		High School GPA
17 or greater	and	2.5 or greater
16	and	2.8 or greater
15	and	3.0 or greater

Questions about the program may be referred to the Counseling Center: RHS 816-268-7300 or SHS 816-268-7330

WEIGHTED COURSE OFFERINGS

The classes listed on this page are calculated for GPA using a weighted calculation for students getting a C or better in the classes. Students receiving a grade of D or F will not benefit from a weighted calculation. This weighted calculation is given to recognize the increased rigor of these classes. Students taking these classes are able to increase their overall GPA by taking these difficult courses. Students will then be given both a weighted and unweighted GPA on the grade card and transcripts. Most universities and the NCAA and NAIA Clearinghouses use the unweighted GPA. However, the weighted GPA will be used in calculating class rank.

GPA is calculated by adding the proper GPA factor for each class and dividing by the number of classes taken. The GPA factors are as follows for regular and weighted classes.

<u>GPA Factors</u>	
Regular Classes	Weighted Classes
A – 4	A – 5
B – 3	B – 4
C – 2	C – 3
D – 1	D – 1
F – 0	F – 0

English Language Arts (ELA)

- Composition 1
- Composition 2

World Languages

- French 110/120
- Spanish 1601/1602/2601/2602

Mathematics

- College Algebra
- Pre-Calculus
- Calculus
- Statistics

Visual Arts

- AP Studio Art
- AP Studio Art: 2-D Design
- AP Studio Art: 3-D Design
- AP Studio Art: Drawing

Science

- Chemistry 211
- Physics
- College Physics 210
- Anatomy and Physiology 118
- AP Biology

Music

- AP Music Theory

Business, Marketing & Technology

- Applied Accounting I
- Leadership

Social Studies

- College American History 1350/1351
- College World History 1402
- College American Government 1510

Project Lead The Way

- Engineering Design & Development

Speech / Theatre

- College Debate
- College Public Speaking

Southland CAPS (HCC)

- Animal Health Science
- Business Innovation & Creation
- Education Exploration
- Turf Management & Horticulture
- Aviation Maintenance

Herndon Career Center

- Advertising and Graphic Design I & II
- Auto Collision & Repair Tech I & II
- Automotive Technology I & II
- HVAC/Industrial Maintenance I & II
- Construction Technology I & II
- Cosmetology
- Culinary Arts I & II
- Diesel, Industrial & Agr. Mechanics I & II
- Emergency Medical Technician
- Foundations of Nursing I & II
- Welding & Metal Fabrication I & II
- Law Enforcement / Police Science I & II

Summit Technology Academy

- Digital Electronics
- Computer Integrated Manufacturing
- Aerospace Engineering
- Aerospace Academy
- Engineering Design & Development
- DevSecOps
- Adv. Networking & Cyber Concepts
- Cyber Security
- Cyber Operations
- Software Development Python
- Software Development - Data & A.I.
- Software Development - Java
- Software Development - Applications
- Allied Health Academy
- Medical Interventions/BioMed Innovation PLTW
- Professional Nursing
- Digital Media Technology
- Teacher Education Academy
- International Studies Academy
- Business Finance & FinTech
- Hospitality, Tourism & Recreations Management
- Environmental Studies
- Internship in MIC
- Internship to STEM Careers

CAREER COURSE OFFERINGS

Business

- Business Fundamentals
- Personal Finance
- Business Management
- Applied Accounting I & II
- Economics
- College and Career Prep
- Computer Applications
- Desktop Publishing
- Foundations of Web Design
- Computer Programming

Family and Consumer Sciences

- Food Prep I
- Food Prep II
- World Foods
- Fashion Design I
- Fashion Design II
- Fashion Design III
- Child Development I
- Child Development II
- Wellness
- Relationships: Through the Lifespan

- Student Technology Assistant
- Travel and Tourism
- Entrepreneurship
- Marketing
- Advanced Marketing
- Marketing Internship

Computer Science (Project Lead The Way)

- Computer Science Principles

Summit Technology Academy

- Digital Electronics
- Computer Integrated Manufacturing
- Aerospace Engineering
- Aerospace Academy
- Engineering Design & Development
- DevSecOps
- Adv. Networking & Cyber Concepts
- Cyber Security
- Cyber Operations
- Software Development Python
- Software Development - Data & A.I.
- Software Development - Java
- Software Development - Applications
- Allied Health Academy
- Medical Interventions/Biomed Innovation PLTW
- Professional Nursing
- Digital Media Technology
- Teacher Education Academy
- International Studies Academy
- Business Finance & FinTech
- Hospitality, Tourism & Recreations Management
- Environmental Studies
- Internship in MIC
- Internships in STEM Careers

Cooperative Work Experience Program (Co-Op)

- Personal Finance

Engineering Futures (Project Lead The Way)

- Introduction to Engineering & Design
- Principles of Engineering
- Civil Engineering & Architecture
- Digital Electronics
- Engineering Design & Development

Industrial Technology

- Power Technology
- Alternative Energy Technology
- Functional Woodworking Technology
- Industrial Technology I & II
- General Metal Technology
- Industrial Metals Technology

Urban Agriculture

- Intro to Animal & Plant Science

Southland CAPS (HCC)

- Education Exploration

Herndon Career Center

- Advertising and Graphic Design I & II
- Auto Collision & Repair Tech I & II
- Automotive Technology I & II
- HVAC/Industrial Maintenance I & II
- Construction Technology I & II
- Cosmetology
- Culinary Arts I & II
- Diesel, Industrial & Agr. Mechanics I & II
- Emergency Medical Technician
- Foundations of Nursing I & II
- Welding & Metal Fabrication I & II
- Law Enforcement / Police Science I & II
- Special Topics

DUAL AND ARTICULATED COLLEGE CREDIT

To assist students in making a smooth transition from high school to college, the Raytown School District has several courses in which students may receive college credit while taking the course in high school. College tuition and fees may apply. The Coordinating Board of Higher Education requires students to meet specific GPA requirements. In addition, universities have attendance requirements in order to earn college credit. To assist the collaborating universities in verifying that students enrolled into the Dual Credit program meet these requirements, the District will share cumulative GPA with the university to which the student has completed an application. The district may also share course attendance percentage, for the enrolled dual credit course only, upon request of the university. Every university has specific requirements for eligibility to enroll in Dual Credit courses. Log into the university website for information on whether you qualify to enroll for dual credit courses.

UMKC Requirements: cas.umkc.edu/hscp/

MCC Requirements: www.mcckc.edu/high-school-info/dual-credit.aspx

UCM Requirements: www.ucmo.edu/dualcredit/

NWMSU Requirements: <http://www.nwmissouri.edu/kc/dualcredit/courses.htm>

Missouri S&T <https://pltw.mst.edu/undergradcredit/undergradcredit/>

Drury University: <https://www.drury.edu/go/dual-credit-program>

These include:

- Composition I
- Composition II
- College Algebra
- Pre-Calculus
- Calculus
- Applied Accounting I
- Chemistry 211
- College Physics 210
- Anatomy & Physiology 118
- AP Biology
- College American History 1350/1351
- College World History 1402
- College American Government 1510
- Leadership
- College Debate
- College Public Speaking
- French 110/120
- Spanish 1601/1602/2601/2602
- AP Studio Art
- AP Studio Art: 2-D Design
- AP Studio Art: 3-D Design
- AP Studio Art: Drawing
- AP Music Theory

Project Lead The Way Courses:

- Introduction to Engineering & Design
- Principles of Engineering
- Civil Engineering and Architecture
- Digital Electronics
- Engineering Design & Development
- Computer Science Principles

Southland CAPS (HCC)

- Animal Health Sciences
- Education Exploration
- Turf Management & Horticulture
- Business Innovation & Creation
- Aviation Maintenance

Herndon Career Center (HCC)

- Advertising and Graphic Design I & II
- Auto Collision and Repair Tech I & II
- Construction Technology I & II
- Culinary Arts II
- Emergency Medical Technician
- Law Enforcement /Police Science I & II
- Welding/Metal Fabrication I & II

Dual credit offerings available through **Summit Technology Academy, Metropolitan Community College and University of Central Missouri**. College Tuition and fees may apply.

Available at Summit Technology Academy

- Digital Electronics
- Computer Integrated Manufacturing
- Aerospace Academy
- DevSecOps
- Advanced Networking & Cyber Concepts
- Cyber Security
- Cyber Operations
- Internship in MIC
- Software Development -Python
- Software Development - Java
- Software Development – Applications
- Medical Interventions/Biomedical Innovation PLTW
- Professional Nursing
- Allied Health Academy
- Digital Media Technology
- Teacher Education Academy
- International Studies Academy
- Business Finance & FinTech
- Hospitality, Tourism & Recreations Management
- Environmental Studies

In order to be eligible for dual credit courses, including career and technical education (CTE) courses, all prospective dual credit students must meet the same requirements for placement into individual courses, (e.g., English or mathematics) as those required of on campus students. Institutions that use placement tests (e.g., ACT, ASSET, COMPASS) to assess students' readiness for college-level, individual courses must ensure that these students score at proficient or above on the ACT or other common placement test as adopted by the Coordinating Board for Higher Education and outlined in the Principles of Students in the 11th and 12th grades interested in dual credit must also meet the additional criteria listed below:

- a) Students in the 11th and 12th grades with an overall minimum grade point average of 3.0 (on a 4.0 scale) are automatically eligible for dual credit courses.
- b) Students in the 11th and 12th grades with an overall grade point average between 2.5 – 2.99 (on a 4.0 scale) must provide a signed letter of recommendation from their principal or guidance counselor and provide written permission from a parent or legal guardian.
- c) Students in the 9th and 10th grade interested in dual credit must also meet the additional criteria listed below:
 - 1.) Students in the 10th grade must have an overall minimum grade point average of 3.0 (on a 4.0 scale) and must provide a signed letter of recommendation from their principal and guidance counselor and provide written permission from a parent or legal guardian.
 - 2.) Students in the 9th grade must have an overall minimum grade point average of 3.0 (on a 4.0 scale), score at the 90th percentile or above on the ACT or SAT, and

provide a signed letter of recommendation from their principal and guidance counselor and provide written permission from a parent or legal guardian.

The Missouri Coordinating Board for Higher Education has recently adopted a revised dual credit policy. Specific guidelines governing this policy are currently being decided. **Please be sure to check with your counselor and/or dual credit teacher regarding eligibility requirements. Dual credit through UMKC requires a 3.0 GPA.**

RQS DUAL CREDIT SYLLABUS MESSAGE

Enrollment in dual credit can be a complex and sometimes confusing process. Your teacher is your first connection to the process of enrolling in dual credit with an institution. The district Dual Credit Coordinator is there to help both you and your instructor navigate the complex paths of the different university partners you may be enrolled with.

With that said, please be aware that by enrolling with a college partner, you are creating a relationship with that institution that is governed by the institution's rules and procedures. Your instructor and the Dual Credit Coordinator will work hard to make sure you are aware of your responsibilities, but the Raytown School District has very little influence over issues of enrollment, billing, or other procedural questions with the different universities. Pay careful attention to deadlines, enrollment requirements, cost commitments, and communications from the university you are working with. As a college student, you are responsible for meeting the requirements of the university you are enrolling with.

Please, if you have any questions, do not hesitate to ask your instructor or to send a message to Jeff Dierking, the district Dual Credit Coordinator - jeff.dierking@raytownschools.org, (816) 268-7000 x. 3112.

EARLY COLLEGE ACADEMY

A selective academic program based through Metropolitan Community College (MCC), in cooperation with Raytown High School and Raytown South High School that provides an opportunity for qualifying students to complete a 2-year Associate Degree contiguously with their high school graduation. College credit is acquired through dual credit courses and online, summer or evening college courses. MCC offers a variety of Early College Academies for high-achieving, motivated high school students. The academies provide a faster, more affordable path to a certificate or a degree. Each MCC campus offers a unique Early College Academy experience

Admission is selective:

The Early College Academy is academically rigorous - you must be eligible for your high school's dual credit program to apply. If you have a 3.0 GPA or higher and a minimum ACT score of 18, you may apply to the program. Students who meet these requirements and complete the application packet will be considered by a review committee, to apply for the program. The final selections are determined by the MCC Review Committee.

Potential Academy students are selected based on standardized test scores and GPA and invited to attend an information session. A parent or guardian must attend an evening information session.

Applicants must complete by February 1st:

1. Take the ACT & have scores sent to MCC
2. Apply to MCC online at <https://mcckc.edu/apply-now/>
3. Complete an application to Early College Academy
4. Request an official high school & college (if any dual credit) transcript(s)
5. High School Attendance Records
6. Recommendations from high school faculty, a counselor, or a principal
7. Complete the required essay questions
8. Distribute three reference forms, to be sent to MCC by the referrer

More information regarding the Early College Academy may be found online at: <https://mcckc.edu/college-acceleration-program/options.aspx>

A+ funding may not be used. Students must be high school graduates to receive A+ funding.

ADVANCED PLACEMENT (AP) CREDIT

Students may also earn Advanced Placement credit in Calculus, Statistics, Biology, Studio Art, and Music Theory. Colleges and universities give credit in these courses based on scores earned on nationally administered examinations. College Board sets the fees for all AP exams. For more information about the AP exams and fees visit www.collegeboard.com. See your counselor for more information.

MISSOURI SEAL OF BILITERACY

Students who demonstrate strong proficiency in English and a second language, and who use these languages to support others, may earn the Missouri Seal of Biliteracy upon graduation. This program is open to all students, including those taking World Languages courses and ELD courses. Students prove English proficiency through the English II EOC, ACT Reading test, or WIDA ACCESS and second language proficiency through the AAPPL test. Recipients of this award may earn 6 to 14 college credits in the second language at one of several Missouri universities. For more information, see your World Languages+ or ELD teacher.



CREDIT RECOVERY

Placement in credit recovery programs is based on principal approval. Options could include: computer assisted credit-recovery class night school and/or Summer School. Please see your counselor for further information.

ENGLISH LANGUAGE DEVELOPMENT (ELD)

The Raytown School District offers English Language Development (ELD) services for students who score below 5.0 on the WIDA Screener/ or below 4.7 on the WIDA ACCESS tests. Placement is by the Director of Student Programs and the ELD Teacher. These courses are included within the Curricular Offerings section of the Career and Educational Planning Guide.

LIBRARY MEDIA SERVICES

Library Media Program services are available to all students in grades 6-12. All secondary schools employ a full-time certified library media specialist and a full-time library clerk. As a foundation for increased academic achievement, the Library Media Program will collaborate to enhance reading, research, and critical thinking skills, while providing flexible and equitable access to physical and digital resources. The Mission of the Library Media Program is to ensure all students and staff are effective users of ideas and information, empowering them to be critical thinkers, enthusiastic readers, skillful researchers, and ethical users of information.

SPECIAL EDUCATION

The Raytown School District offers a full continuum of special education and related services for students identified with educational disabilities. All of the special education services are individualized to meet the special needs of each student. Students with Individual Education Plans are eligible to enroll in core subject areas courses (English, math, science, and social studies) based on IEP team decisions. General Education courses can be modified to meet the individual learning needs of IEP students.

Students receiving special services shall follow their Individualized Education Program (IEP). A student's IEP team determines the program of studies best suited for each of these students on an annual basis.

SUMMER SCHOOL (GRADES 6-12)

Raytown Summer School is offered to students entering 6th-12th grade. Core classes and several other subjects are offered for credit recovery or first-time credit. The summer school brochure containing dates, application information, and class details will be available in the schools and on-line by the end of March.

CURRICULAR KEY

Each grade level is represented by the color below:

6th Grade	7th Grade	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
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The flowcharts are color coded to show the first year the class is offered.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

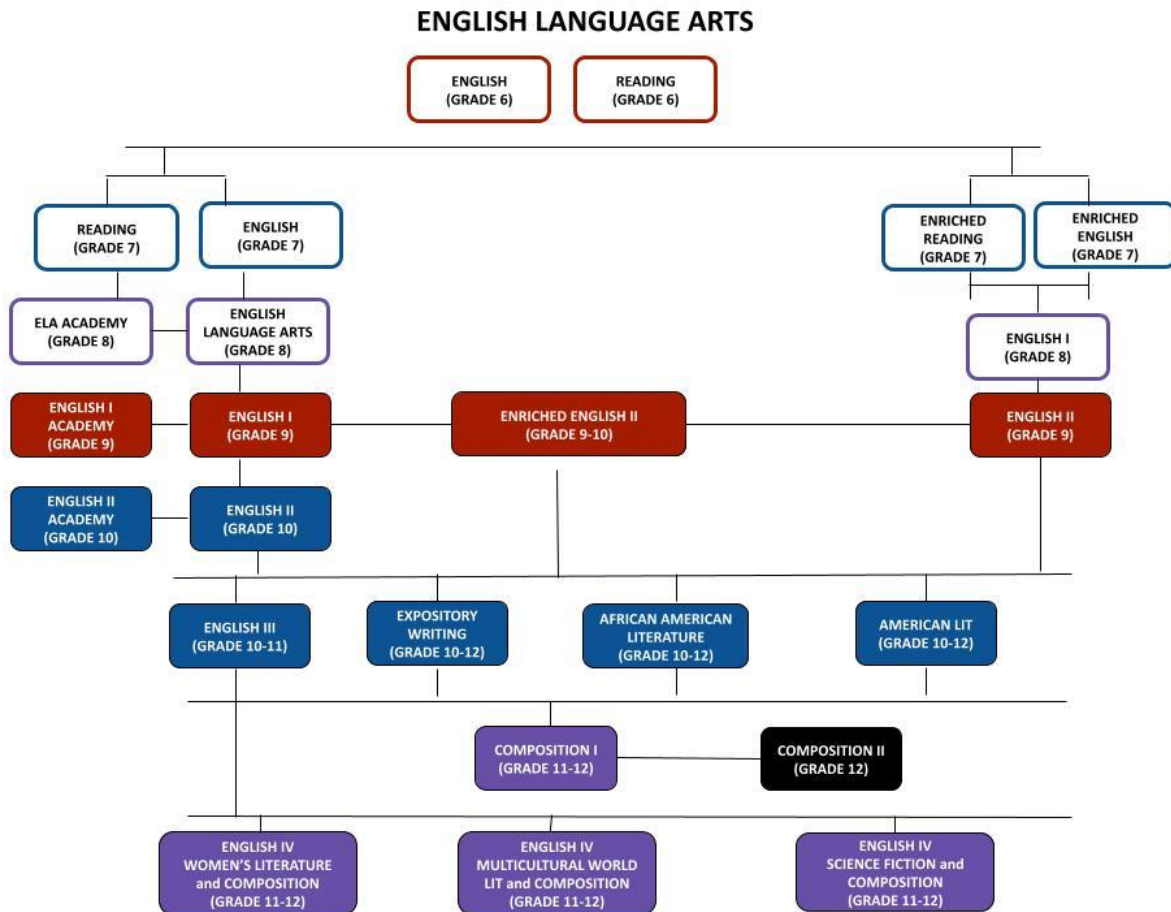
* Center of Excellence

**Project Lead the Way (PLTW) Course

--Industrial Internships Available

CURRICULAR OFFERINGS (by Department)

ENGLISH LANGUAGE ARTS



MIDDLE SCHOOL

ENGLISH

Grade 6
2 Semesters

Course Description: This course is designed to allow students to focus on their writing skills. Students will be exposed to a variety of writing genres: argumentative, informative/explanatory, and narrative to critically analyze the styles of writing. The course utilizes the 6+Traits of writing to support the student to discover, organize, and understand their ideas through the process of writing. Students are provided opportunities to grow in their writing by working independently and collaboratively on a variety of writing experiences.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

READING

Grade 6
2 Semesters

Course Description: This course is designed to give students a variety of reading experiences. Students will read quality literature and informational texts to support the development of their reading skills by exposing them to a collection of authors and complex texts. This course will require students to read and synthesize grade level appropriate texts and ideas.

ENGLISH

Grade 7
2 Semesters

Course Description: This course is designed to allow students to focus on their writing skills. Students will be exposed to a variety of genres of writing: argumentative, informative/explanatory, and narrative to critically analyze the styles of writing. The course utilizes the 6+Traits of writing to support the student to discover, organize, and understand their ideas through the process of writing. Students are provided opportunities to grow in their writing by working independently and collaboratively on a variety of writing experiences.

READING

Grade 7
2 Semesters

Course Description: In the course students will read quality literature and informational texts to support the development of their appreciation of both writers and texts. Students will explore a variety of texts to show how it speaks to the human experience. This course will require students to read and synthesize grade appropriate texts and ideas.

ENRICHED ENGLISH LANGUAGE ARTS

Grade 7
2 Semesters

Course Description: This course is for students who show strong English Language Art skills. This blocked course is a balanced approach in teaching language, reading, writing, speaking and listening skills. Students are exposed to a variety of genre writing: argumentative, informative/explanatory, and narrative that gives opportunities for students to grow in their writing by working independently and collaboratively. Students will create their own writing using the writing process with instruction that supports the student to discover, organize and communicate their ideas. Additionally, this course exposes students to a variety of quality literature and informational texts to support their development as readers. This course will require students to read and synthesize complex texts and demonstrate this understanding in their writing. The course work will consist of 7th grade curriculum for 1st semester and 8th grade curriculum for 2nd semester.

ENGLISH LANGUAGE ARTS

Grade 8
2 Semesters

Course Description: This course is a balanced approach in teaching language, reading, writing, speaking and listening skills. Students are exposed to a variety of genre writing: argumentative, informative/explanatory, and narrative that gives opportunities for students to grow in their writing by working independently and collaboratively. Students will create their own writing using the writing process with instruction that supports the student to discover, organize and communicate their ideas. Additionally, this course exposes students to a variety of quality literature and informational texts to support their development as readers. This course will require students to read and synthesize grade appropriate texts and demonstrate this understanding in their writing.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

ENGLISH I

Grades 8
2 Semesters

Course Description: This course is designed to cover both reading and writing skills. Students will read quality literature that develops their appreciation of both the writer and the art of writing. Students will explore the value of well-crafted literature and how it speaks to the human experience. Students will study poetry, novels, and short stories. Employing learning strategies, students improve sentence development, paragraph organization, diction, grammar and usage, vocabulary and spelling. Students practice revision and editing skills.

ELA ACADEMY

Grade: 8
2 Semesters

Co-Enrollment: English Language Arts

Course Description: English Language Arts Academy is an ELA support class for students concurrently enrolled in English Language Arts. The course provides instructional time to master ELA skills necessary to be successful in English Language Arts class. English Language Arts Academy offers reading and writing skills review, pre-teaching, and re-teaching of current English Language Arts skills and strategies. In addition, this course will provide support for students to grow their reading skills to increase their comprehension of various texts. Students will be enrolled in this class who demonstrate significant weaknesses in their reading and writing skills.

HIGH SCHOOL

ENGLISH I HS1010

Grade: 9
1 Unit: 2 Semesters

Course Description: Students focus on reading and writing skills. They read quality literature that develops their appreciation of both the writer and the art of writing. Students explore the value of well-crafted literature and how it speaks to the human experience. Students study poetry, novels, and short stories. Employing learning strategies, students improve sentence development, paragraph organization, diction, grammar and usage, vocabulary and spelling. Students practice revision and editing skills.

ENGLISH I ACADEMY HS1020

Grade: 9
1 Unit: 2 Semesters

Co-Enrollment: English I

Course Description: English I Academy is an ELA support class for students concurrently enrolled in English I. The course provides instructional time to master ELA skills necessary to be successful in English I. English I Academy offers reading and writing skills review, pre-teaching, and re-teaching of current English I skills and strategies. In addition, this course will provide support for students to grow their reading skills to increase their comprehension of various texts. Students will be enrolled in this class who demonstrate significant weaknesses in their reading and writing skills.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

**ENGLISH II ACADEMY
HS1050**

Grade: 10
1 Unit: 2 Semesters

Co-Enrollment: English II

Course Description: English II Academy is an ELA support class for students concurrently enrolled in English II. The course provides instructional time to master ELA skills necessary to be successful in English II. English II Academy offers reading and writing skills review, pre-teaching, and re-teaching of current English II skills and strategies. In addition, this course will provide support for students to grow their reading skills to increase their comprehension of various texts. Students will be enrolled in this class who demonstrate significant weaknesses in their reading and writing skills.

**ENGLISH II
HS1030**

Grades 9-10
1 Unit - 2 Semesters

Prerequisite: English I

Course Description: This course is designed to focus on reading and writing skills. Students will read quality literature that challenges and further develops their appreciation of both writer and the art of writing. Students explore the value of well-crafted literature and how it speaks to human experience. Students study poetry, novels, and short stories. Employing learning strategies, students improve sentence development, paragraph organization, diction, grammar and usage, vocabulary and spelling. During the second semester, students work on longer compositions using exposition and analysis when writing. Students practice revision and editing skills. Students should not take this class more than once except during summer school sessions.

**ENRICHED ENGLISH II
HS 1040**

Grades 9-10
1 Unit - 2 Semesters

Prerequisite: English I

Course Description: This course is designed to engage students planning on a college experience the opportunity to target the reading and writing skills and habits that will help make that a success. The first semester focuses on college-focused grammar and writing skills, while the second semester focuses on rigorous literary analysis to prepare for the text-evidence focus of college work.

**ENGLISH III
HS1070**

Grade 10-12
1 Unit - 2 Semesters

Prerequisite: English I and English II

Course Description: This course is designed to engage students in activities surrounding literary analysis, academic writing, Socratic discussion, and verbal communication. Students will explore fiction and nonfiction texts spanning roughly 300 years of American authorship, while also understanding how each piece shaped American literary periods. Using a variety of methods, students will also receive academic writing instruction focusing on thesis development, diction, grammar, paragraph organization, and research. Students will also be asked to make judgements and draw conclusions while supporting those ideas with solid evidence.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

EXPOSITORY WRITING
HS1095

Grades 10-12
0.5 Unit - 1 Semester

Prerequisite: English I and English II.

Course Description: This course is designed to engage students in work to develop more effective writing through work in sentence structure, paragraph development, modes of essay development and the writing process. They also learn to write a variety of thesis statements and develop longer compositions with a central idea, detailed support, and appropriate diction. Summary writing about articles on current issues, original essays in response to issues and analysis of selected material provide learning experiences. The writing in this course is designed to be preparation for college-level writing.

AFRICAN AMERICAN LITERATURE
HS1155

Grades 10-12
0.5 Unit - 1 Semester

Prerequisite: English I and English II.

Course Description: This course is designed to engage students in deep literary analysis and reading as a preparation for college-level reading. This course surveys African American literature from pre-1600 to the present. Students read novels, short stories, plays, non-fiction, primary documents, and poetry to examine literary styles and philosophies and to consider the Black experience in America over the scope of American history. Students become acquainted with literary figures and significant pieces of writing useful in college. Emphasis is on reading, discussing, and writing.

AMERICAN LITERATURE
HS1145

Grades 10-12
0.5 Unit - 1 Semester

Prerequisite: English I and English II

Course Description: This course is designed to engage students in deep literary analysis and reading as a preparation for college-level reading. This course surveys American literature. Students read novels, short stories, plays and poetry to examine literary styles and philosophies and to determine the contemporary values and problems. Students become acquainted with literary figures and significant pieces of writing useful in college. Emphasis is on reading, discussing, and writing.

ENGLISH IV
Women's Literature and Composition
HS1285

Grades 11-12
0.5 Unit - 1 Semester

Prerequisite: English I, English II, and English III or Expository Writing and Literature

Course Description: This exit-level course is suggested for exiting students who wish to better or maintain their skills in English in preparation for careers. The course will focus on skills of reading and writing with a focus on literature written by women across the spectrum of eras and backgrounds. Example texts might include *The Bell Jar*, *The Awakening*, *The Color Purple*, *The Handmaid's Tale*, or *My Antonia*.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

ENGLISH IV
Multicultural World Literature and
Composition
HS1385

Grades 11-12
0.5 Unit - 1 Semester

Prerequisites: English I, English II, and English III or Expository Writing and Literature

Course Description: This exit-level course is suggested for exiting students who wish to better or maintain their skills in English in preparation for careers. The course will focus on skills of reading and writing using literary pieces from literature of the last two decades from around the world including the various cultures and backgrounds that make up America today. Example texts include *The Hunger Games*, *Things Fall Apart*, *Life of Pi*, *One Hundred Years of Solitude*, *Song Yet Sung*, *The Devil's Highway*, and *Salvage the Bones*.

ENGLISH IV
Science Fiction and Composition
HS1785

Grades 11-12
0.5 Unit - 1 Semester

Prerequisites: English I, English II, and English III or Expository Writing and Literature

Course Description: This exit-level course is suggested for exiting students who wish to better or maintain their skills in English in preparation for careers. The course will focus on skills of reading and writing using literary pieces from the genre of Science Fiction and mythology. Example texts include *1984*, *Slaughterhouse Five*, *Dune*, and *Ready Player One*.

W/DC
COMPOSITION 1
HS1260W

Grade 11-12
1 Unit - 2 Semesters

Prerequisite: Expository Writing and Literature.

Course Description: This course introduces students to college-level reading, writing, and discourse analysis: it engages students in the analysis and creation of texts that reveal multiple perspectives about specific rhetorical situations and cultural issues. In addition to learning how to revise by analyzing their own writing, students will learn to edit their own work and use proper academic documentation. Students may earn college credit from a partner university, if students enroll through the university. (Tuition cost is determined by the university.)

W/DC
COMPOSITION 2
HS1080W

Grade 12
1 Unit - 2 Semesters

Prerequisite: Composition I

Course Description: This course works to further develop student's skills in analyzing and writing texts with an emphasis on the use of research, synthesizing ideas from multiple texts, and generating arguments through text analysis. Students may earn college credit from a partner university, if students enroll through the university. (Tuition cost is determined by the university.)

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

**JOURNALISM/NEWSPAPER I
HS1170**

Grade 10, 11, and 12
1 Unit - 2 Semesters

**JOURNALISM/NEWSPAPER II
HS1270**

Grade 11 and 12
1 Unit - 2 Semesters

Prerequisite: Students selected for course by application

Course Description: This course develops skills in critical thinking and time management as well as photography, design, and effective writing. Students who enroll in this course will be responsible for publishing the student newspaper. Instruction focuses on news, editorials, features, and sports stories. Students will gain interviewing, writing, editing, design, and photography skills. Students will use the Adobe Creative Suite to produce industry-standard publications, including InDesign and Photoshop. Newspaper experience promotes both teamwork and individual skill development. Credit cannot count toward English graduation requirement. A student may enroll in more than one semester and may accumulate 2 units of credit.

**ELECTRONIC JOURNALISM I
HS1150**

Grade 10, 11, and 12
0.5 Unit - 1 Semester

**ELECTRONIC JOURNALISM II
HS1250**

Grade 11 and 12
0.5 Unit - 1 Semester

Prerequisite: Students selected for the course by application

Course Description: This course is designed to teach students the skills necessary for telling journalistic stories using video and audio. The curriculum focuses on the methods and techniques for reporting, producing, and delivering news and entertainment programming via video/film and creating marketing materials for RQS Social Media outlets. This course provides introductory concepts in professional broadcast journalism, editing, producing, and directing. The curriculum includes instruction in the principles of filming; broadcast reporting; on- and off-camera and microphone procedures and techniques; program, sound, and video/film editing; program design and production; and an introduction to media law and policy, and professional standards and ethics. Students will focus on covering events and topics of interest to the student population and the greater Raytown community. This course requires students to collaborate with other students to create meaningful content, attend various events outside of school hours, and be responsible for the use and care of various professional equipment. It is an elective credit.

**SCHOOL PUBLICATIONS I
HS1180**

Grade 10, 11 and 12
1 Unit - 2 Semesters

**SCHOOL PUBLICATIONS II
HS1280**

Grade 11 and 12
1 Unit - 2 Semesters

Prerequisite: Students selected for the course by application

Course Description: This class is responsible for creating and publishing the yearbook. In addition to critical thinking, time management, teamwork and commitment, this class teaches photography, writing, editing, and design. This is a workshop course that encourages students to interact with their classmates and take on leadership roles. There are student-led staff meetings during class periods. In-class work includes artwork, layout,

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

typography, copywriting, proofreading, photography, selling and circulation. Instruction focuses on magazine-style writing. Students will gain interviewing, writing, editing, design, and photography skills. Students will also learn marketing skills by selling advertisements. Students will use the Adobe Creative Suite to produce industry-standard publications including InDesign and Photoshop. Credit cannot count toward English graduation requirement. A student may enroll in School Publications/Yearbook more than one semester.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

ENGLISH LANGUAGE DEVELOPMENT (ELD)

Placement is by Director of Student Programs and/or ELD teacher, based on WIDA test scores.

MIDDLE SCHOOL

ELD BEGINNING LANGUAGE ARTS

Grade 6-8
2 Semesters

May be repeated until ELD teacher and/or Director of Student Programs recommend student enroll in ELD Intermediate Language Arts. These students may also be enrolled in ELD Content Area Reading Lab.

Course Description: This ELA course, taught by an ELL-certified teacher, is designed to support students who have recently arrived in the United States and are just beginning to understand English. Students will work with a variety of materials to develop beginning social English skills and academic English skills in Language Arts, Math, Science, and Social Studies. The course will establish a foundation of English language skills in the domains of listening, speaking, reading, and writing. The instruction is in English, but sometimes the students will use their native language to help explain the lesson to others. Students may also enroll in ELD Content Area Reading Lab based on recommendation of ELD teacher and/or Director of Student Programs.

ELD INTERMEDIATE ENGLISH LANGUAGE ARTS

Grade 6-8
2 Semesters

May be repeated until exited from the ELD program.

Course Description: This ELA course, taught by an ELL-certified teacher, is designed for students to improve their English-language skills while focusing on reading, writing, listening, and speaking. Students will collaborate with peers on a daily basis through interactive writing sessions, reader's and writer's workshop, and analytical writings. Online individual curriculum content parallels regular English Language Arts classes on a 3-year rotating basis: this content may be differentiated in order to provide additional support. Course placement is based on WIDA test scores and recommendation of ELD teacher and/or Director of Student Programs.

ELD CONTENT AREA READING LAB

Grade 6-8
2 Semesters

May be repeated until exited from the ELD program.

Course Description: This elective course, taught by an ELL-certified teacher, is designed to extend and develop reading vocabulary and topical concepts that will assist ELD students to succeed in content area classes. The class lessons focus on context-rich vocabulary and background information taught through mini-lessons in the academic subjects of English, Social Studies, Science and Math. This class is taught in large and small group instruction, while focusing on individualized support in reading and content area understanding and class grade management. It is offered in addition to their regular grade level and exploratory classes. Course placement is based on WIDA test scores and recommendation of ELD teacher and/or Director of Student Programs.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

HIGH SCHOOL

ELD BEGINNING LANGUAGE ARTS HS1014

Grade 9-12
1 Unit - 2 Semesters

May be repeated for credit until ELD teacher and/or Director of Student Programs recommend student enroll in ELD Intermediate Language Arts. These students may also be enrolled in ELD Beginning Language Lab and ELD Content Area Reading Lab.

Course Description: This ELA course, taught by an ELL-certified teacher, is designed to support students who have recently arrived in the United States and are just beginning to understand English. Students will work with a variety of materials to develop beginning social English skills and academic English skills in Language Arts, Math, Science, and Social Studies. The course will establish a foundation of English language skills in the domains of listening, speaking, reading, and writing. The instruction is in English, but sometimes the students will use their native language to help explain the lesson to others. Students in this class may also enroll in ELD Beginning Language Arts Lab HS1114 and ELD Content Area Reading Lab HS1024/HS1029. Course placement is based on WIDA test scores and recommendation of ELD teacher and/or Director of Student Programs.

ELD BEGINNING LANGUAGE ARTS LAB HS1114

Grade 9-12
1 Unit - 2 Semesters

May be repeated for elective credit until ELD teacher and/or Director of Student Programs recommend student enroll in ELD Intermediate Language Arts.

Course Description: Taught by an ELL-certified teacher, this second ELD course for beginners, more individualized than ELD Beginning English Language Arts HS1014, is an elective in which students may continue to work on vocabulary, grammar, and reading activities. Students enrolled in ELD Beginning Language Arts Lab work on independent assignments in conjunction with their other ELD classes(s). Students in this class may also enroll in ELD Beginning English Language Arts HS1014 and ELD Content Area Reading Lab HS1024/HS1029. Course placement is based on WIDA test scores and recommendation of ELD teacher and/or Director of Student Programs.

ELD INTERMEDIATE LANGUAGE ARTS HS1034

Grade 9-12
1 Unit - 2 Semesters

May be repeated for credit until exited from the ELD program. ELD Intermediate Language Arts students may also be enrolled in ELD Content Area Reading Lab.

Course Description: This ELA class, taught by an ELL-certified teacher, is for those students who are more advanced. Students will expand their vocabulary, work with more complex grammar, and learn to read literature in English in order to express themselves better in English. The course objectives mirror those of the mainstream ELA courses in order to prepare ELD students to transition into those courses. The instruction is in English but students will sometimes use their native language to help explain the lesson to others. These students may also take ELD Content Area Reading Lab HS1024/HS1029. Course placement is based on WIDA test scores and recommendation of ELD teacher and/or Director of Student Programs.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

May be repeated for credit until students exit from the ELD program.

Course Description: This elective course, taught by an ELL-certified teacher, is for all ELD students - beginners, intermediate, and advanced who still need support in the academic areas of mainstream classes. This course is designed to extend and develop reading vocabulary and topical concepts that will assist ELD students to succeed in content area classes. The lessons rotate through core academic subjects, exposing students to context-rich vocabulary and background information to help them to be more successful in their regular classes. Also, in this class, the teacher, will help students understand instructions from other classes, begin homework and finish classwork and assessments from their other classes so that students have the opportunity to better access the content of their classes. Course placement is based on WIDA test scores and recommendation of ELD teacher and/or Director of Student Programs.

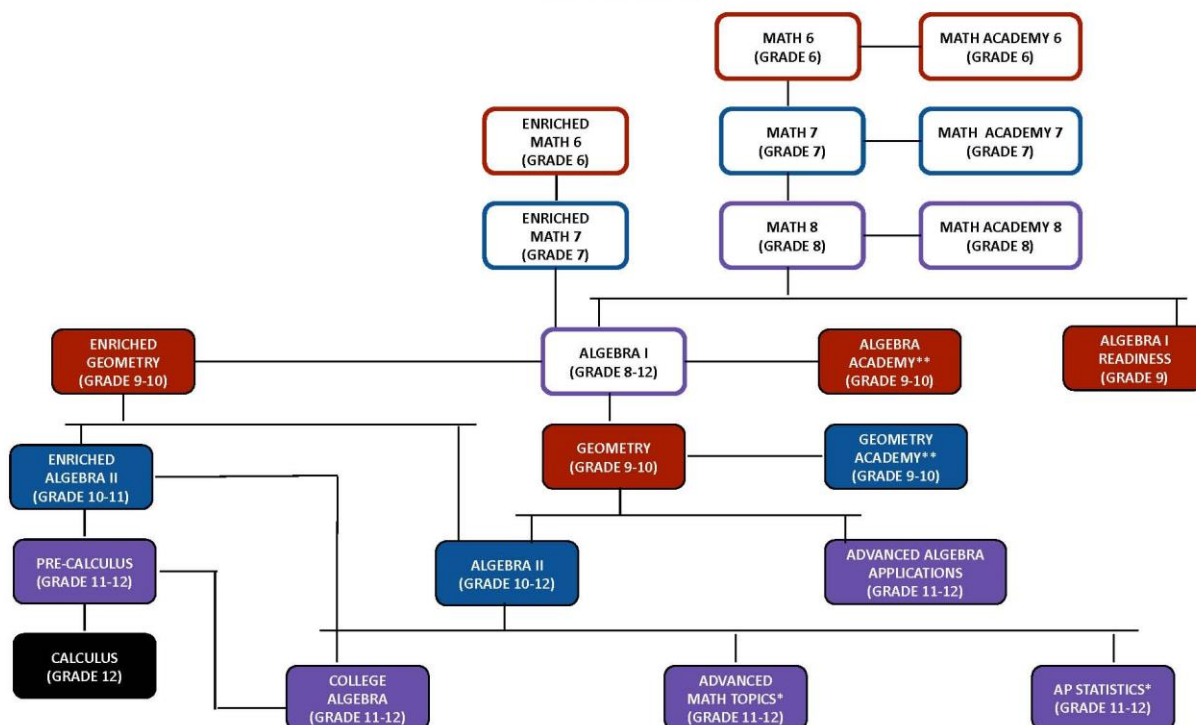
C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

MATHEMATICS

MATHEMATICS



* MAY BE ENROLLED IN THESE CLASSES WITH OTHER MATH COURSES ON THE SAME LEVEL.
 ** TEACHER MAY RECOMMEND ALGEBRA I READINESS (HS3005) TO STUDENTS WHO ARE OFF-CYCLE OF THE YEARLY COURSE

STUDENTS MAY SUBSTITUTE A PROJECT LEAD THE WAY (PLTW) COMPUTER SCIENCE COURSE FOR ONE (1) MATH OR SCIENCE CREDIT. PLEASE SEE COUNSELOR FOR MORE INFORMATION.

MIDDLE SCHOOL

MATH 6

Grade 6
2 Semesters

Course Description: Math 6 includes the study of ratios and proportional relationships; number system and operations; expressions, equations, and inequalities; geometry and measurement; and data analysis, statistics and probability. Math 6 is designed to develop students' mathematical knowledge, understanding, and skills through structured problem solving. Math 6 strengthens students' ability to reason and communicate mathematical ideas while developing a productive disposition toward the discipline of mathematics. It enhances students' awareness and appreciation for connections among mathematical strands as well as between math and other disciplines.

ENRICHED MATH 6

Grade 6
2 Semesters

Course Description: Enriched Math 6 is designed to develop foundational algebraic reasoning skills and rational number concepts. In addition to strengthening students' ability to reason and communicate mathematical ideas, Enriched Math 6 engages students in opportunities to interpret, create and justify mathematical relationships in the context of proportions, rational number, equations, inequalities, geometry, measurement, and data. This course includes Math 6 and Math 7 topics in preparation for the Enriched Math 7 course.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

MATH 7

Grade 7
2 Semesters

Course Description: Math 7 includes the in-depth study of ratio and proportional relationships including rates, percentages, and constants of proportionalities. Math 7 is designed to develop students' mathematical understanding of number concepts by working with integers in expressions, equations, and inequalities. Data analysis, geometric concepts and probability are also studied within this course. Technology is used to enhance mathematics learning and allow for creativity in problem solving in Math 7. Math 7 strengthens students' ability to communicate mathematical ideas through modeling, reason quantitatively and abstractly, and justify solutions while critiquing the reasoning of others through problem solving.

ENRICHED MATH 7

Grade 7
2 Semesters

Course Description: Enriched Math 7 is designed to prepare students for a formal algebra course through the development of algebraic reasoning skills and rational number concepts. In addition to strengthening students' ability to reason and communicate mathematical ideas, Enriched Math 7 engages students in opportunities to interpret, create and justify mathematical relationships in the context of proportions, rational numbers, equations, inequalities, geometry, measurement, and data. This course is a continuation of topics from Enriched Math 6 in preparation for Algebra.

MATH ACADEMY

Grade 6, 7 or 8
2 Semesters

Course Description: Middle school Math Academy is a math support class for students concurrently enrolled in Math 6, Math 7 or Math 8. The course provides additional instructional time to master math skills necessary to be successful in mathematics. Middle school Math Academy offers tutorial support, skills review, pre-teaching of new concepts, and re-teaching of current math concepts. Test scores, grades, and teacher recommendations will determine enrollment in this class. Students will be enrolled in this class who have had difficulty being successful in mathematics and demonstrate significant weaknesses in fundamental mathematics skills. Math Academy is offered for grades 6, 7 and 8 and taken in addition to the grade level math class.

MATH 8

Grade 8
2 Semesters

Course Description: Math 8 course includes the study of operations with real numbers, problem solving, algebra, geometry, and data analysis. Math 8 is a prerequisite for the Algebra 1 Course. The language and properties of algebra are introduced with emphasis on problem solving and such topics as patterns, multiple representations, Pythagorean Theorem, functions, and solving linear equations. Students apply pre-algebraic skills and concepts through the use of technology linking numeric, verbal, graphic, and symbolic representations.

ALGEBRA I

Grade 8
2 Semesters

Prerequisite: Math 8 or demonstration of equivalent skills

Course Description: Algebra 1 provides students opportunity to develop algebraic reasoning, skills and concepts necessary to provide a foundation for future mathematics courses. Students will explore writing, solving, and

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

graphing equations and inequalities of linear, exponential, and quadratic functions. The language and properties of algebra are reinforced through such topics as relations and functions, systems of equations, polynomials and factoring, and probability and data analysis as applied to practical situations. This course offers experiential learning with an emphasis on problem solving and collaboration. Students will link numeric, verbal, graphic, and symbolic representations of algebraic concepts.

HIGH SCHOOL

Support Mathematics Courses

Students may earn 0.5 math credit per semester for a support course with a maximum of 1 total math credit. Any credit earned above that will be considered elective credit towards graduation. Enrolling in these courses requires a teacher recommendation.

Students may substitute a Project Lead the Way (PLTW) Computer Science course for a Math or Science credit – please see a school counselor for more information.

ALGEBRA I READINESS HS3005

**Grade 9
0.5Unit - 1 Semester**

Course Description: Algebra I Readiness offers focused instruction and practice on prerequisite skills in order to prepare students for Algebra I. Test scores, grades, and teacher recommendations determine enrollment in this class. Enrollment includes students who have had difficulty being successful in all or part of Math 8. Algebra I Readiness includes the study of operations with real numbers, problem solving, patterns, solving equations and inequalities, recognizing and solving mathematical expressions, factoring, interpreting and graphing points, recognizing and solving formulas, calculating with percents, ratios and proportions and using mathematical vocabulary. This is a Support Mathematics Course; see the description above regarding mathematics credit.

ALGEBRA MATH ACADEMY HS3040

**Grade 9-10
1 Unit - 2 Semesters**

Co-Enrollment: Algebra I

Course Description: Algebra Math Academy is a math support class for students concurrently enrolled in Algebra 1. The course provides additional instructional time to master math skills necessary to be successful in Algebra I. Algebra Math Academy offers tutorial support, pre-algebra skills review, pre-teaching of new algebra concepts, and re-teaching of current algebra concepts. Test scores, grades, and teacher recommendations determine enrollment in this class. Students will be enrolled in this class who have had difficulty being successful in previous math courses and demonstrate significant weaknesses in fundamental skills. A student may only enroll in Algebra Math Academy once during high school even if the student fails the course. This is a Support Mathematics Course; see the description above regarding mathematics credit in support courses.

Co-Enrollment: Geometry

Course Description: Geometry Math Academy is a math support class for students concurrently enrolled in Geometry. The course provides additional instructional time to master math skills necessary to be successful in Geometry. Geometry Academy offers tutorial support, algebra skills review, pre-teaching of new geometry concepts, and re-teaching of current geometry concepts. Test scores, grades, and teacher recommendations determine enrollment in this class. Students will be enrolled in this class who have had difficulty being successful in previous math courses and demonstrate significant weaknesses in fundamental skills. A student may only enroll in Geometry Math Academy once during high school even if the student fails the course. This is a Support Mathematics Course; see the description above regarding mathematics credit in support courses.

Mathematics Courses

Course Description: The Algebra 1 course provides students opportunity to develop algebraic reasoning, skills and concepts necessary to provide a foundation for future mathematics courses. Students will explore writing, solving, and graphing equations and inequalities of linear, exponential, and quadratic functions. The language and properties of algebra are reinforced through such topics as relations and functions, systems of equations, polynomials and factoring, and probability and data analysis as applied to practical situations. This course offers experiential learning with an emphasis on problem solving and collaboration. Students will link numeric, verbal, graphic, and symbolic representations of algebraic concepts.

Prerequisite: Algebra I

Course Description: The Geometry course formalizes what students have learned about geometry in the middle grades with a focus on reasoning and making mathematical arguments. The fundamentals of algebra are applied in the development of geometric phenomena. The student will develop precision and clarity in presenting logical arguments as well as making connections between mathematics in the world around them by measuring, reasoning, and applying geometrical ideas. Students in this course study properties and applications of common geometric figures in two and three dimensions. High school Geometry also includes the study of transformations, right triangle trigonometry, circles, and the application of probability. Inductive and deductive thinking skills are used in problem solving situations and applications to the real world are stressed. An emphasis is placed on writing proofs to solve (prove) properties of geometric figures.

ENRICHED GEOMETRY
HS3160

Grade 9-10
1 Unit - 2 Semesters

Prerequisite: 8th grade Algebra I with a grade of B or higher or 9th grade Algebra I teacher recommendation

Course Description: Enriched Geometry is designed to challenge students beyond the basic application of geometric concepts developed within a regular geometry course. This course demands strong algebraic skills and academic discipline. Formulating what students have learned in middle school geometry, this course focuses on reasoning and making mathematical arguments. The fundamentals of algebra are applied in the development of geometric phenomena. The student will develop precision and clarity in presenting logical arguments as well as making connections between mathematics in the world around them by measuring, reasoning, and applying geometrical ideas. Students in this course experience in depth exploration of proofs and applications through the study of transformations, right triangle trigonometry, circles, and the application of probability. Inductive and deductive thinking skills, visualization, spatial reasoning and geometric modeling are used in problem solving situations while applications to the real world are stressed. Students develop their ability to construct formal, logical arguments in geometric settings and multi-step problems.

ALGEBRA II
HS3220

Grade 10-12
1 Unit - 2 Semesters

Prerequisite: Geometry

Course Description: Algebra II extends the essential ideas of Algebra I and Geometry in order to make sense of and solve math problems in context. The study of equations, inequalities, graphs and their applications will relate mathematics to the world and include the following topics: polynomial, rational, radical, exponential, and logarithmic, as well as inferences and conclusions from data. Algebra II students hone their abilities to model situations and expand their understanding of problems to include complex solutions. The content of this course is important for success on both the ACT and college entrance exams.

ENRICHED ALGEBRA II
HS3230

Grade 10-11
1 Unit - 2 Semesters

Prerequisite: Enriched Geometry with a grade of B or higher or 10th grade Geometry teacher recommendation

Course Description: Enriched Algebra II is designed to challenge students beyond the basic application and integration of algebraic and geometric concepts expected in a regular Algebra II course. This course demands strong algebraic skills, geometric reasoning, and academic discipline. The essential ideas of Algebra 1 and Geometry are extended in order to make sense of and solve problems in context. The study of equations, inequalities, graphs and their applications will relate mathematics to the world and include the following topics: polynomial, rational, radical, exponential, and logarithmic as well as inferences and conclusions from data. Students hone their abilities to model situations and expand their understanding of problems to include complex solutions.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

**ADVANCED ALGEBRA APPLICATIONS:
QUALITATIVE REASONING FOR NON-STEM PATHWAYS
HS3090**

Grade 11-12
1 Unit - 2 Semesters

Prerequisite: Geometry

Course Description: Advanced Algebra Applications is an upper level math course for students who are on non-STEM career pathways. This course will focus on the goals that are essential for mathematical ideas needed in core-required college coursework, careers and daily life. The focus of this course will be on critical thinking with numerical or mathematical information and less on formal calculations. The skills and activities in this course will emphasize quantitative reasoning, analysis and communication so that students possess strong skills in critical and logical thinking and can make wise personal decisions, navigate the media and be informed citizens. After taking this course, students will be more prepared for their next steps, non-STEM college/career pathways and everyday life.

**ADVANCED MATH TOPICS
HS3240**

Grade 12
1 Unit - 2 Semesters

Prerequisite: Algebra II or Advanced Algebra Applications – grade of C or higher

Course Description: Advanced Math Topics is a study of topics from discrete mathematics and statistics, with special emphasis placed on attaining a better understanding of the world around us and providing mathematical methods for thinking critically about issues. It is intended to prepare students to enter the world of work in the twenty-first century. Topics such as the mathematics of fairness and social choice, problem solving using graph theory, the digital revolution, the application of appropriate statistical methods, and the mathematical modeling of patterns related to shape, growth, and form are explored.

**W/DC
COLLEGE ALGEBRA
HS3340W**

Grade 11-12
1 Unit - 2 Semesters

Prerequisite: Enriched Algebra II or Enriched Algebra II grade of B or higher, grade of C must have teacher recommendation

Course Description: In College Algebra, students work at a level of difficulty that demands academic discipline for a successful experience. This course is the standard course in college-level algebra. Topics include basic concepts of algebra; linear, quadratic, rational, radical, logarithmic, exponential, and absolute value equations; linear, and absolute value inequalities, and complex number system; graphs of linear, polynomial, exponential, logarithmic, rational, and absolute value functions; inverse functions; operations and composition of functions; systems of equations; sequences and series; and the binomial theorem. Students may earn college credit from a partner university, if students enroll through the university. (Tuition cost is determined by the university.)

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

W/DC
PRE-CALCULUS
HS3310W

Grade 11-12
1 Unit - 2 Semesters

Prerequisite: Enriched Algebra II - grade of C or higher or College Algebra - grade of B or higher

Course Description: Pre-Calculus is designed to prepare students for calculus and abstract algebra. There is a rigorous coverage of the real number system, algebra polynomials, the complex number system, trigonometry and vectors. Students may earn college credit from a partner university, if students enroll through the university. (Tuition cost is determined by the university.) A graphing calculator is highly recommended. The district uses the TI-84 graphing calculator.

W/DC
CALCULUS
HS3430W

Grade 12
1 Unit - 2 Semesters

Prerequisite: Pre-Calculus - grade of C or higher

Course Description: Calculus studies both differential and integral calculus and is intended to be equivalent to a college level Calculus 1 course. This course will cover the standards for the Advanced Placement Calculus AB course including limits and continuity, derivatives, derivative applications, definite integrals, differential equations, and applications of definite integrals. Students who successfully complete the course are prepared to take the AP Calculus examination and have the ability to earn college credit by passing the exam. Students may earn college credit from a partner university, if students enroll through the university. (Tuition cost is determined by the university.) A graphing calculator is highly recommended. The district uses the TI-84 graphing calculator.

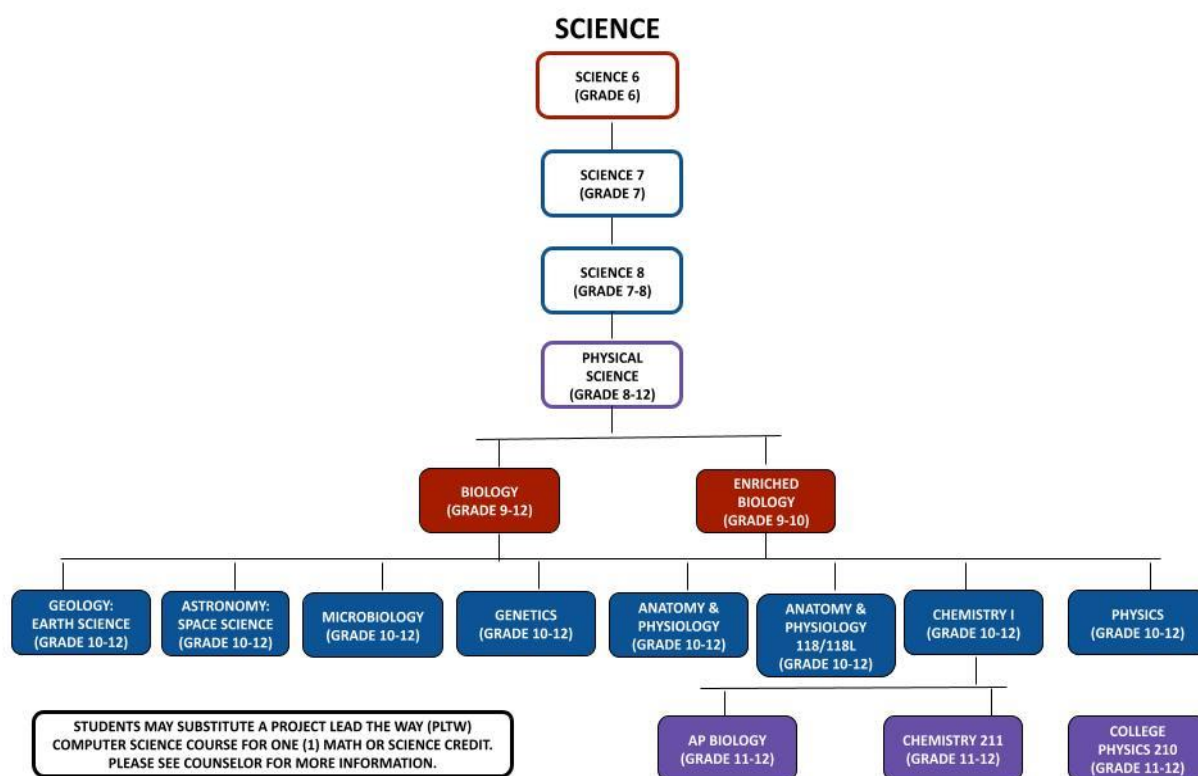
W
STATISTICS
HS3120W

Grade 11-12
1 Unit - 2 Semesters

Prerequisite: Algebra II or Enriched Algebra II- grade of C or higher

Course description: Statistics introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The major topics include exploring data, sampling and experimentation, anticipating patterns, and statistical inference and hypothesis testing. Students who successfully complete the course are prepared to take the AP Statistics examination and have the ability to earn college credit by passing the exam.

SCIENCE



MIDDLE SCHOOL

SCIENCE 6

Grade 6
2 Semesters

Course Description: This course is designed to cover scientific processing skills to study life science concepts. Areas of emphasis include planning and conducting investigations, cell basics, body systems, genetics basics, traits of organisms, ecology, and human impacts on the environment. Students will learn how to use evidence to justify their claims and apply reasoning. Students will learn how to distinguish between living and non-living things and the systems within organisms that help keep them alive. Students will also learn how humans impact organisms and their environment.

SCIENCE 7

Grade 7
2 Semesters

Course Description: This course is designed to cover scientific processing skills to study and apply concepts of physical science. Areas of emphasis include planning and conducting investigations, matter and its interactions, chemical reactions, force and motion, energy and waves. Students will learn how to use evidence to justify their claims and apply reasoning. Students will learn how the physical world, matter, and energy influence the world around them. Advanced seventh grade students may take Science 8 in seventh grade. Successful completion of Science 8 in seventh grade (C or better) allows them to take Physical Science as an eighth grader.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

SCIENCE 8

Grade 8
2 Semesters

Course Description: This course is designed to cover scientific processing skills to study a combination of physical, life, and earth science concepts. Areas of emphasis are Earth and space science, including the Earth-moon-sun system, atmosphere, weather & climate, and Earth's structure and function. Students will learn how to use evidence to justify their claims and apply reasoning. Students will also learn about all of the factors that help shape our weather and geological history of the Earth from 4.2 BYS ago to the present. For advanced seventh grade students, successful completion will allow selected students to enroll in Physical Science during their eighth grade year.

PHYSICAL SCIENCE

Grade 8
2 Semesters

Prerequisite: Students selected by application, grades, test scores, and teacher recommendation.

Course Description: This course is designed to provide the prerequisite science background for future secondary courses. This course will cover the scientific method as it serves as the underlying theme of the Physical Science curriculum. Students will learn to gather evidence, formulate arguments, and apply scientific concepts to real world scenarios. For Physics, students will learn to apply math to formulate patterns of interaction between energy, forces, and motion. For Chemistry, students will learn to evaluate periodic trends, physical properties, chemical properties, and understand how and why chemical reactions occur. Students will also learn to evaluate the interdependence of science and technology, and the impact human activity has on the world in which we live. Students will be expected to maintain a B average at the end of each semester to continue in this course.

HIGH SCHOOL

Students may substitute a Project Lead the Way (PLTW) Computer Science course for a Math or Science credit – please see counselor for more information.

PHYSICAL SCIENCE HS4010

Grade 9-12
1 Unit - 2 Semesters



Course Description: This course provides the prerequisite science background for future secondary courses. The framework of the scientific method services as the underlying theme of the Physical Science curriculum. Chemistry and Physics are the two content area topics of emphasis: students will be able to gather evidence, formulate arguments, and apply scientific concepts to real world scenarios. For Physics, students apply math to formulate patterns of interaction between energy, forces, and motion. Chemistry emphasizes periodic trends, physical properties and chemical properties, and understanding how and why chemical reactions occur. Students will evaluate the interdependence of science and technology, and the impact human activity has on the world in which we live, including an emphasis on literacy through current articles, graphs, charts, and data analysis. Instruction includes active learning, labs, discussion, and lecture.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

BIOLOGY
HS4210

Grade 9-12
1 Unit - 2 Semesters

Prerequisite: Physical Science

Course Description: This course is a required introductory level course that unveils the processes of life on all scales. Students will explore a variety of life science themes ranging from Ecology, Environmental Science, Cell Biology, Genetics, Evolution and Molecular Biology. Each of the life science themes will be instructed with the intention of strengthening our students' scientific inquiry skills through a variety of active learning labs, discussion, research and argumentative writing.

ENRICHED BIOLOGY
HS4230

Grade 9-10
1 Unit - 2 Semesters

Prerequisite: Physical Science with grade of B or higher and teacher recommendation

Course Description: This course is designed to challenge students and prepare them for advanced life science courses such as AP Biology. Enriched Biology will prioritize and focus deeply on four core areas: ecological systems, evolution, cellular systems, and genetics. Enriched Biology students engage deeply with science practices to construct and revise their biological knowledge as well as cross-disciplinary reading, writing, and data-analysis skills. Students make meaningful connections among the structures, processes, and interactions that exist across biological systems—from cells to ecological communities. Enriched Biology motivates students to be active participants in analyzing real-world phenomena and to collaborate productively with their peers in dialogue, investigations, and problem solving.

GEOLOGY: EARTH SCIENCE
HS4025

Grade 10-12
.5 Unit - 1 Semester

Prerequisite: Physical Science & Biology

Course Description: This course is divided into three major components: Earth's Materials and Systems, System Interactions, and Human Impacts on Earth's Systems. Topics include, but are not limited to, Earth's natural resources, plate tectonics and internal forces, oceans, weather, and climate. Each area of study utilizes inquiry-based learning to understand and apply concepts to everyday life and real world issues. Instruction include activities, non-fiction reading, and interactive lecture.

ASTRONOMY: SPACE SCIENCE
HS4535

Grade 10-12
.5 Unit - 1 Semester

Prerequisite: Physical Science & Biology

Course Description: This course introduces students to the composition and structure of the Universe and explores interactions with Earth systems. Topics include but are not limited to, historical astronomy, astronomical instruments, the celestial sphere, the solar system, the Earth as a system in space, the Earth/Moon System, the Sun as a star, and the stars beyond. Each area of study utilizes inquiry-based learning to understand and apply concepts to everyday life and real world issues. Instructions include inquiry activities, non-fiction reading, and interactive lecture.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

MICROBIOLOGY HS4235

Grade 10-12
0.5 Unit - 1 Semester

Prerequisite: Biology

Course Description: Offered during the spring semester, this course classifies microbes based on genetic similarities, protein structures, anatomical features, and patterns of development. Students develop an understanding that microbes play important ecological roles in the environment and can significantly affect human health. An overview of epidemiology lays the foundation for investigating and analyzing current events in microbiology. Instruction includes discussion, current events, non-fiction reading, and a strong emphasis on laboratory settings.

GENETICS HS4225

Grade 10-12
0.5 Unit - 1 Semester

Prerequisite: Biology

Course Description: Offered during the fall semester, this course explores the structure and function of DNA, which is contained in all living organisms. Students investigate how chromosomes and cellular components transfer hereditary information to offspring during reproduction to predict the inheritance of traits. An analysis of cancer provides a thorough explanation for its occurrence and students make connections to what environmental factors alter specific genes (epigenetics). Current events for genetic engineering and technology are identified due to the rapidly growing impact of genetics on society. Instruction includes discussion, current events, non-fiction reading, and a strong emphasis on laboratory settings.



CHEMISTRY I HS4410

Grade 10-12
1 Unit - 2 Semesters

Prerequisite: One unit credit each of both Physical Science and Geometry

Course Description: This lab-based course expands on the Chemistry content identified in Physical Science. Students apply the scientific method to record data from performed experiments that reinforce concepts taught in class. The properties of elements on the periodic table are thoroughly examined to develop an understanding of chemical bonding. Algebra will be applied to various types of chemical problems. Students will learn to predict the amount of a product or products resulting from a reaction with a given amount of reactants (stoichiometry). Upon completion of Chemistry I, students are able to describe real-world processes at the molecular level. Instruction includes lecture, discussion, applied algebra, and a strong emphasis on laboratory settings.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

W/DC
CHEMISTRY 211
HS4430W

Grade 11-12
1 Unit - 2 Semesters

Prerequisite: Chemistry I

Course Description: This course covers the same content as Chemistry I, but probes further into each concept. This course incorporates a high level of math and challenging scenarios similar to a college chemistry class. Self-direction and motivation are essential for this course to appropriately complete assignments and prepare for exams. This class is appropriate for an individual interested in pursuing a degree in science. Instruction includes lecture, applied algebra, and laboratory investigations. Students may earn college credit from a partner university, if students enroll through the university. (Tuition cost is determined by the university.)

W
PHYSICS
HS4510W

Grade 10-12
1 Unit - 2 Semesters

Prerequisite: Physical Science and must have completed or currently be enrolled in Algebra II

Recommended: Chemistry

Course Description: This course elaborates on concepts introduced in Physical Science. This is a one year course designed to study topics in both classic and modern physics. First semester is the study of kinematics, the motion and interaction of objects on a macroscopic scale. Second semester consists of the study of wave motion, light, sound, and electricity. Instruction includes lecture, applied algebra, and laboratory investigations, with a focus on relating the topics back to the real world. This course is designed to prepare students for a college level, algebra based, physics course.

W/DC
COLLEGE PHYSICS 210
HS4520W

Grade 11-12
1 Unit - 2 Semesters

Prerequisite: Algebra 2

Course Description: This course includes introductions to kinematic motion / mechanics, wave motion, sound, heat, and thermodynamics. Other topics may be included depending on the students' interest. This course should be especially useful to students who need an algebra based physics class to fulfill general education requirements as well as students who are interested in pursuing careers in the science and mathematics fields. Students may earn college credit from a partner university, if students enroll through the university. (Tuition cost is determined by the university.)

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

**ANATOMY AND PHYSIOLOGY
HS4240**

Grade 10-12
1 Unit - 2 Semesters

Prerequisite: Biology

Course Description: This course is taught in a systems-based manner that covers human anatomy. The systems covered are integumentary (skin), muscular, skeletal, nervous, digestive, respiratory, cardiovascular, reproductive, and urinary systems. Analysis of the system relationships occurs to develop a clear representation of how the human body functions. This course provides hands-on, applied experience such as eliciting patellar reflexes, measuring blood pressure, feeling for a pulse and mammalian dissection. This course is essential for anyone aspiring to work in the medical field. Instruction includes anatomical models, dissection, lecture, composition, and extensive identification.

**W/DC
ANATOMY AND PHYSIOLOGY 118
HS4240W**

Grade 10-12
1 Unit - 2 Semesters

Prerequisite: Biology

Course Description: This course is taught in a systems-based manner that covers human anatomy. The systems covered are integumentary (skin), muscular, skeletal, nervous, digestive, respiratory, cardiovascular, reproductive, and urinary systems. Analysis of the system relationships occurs to develop a clear representation of how the human body functions. This course provides hands-on, applied experience such as eliciting patellar reflexes, measuring blood pressure, feeling for a pulse and mammalian dissection. This course is essential for anyone aspiring to work in the medical field. Instruction includes anatomical models, dissection, lecture, composition, and extensive identification. Students may earn college credit from a partner university, if students enroll through the university. (Tuition cost is determined by the university.)

**W/DC
AP BIOLOGY
HS4220W**

Grade 11-12
1 Unit - 2 Semesters

Prerequisite: Biology and Chemistry I

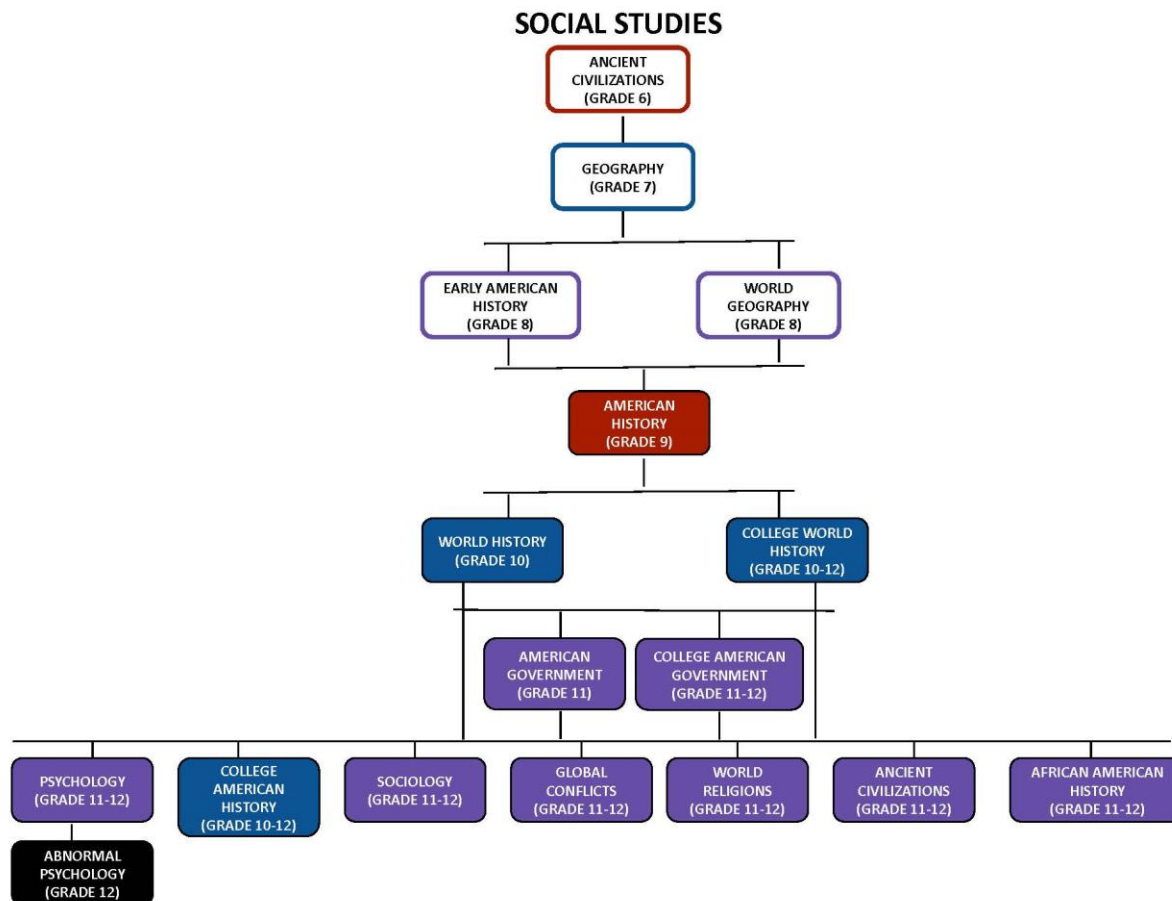
Course Description: This course provides students an opportunity to develop a deep understanding of Biology, with an emphasis on scientific practices such as experimental design and data collection. These practices establish lines of evidence and use them to develop and refine testable hypotheses and build explanations of natural phenomena. Any student considering a career in science or health profession should strongly consider this course. The rigor of this course is designed to prepare students for college science courses and to take the Advanced Placement Exam for Biology to potentially earn college credit. Class content includes: evolution, cellular structures and processes, genetics, and biotechnology, biochemistry and ecology.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

SOCIAL STUDIES



MIDDLE SCHOOL

6th GRADE ANCIENT CIVILIZATIONS

Grade 6
2 Semesters

Course Description: This course is designed to study early civilizations from the beginning of man through the Middle Ages. The course will focus on the history, geography, culture, government, and contributions of each civilization.

7th GRADE GEOGRAPHY

Grade 7
2 Semesters

Course Description: This course is designed to explore patterns and relationships throughout the world while applying the five themes of geography and economic reasoning. The course will focus on the government, economics, political and physical geography, and culture of each area of study.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

8th GRADE EARLY AMERICAN HISTORY

Grade 8
2 Semesters

Course Description: This course is designed to examine the history of the United States from the time of exploration through the Civil War Era. The course will focus on the development and changes in the American nation through the examination of government, economics, geography, and culture.

WORLD GEOGRAPHY

Grade 8
1 Semester

Prerequisite: Students selected by application, grades, test scores, and teacher recommendation.

Course Description: This course is designed to give students a more in depth examination of human existence throughout the world as it has been influenced by physical geographic factors such as land formations, climate and vegetation. The course will focus on human existence and the ways it has been influenced by cultural dimensions. This course is offered in Summer School only.

HIGH SCHOOL

AMERICAN HISTORY HS2040

Grade 9
1 Unit - 2 Semesters

Course Description: This course is designed to cover the growth and development of our modern American nation from the post-Civil War era to contemporary America. Students will learn about industrialization, immigration, and urbanization in America; as well as the rise of America as a global power and its role in global affairs. The course will focus on the changing role of government and the feelings the people experienced during periods of economic boom and bust, expansion and war, and political and social change.

WORLD HISTORY HS2170

Grade 10
1 Unit - 2 Semesters

Course Description: This course is designed to examine the growth and development of the modern world from the end of the Middle Ages into the twenty-first century. Students will learn about the birth of the modern world, new global connections, the age of revolutions, the global conflicts of World War I and World War II, and the modern era. The course will focus on changes in government, culture, and religion.

AMERICAN GOVERNMENT HS2010

Grade 11
1 Unit - 2 Semesters

Course Description: This course is designed to study American politics and government at the local, state, and national levels. The student will also study the U.S. and Missouri constitutions. The passing of this course and the U.S. and Missouri constitutions tests are required by state law in order to meet graduation requirements.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

W/DC
COLLEGE AMERICAN HISTORY 1350/1351
HS2020W

Grade 10-12
1 Unit - 2 Semesters

Prerequisite: Juniors and Seniors must have a 3.0 cumulative GPA or higher to enroll in this class. Juniors and Seniors with a cumulative GPA between 2.5 and 2.99 can enroll with a signed letter of recommendation from your principal or school counselor. Sophomores must have a cumulative GPA of 3.0 or higher, have already passed or are currently enrolled in World History, and obtain a signed letter of recommendation from their principal and school counselor.

Course Description: This course is a survey course designed to cover early North American civilizations to contemporary America. Students will explore the unique combination of Europeans, Africans, and Native Americans as they chart the course for the beginnings of a new nation. The course will examine economic, social, cultural, intellectual, and political developments that challenged America from the beginnings of a new nation to the current day. Included in the course is a study of both Federal and Missouri Constitutions. Students may earn 3 college credits (per semester) from a partner university, if students enroll through the university. (Tuition cost is determined by the university.)

W/DC
COLLEGE WORLD HISTORY 1402
HS2080W

Grade 10-12
1 Unit - 2 Semesters

Prerequisite: Juniors and Seniors must have a 3.0 cumulative GPA or higher to enroll in this class. Juniors and Seniors with a cumulative GPA between 2.5 and 2.99 can enroll with a signed letter of recommendation from your principal or school counselor. Sophomores must have a cumulative GPA of 3.0 or higher, have already passed or are currently enrolled in World History, and obtain a signed letter of recommendation from their principal and school counselor.

Course Description: This course is a survey course designed to study the history of major world civilizations over the past two and a half centuries. The student will examine the diversity of human experiences and the ways in which the past has shaped the world we now inhabit. The course will proceed in a roughly chronological manner through four stages of history: The Age of Revolutions (1750-1850), Imperialism and World Wars (1850-1950), Decolonization and Nation-Building (1950-1991) and the Contemporary World (1991-present). At each turn, students will explore important developments, ideas, and people across the world. Students may earn 3 college credits from a partner university, if students enroll through the university. (Tuition cost is determined by the university.)

W/DC
COLLEGE AMERICAN GOVERNMENT 1510
HS 2010W

Grade 11-12
1 Unit - 2 Semesters

Prerequisite: 3.0 cumulative GPA or higher (2.5-2.99 GPA can enroll with a signed letter of recommendation from their principal or school counselor).

Course Description: This course focuses on the nature, philosophical bases, development, functions, structure, and processes of the government and politics of the United States and of Missouri. Emphasis on and analysis of the nature and development of the provisions and principles of the Constitution of the United States and of Missouri. Students may earn 3 college credits from a partner university, if students enroll through the University of Central Missouri. (Tuition cost is determined by the university.)

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

**PSYCHOLOGY
HS2415**

Grade 11-12
0.5 Unit - 1 Semester

Course Description: This course is designed to study human behavior in response to the environment. The students will study the history of Psychology, the body and mind, theories of learning and cognition, human development, and personality theory. Students should learn to recognize that many of the motives they attribute to others are really reflections of their own needs and values.

**SOCIOLOGY
HS2315**

Grade 11-12
0.5 Unit - 1 Semester

Course Description: This course is designed to provide students with the opportunity for open discussion and inquiry into modern society and its impact on the individual. The students will study the Sociological Perspective, culture, socialization, social organization and inequalities, and social change. The student will apply the sociological imagination throughout each unit and reflect on their own beliefs and practices.

**GLOBAL CONFLICTS
HS2155**

Grade 11-12
0.5 Unit - 1 Semester

Course Description: This course is designed to study the nature, causes and results of conflict among peoples and nations of the world. The course will use contemporary conflicts as an area of study to provide the students with a modern frame of reference

**WORLD RELIGIONS
HS2145**

Grade 11-12
0.5 Unit - 1 Semester

Course Description: This course is designed to study the human development of religion and explore attitudes and values toward the spiritual. The course investigates the historical growth, beliefs, rituals and customs of the world's major religious movements—Hinduism, Buddhism, Sikhism, Judaism, Islam, and Christianity.

**AFRICAN AMERICAN HISTORY:
A STUDY OF BLACK HISTORY IN THE US
HS2050**

Grades 11-12
0.5 Unit - 1 Semester

Course Description: This course is designed for students to explore the various contributions African-Americans have made in forming the United States. The course will focus on the experiences and contributions of African Americans throughout U. S. History. Topics include ancient Africa, the Atlantic slave trade, Black experiences in early America, abolition and emancipation, Reconstruction and civil rights, and contemporary issues.

**ANCIENT CIVILIZATIONS
HS2185**

Grade 11-12
0.5 Unit - 1 Semesters

Course Description: This course is designed to trace the development of world civilizations from the origins of human culture in prehistoric times to the establishment of advanced civilizations in Mesopotamia and Ancient Egypt. This course will also examine the classical civilizations of Greece and Rome.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

Prerequisite: Psychology

Course Description: This course is designed to be a comprehensive look at the field of mental disorders. The student will study the causes of abnormality from current research models, personality disruptions, anxiety distress disorders and psychotic behaviors. The course will focus on the symptoms, process and treatment of disorders.

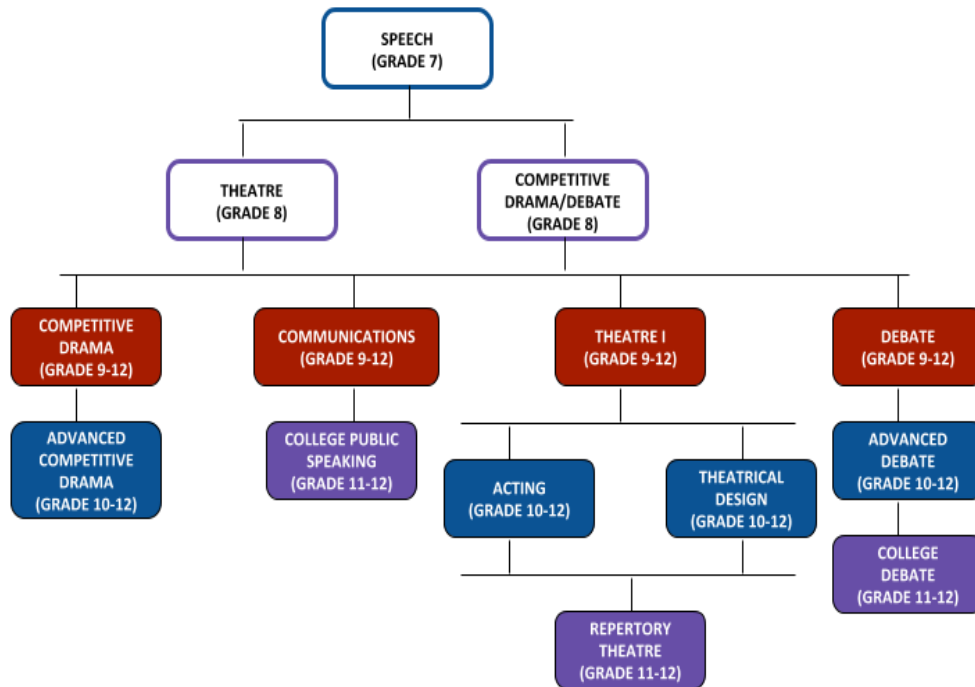
C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

SPEECH/THEATRE (Communication Arts or Fine Art Credit)

SPEECH/THEATRE (Communication Arts or Fine Art Credit)



ACTIVITY/CLUB FEE for Competitive Drama, Debate, Theatre, Band, Orchestra, Choir:
\$26 per year - not to exceed \$52 per family per year.

MIDDLE SCHOOL

SPEECH

Speech is a required exploratory semester class

Grade 7
1 Semester

Course Description: This course is designed to explore theatre, competitive drama, and debate. Students will learn the craft of Presentation, Communication, Listening, Persuasive Argumentation, and Performance Arts. Students will work to develop self-confidence and presentation which is applicable to all other aspects of their academic careers.

THEATRE

Grade 8
1 Semester

Course Description: This course is designed to introduce students to reader's theatre, acting, elements of design, careers in theatre, and play production. Students will learn practical theatre applications through preparation and performance. Students will also have the opportunity to participate in various workshops with the high schools and professional groups.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

COMPETITIVE DRAMA/DEBATE

Grade 7-8
1 Semester

Prerequisite:

- 8th grade students may elect to take this course if they completed the 7th grade Speech requirement with a "C" or above average.
- 7th grade students may elect to take this class to fulfill their Speech requirement if they meet one of the following criteria: Advanced on 6th grade MAP ELA test OR Enrolled in Enriched 7th grade ELA

Course Description: This course is a performance based class designed to teach students the fundamentals of debate styles, speech writing, and oral interpretation of literature. Students will learn to research a topic, organize materials, see two or more sides of a controversial question, and present their ideas in a forceful, logical, and persuasive manner. In addition, the course will stress the use of body and voice in a variety of exercises to improve performance techniques. 8th grade students may elect to retake this course if they completed it during their 7th grade year.

HIGH SCHOOL

COMPETITIVE DRAMA HS1380

Grade 9-12
1 Unit - 2 Semesters

Course Description: This course is designed to introduce students to the art of performing competitively. Opportunities are offered for students to use skills outside of the classroom to network with students from other schools. Students will be required to participate in a minimum of two contests per semester and help host the school's invitational tournament. **Students may take Competitive Drama to fulfill the Speech requirement.**

COMMUNICATIONS HS1335

Grade 9-12
0.5 Unit - 1 Semester

Course Description: This course is designed to include an understanding of verbal and nonverbal communication in relation to self and others. Activities will include: speaking/listening assignments, working in problem-solving groups, developing an understanding of group dynamics and discussion skills, individual speeches, practical skills used in a successful interview and the practice of good delivery techniques (vocal variety, eye contact, facial expression, gestures etc.). **Students may take Communications to fulfill the Speech requirement.**

THEATRE I HS1405

Grade 9-12
0.5 Unit - 1 Semesters

Course Description: This course is designed to develop the student's appreciation and understanding of drama. The student will learn self-expression, discipline, and control through various activities. Acting skills are emphasized by using body movement, voice, improvisation, and characterization. The student is exposed to all aspects of theatre, discovering how each element contributes to a finished performance by performing short scenes. Students desiring to enroll in Theatre II must have earned a passing grade in Theatre I and instructor recommendation. **Students may take Theatre I to fulfill the Speech requirement. Students who passed middle school theatre may skip to Theatre II.**



C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

**DEBATE
HS1360**

Grade 9-12
1 Unit - 2 Semesters

Course Description: This course is designed to teach students the fundamentals of team and Lincoln/Douglas debate. Students will learn to do in-depth research on the debate topics; organize materials; see two or more sides of a controversial question; and present their ideas in a thoughtful, logical, and persuasive manner. Opportunities are offered for students to use their newly found skills outside the classroom. Students will be required to participate in a minimum of two contests per semester and help host the school's invitational tournament. Students desiring to later enroll in Advanced Debate must have earned at least a "C" in Debate and be recommended by the instructor. **Students may take Debate to fulfill the Speech requirement. Debate may not be used to fulfill the Fine Arts requirement.**

**ADVANCED COMPETITIVE DRAMA
HS1390**

Grade 10-12
1 Unit - 2 Semesters

Prerequisite: Passing grades in Competitive Drama and Instructor Recommendation

Course Description: This course is designed on a personalized instruction basis with the student refining and demonstrating the techniques of individual events. A student may enroll in Advanced Competitive Drama for more than one year and may accumulate 3 units of credit. Contest will serve as an outlet for student skills. Students will be required to participate in a minimum of three contests per semester and help host the school's invitational tournament. Selection for the course will be by credit earned in Competitive Drama and by recommendation of the instructor. This is a Fine Arts credit.

**ADVANCED DEBATE
HS1370**

Grade 10-12
1 Unit - 2 Semesters

Prerequisite: Passed Debate with at least a "C" and Instructor Recommendation

Course Description: This course is designed on a personalized instruction basis with the student refining and demonstrating the techniques of debate. A student may enroll in Advanced Debate more than one year and may accumulate 3 units of credit. Contest will serve as an outlet for student skills. Students will be required to participate in a minimum of three contests per semester and help host the school's invitational tournament. Selection for the course will be by credit earned in Debate and by recommendation of instructor. Advanced Debate may be used as 0.5 Elective English Language Arts credit. **Advanced Debate may be used to fulfill either the Speech requirement or an ELA requirement, but may not be used to fulfill the Fine Arts requirement.**

**W/DC
COLLEGE DEBATE
HS1380W**

Grade 11-12
0.5 Unit - 1 Semester

Prerequisite: Advanced Debate and Instructor Recommendation

Course Description: This course provides college credit (3 hours) through the University of Central Missouri. Students will refine and demonstrate the techniques of debate skills. Students may take the course for college credit only one time. Students must enroll in Advanced Debate class. Students will be required to participate in a minimum of four contests per year. Selection for the course will be by recommendation of the instructor. Students may earn college credit from a partner university, if students enroll through the university. (Tuition cost is determined by the university.)

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

W/DC
COLLEGE PUBLIC SPEAKING
HS1345W

Grade 11-12
0.5 Unit - 1 Semester

Prerequisite: Communications, Debate, or Competitive Drama, and instructor recommendation

Course Description: This course provides college credit (3 hours) through the University of Central Missouri. Students in College Public Speaking will refine and demonstrate the techniques of presenting a variety of different speeches. Students may take the course for college credit only one time. Students may earn college credit from a partner university, if students enroll through the university. (Tuition cost is determined by the university.)

THEATRE II
HS1415

Grade 9-12
0.5 Unit - 1 Semester

Prerequisite: Passed Theatre I, Middle School Theatre, or Instructor Recommendation

Course Description: The course is designed to enhance the students' knowledge of basic principles learned in Theatre I. Students will use stagecraft skills to build and design sets for theatrical productions, incorporate advanced stage movements, use advanced characterization in variety of acting scenes and monologues, and learn history of theatre in other cultures.



ACTING
HS1445

Grade 10-12
0.5 Unit - 1 Semester

Prerequisite: Pass Theatre II and/or Instructor Recommendation

Course Description: The course is designed to enrich the advanced theatre student's background in acting and directing. Students will learn to develop materials for an audition. Projects focus on characterization, directing, playwriting, and playwrights' contribution to theatre; while improvisation, creative dramatics, and scene work are used to help students challenge and strengthen their acting skills. Students will perform a variety of drama, comedy, tragedy, classical and original works.



THEATRICAL DESIGN HS1455

Grade 10-12
0.5 Unit - 1 Semester

Prerequisite: Pass Theatre II and/or Instructor Recommendation

Course Description: This course is designed to focus on production design and non-acting elements of theatre. Students will acquire and utilize advanced design elements and practice technical theatre tasks. Practical skills will be used to design and build a set, create props, program the lighting and sound board, sew costumes, publish press releases, sell tickets, draft programs, and execute hair/makeup for Raytown productions.



REPERTORY THEATRE HS1450

Grade 11-12
1 Unit - 2 Semesters



Prerequisite: Pass Acting or Theatrical Design and/or Instructor Recommendation

Course Description: The course is designed to build upon past theatre experiences and prepare students for college and professional work. Students will be introduced to techniques of children's theatre and special creative dramatic activities. Students will be given an opportunity to participate in the presentation of repertory productions before an audience. Technical production knowledge will be developed through special projects. A student may enroll in the course for more than one year and may

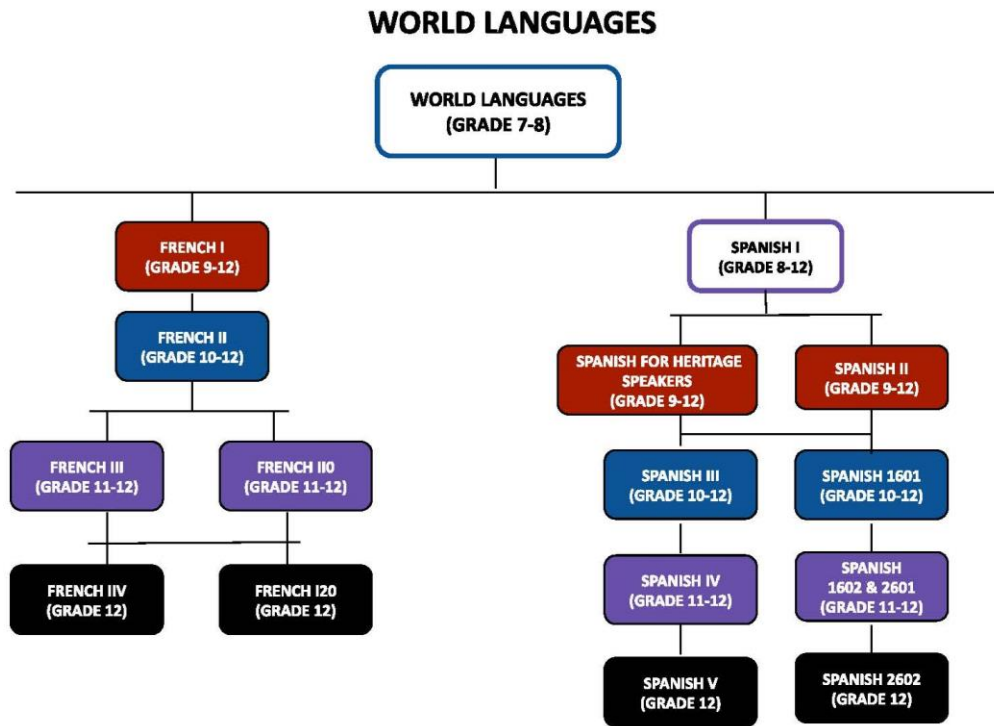
accumulate 2 units of credit, completing advanced work the second year. This course is designed for student led theatrical productions produced for a public audience. Advanced students who are a junior or senior and participate in the co-curricular program may skip the prerequisites with Instructor approval.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

WORLD LANGUAGES



MIDDLE SCHOOL

WORLD LANGUAGES

Grade 7-8
1 Semester

Course Description: This course is designed to explore the French and Spanish languages and cultures through student-centered activities. The students will learn basic vocabulary, such as numbers, colors, alphabet, polite phrases, family members, sports, and other essential vocabulary and phrases. Students practice easy conversational phrases to learn basic communication skills. **This course is a prerequisite for full-year Spanish in the 8th grade year. This recommendation can be waived with teacher recommendation.**

SPANISH I

Grade 8
2 Semesters

Prerequisite: Students selected by application, grades, test scores, and/or teacher approval.

Course Description: This course is designed for the student who has had little or no background in Spanish. The student will communicate in Spanish using basic vocabulary and grammatical structures. Students will do a variety of activities to develop writing, reading comprehension, speaking, and listening skills in Spanish and to establish an understanding of Hispanic culture.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

HIGH SCHOOL

FRENCH I HS9510

Grade 9-12
1 Unit - 2 Semesters

Course Description: This course is designed for the student with little or no background in French. The student will learn listening techniques for comprehension of basic phrases and dialogues and will communicate employing basic vocabulary and grammatical patterns. Students will read cultural selections and authentic language excerpts. Students will write on topics related to unit objectives such as food and cultural patterns. Recordings by native speakers, cultural realia, games, pop songs and video, will enhance comprehension skills and initiate students' further language production. Students will participate in applied activities such as self-portraits, student interviews, map and Internet research.

FRENCH II HS9520

Grade 10-12
1 Unit - 2 Semesters

Prerequisite: French I, students must pass both semesters of French I to advance to French II

Course Description: This course is designed as a continuation of the skills learned in French I. Students will continue to expand the ability to communicate in French. Students will produce conversations employing new vocabulary and sentence patterns. To improve their comprehension skills and to increase vocabulary, students will read authentic materials and selections about cultural traditions and the contemporary life of French-speaking people. Students will write on topics initiated by thematic readings. Applied activities will include discussion of near-future plans and past activities; skits and projects such as family trees; and research on French regions. Students will engage in simulated tasks (such as role plays in open-air markets) drawn from cultural patterns in francophone communities.

FRENCH III HS9530

Grade 11-12
1 Unit - 2 Semesters

W/DC FRENCH 110 HS9550W

Grade 11-12
1 Unit - 2 Semesters

Prerequisite: French II

Course Description: This course is designed to build upon the skills learned in French II. Students will engage in conversation, language structure, culture, customs, and selected readings throughout this course. Reading material about cultural traditions and the contemporary life of French-speaking people improves comprehension and provides subjects for writing activities. The student will continue to expand communication skills in French. Native speaker recordings and authentic texts in French will serve to hone student skills. Applied activities will include a study of French history, student selected research topics using French information found on the Internet, participation in role plays simulating real life situations, and creative projects such as, designing their dream bedroom. After successful completion of this course, students may earn college credit from a partner university, if students enroll through the university. (Tuition cost is determined by the university.)

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

**FRENCH IV
HS9540**

Grade 12
1 Unit - 2 Semesters

**W/DC
FRENCH 120
HS9550W**

Grade 12
1 Unit - 2 Semesters

Prerequisite: French III

Course Description: This course is designed as a continuation of the skills learned in French III. The student will refine listening comprehension, reading, speaking and writing skills learned in the three previous levels of French. Students will apply pronunciation and structural principles in conversations with classmates and in oral presentations. Students will master sophisticated grammatical structures including future, past conditional and subjunctive tenses. Students will read and comprehend selections of authentic material and francophone literature. Students will create original compositions using newly acquired vocabulary and structures. Applied activities will include research on culture from francophone countries, interviewing classmates, presentations to classmates on various topics such as health, foods, and education and writing on topics thematically related to unit themes. After successful completion of this course, students may earn college credit from a partner university, if students enroll through the university. (Tuition cost is determined by the university.)

**SPANISH I
HS9610**

Grade 9-12
1 Unit - 2 Semesters

Course Description: This course is designed for the student who has had little or no background in Spanish. The student will communicate in Spanish using basic vocabulary and grammatical structures. Students will do a variety of activities to develop writing, reading comprehension, speaking, and listening skills in Spanish and to establish an understanding of Hispanic culture.

**SPANISH FOR HERITAGE SPEAKERS
HS9600**

Grade 9-12
1 Unit - 2 Semesters

Prerequisite: Student should be considered a native or heritage speaker of Spanish

Course Description: This course is designed to introduce Spanish classes to students who already speak Spanish. This is meant to replace Spanish I and Spanish II and prepare students to enter Spanish II, Spanish IV, or Spanish V based on age and readiness level. Students will learn common literacy skills in Spanish for reading, writing, speaking and listening as well as an introduction to Spanish grammar and structure in a more tailored manner to fit students who already speak Spanish. For students who desire to take two years of Spanish, they will take at least one more year after this course.

**SPANISH II
HS9620**

Grade 9-12
1 Unit - 2 Semesters

Prerequisite: Student must pass both semesters of Spanish I.

Course Description: This course is designed to build upon the skills learned in Spanish I. Students will be able to communicate in Spanish orally and in written activities by using new vocabulary and sentence patterns as well as the material learned in Spanish I. Students will read and discuss cultural traditions and contemporary life of Spanish-speaking people. They will demonstrate comprehension by participation in class discussion and do applied activities such as write paragraphs and speak in the present and past tense.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

**SPANISH III
HS9630**

Grade 10-12
1 Unit - 2 Semesters

**W/DC
SPANISH 1601
HS9630W**

3 credit hours
Grade 10-12
1 Unit - 2 Semesters

Prerequisite: Spanish II

Course Description: The course is designed to build the students' knowledge of the Spanish language and increase their proficiency to a novice-high/intermediate-low level. Students will build upon their previous levels, increasing vocabulary, grammar, spoken and understood in the target language. Communicative and cultural goals are achieved through listening, speaking, reading and writing in Spanish. Also, the student will develop cultural awareness through discussions and authentic material presented in class. This advanced-level course will be taught primarily in Spanish. Students will review grammatical structures, write compositions, make oral presentations, and read and discuss a variety of texts at an advanced level. Students may earn college credit from a partner university, if students enroll through the university. (Tuition cost is determined by the university.)

**SPANISH IV
HS9640**

Grade 11-12
1 Unit - 2 Semesters

**W/DC
SPANISH 1602 & 2601
HS9640W**

6 credit hours, 3 hours/semester
Grade 11-12
1 Unit - 2 Semesters

Prerequisite: Spanish III

Course Description: This course is designed to build students' in-depth knowledge of the Spanish language and increase their proficiency to an intermediate-low/mid-level. Students will build upon their previous levels, increasing vocabulary, grammar, spoken and understood in the target language. Communicative and cultural goals are achieved through listening, speaking, reading and writing in Spanish. The student will develop cultural awareness through discussions and authentic material presented in class. This advanced-level course will be taught primarily in Spanish. It is important to remember that this course is taught as a college credit course. Work includes longer readings and more extensive writing. Students will review grammatical structures, write compositions, make oral presentations, and read and discuss a variety of texts at an advanced level. After successful completion of this course students may earn college credit from a partner university, if students enroll through the university. (Tuition cost is determined by the university).

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

SPANISH V
HS9670

Grade 12
1 Unit - 2 Semesters

W/DC
SPANISH 2602
HS9670W

3 credit hours
Grade 12
1 Unit - 2 Semesters

Prerequisite: Spanish IV

Course Description: This course is designed for students to continue to build their in-depth knowledge of the Spanish language and increase their proficiency to an intermediate-high/advanced-low level. Students will build upon their previous levels, increasing vocabulary, grammar, spoken and understood in the target language. Communicative and cultural goals are achieved through listening, speaking, reading and writing in Spanish. The student will develop cultural awareness through discussions and authentic material presented in class. Students will review grammatical structures, write compositions, make oral presentations, and read and discuss a variety of texts at an advanced level. After successful completion of this course, students may earn college credit from a partner university, if students enroll through the university. (Tuition cost is determined by the university.)

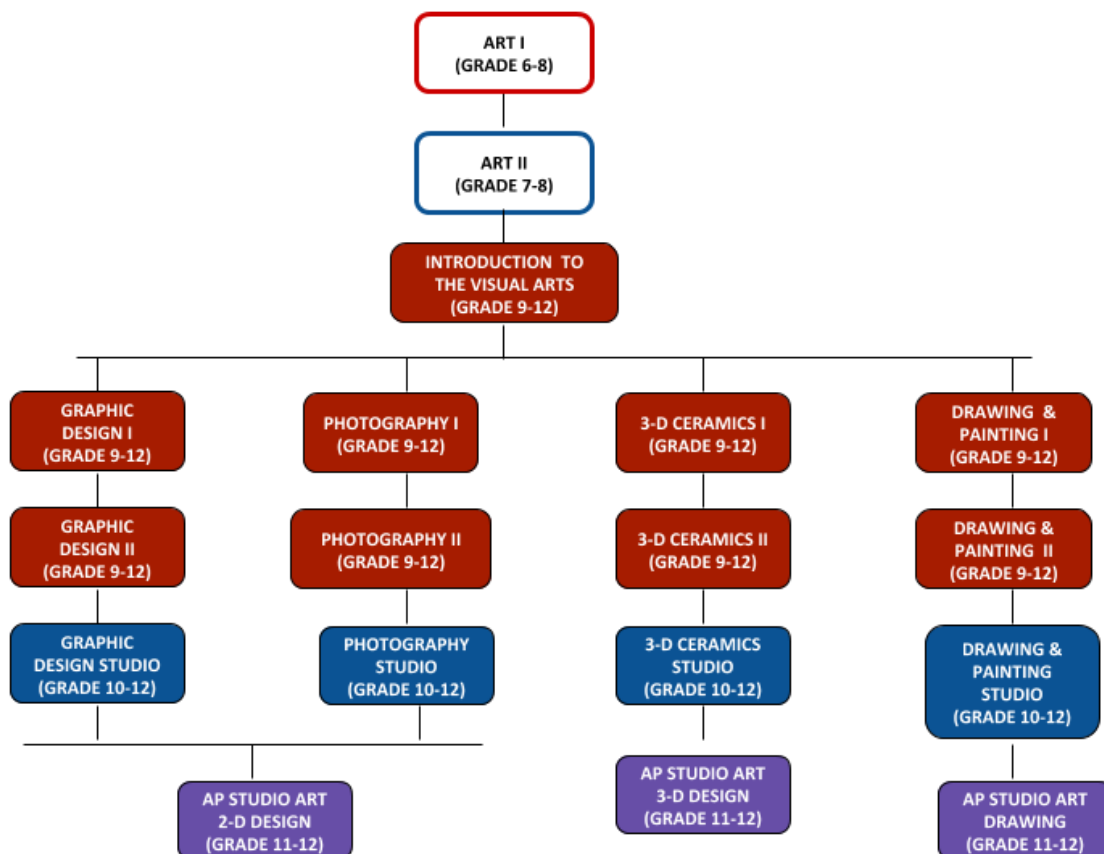
C = Career Course

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W = Weighted Grade Course

VISUAL ARTS (Fine Arts Credit)

VISUAL ARTS (Fine Arts Credit)



MIDDLE SCHOOL

ART I

Grade 6-8
1 Semester

Course Description: This course is designed to explore art production, art criticism, art history, and aesthetics. Student will learn to use the art elements and principles in their work. Students will produce artwork in 2-dimensional forms including drawing, painting, and printmaking. Students will also create 3-dimensional work using varied media. Students will use the art criticism process to describe, analyze, interpret, and judge the subjects, themes, compositions of artwork by others. Students will speak about their own work and the work of others using art vocabulary. Students will understand the value of the visual arts as an ongoing record of the human experience across all time and cultures.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

ART II

Grade 7-8
1 Semester

Prerequisite: Successful completion of Art I

Course Description: This course is designed to deepen students' understanding of art production, art criticism, art history, and aesthetics. Students will learn to use the art elements and principles in their work to communicate ideas then be able to give reasons for their artistic choices. Students will produce artwork in 2-dimensional forms including drawing, painting, and printmaking. Students will also create 3-dimensional work using varied media. Students will use the art criticism process to describe, analyze, interpret, and judge the subjects, themes, compositions, and the meaning of their own work and the work of others using art vocabulary. Students will understand the value of the visual arts as an ongoing record of the human experience across all time and cultures.

HIGH SCHOOL

INTRODUCTION TO THE VISUAL ARTS HS5015

Grade 9-12
0.5 Unit - 1 Semester



Course Description: This course is designed to give students an introduction to the visual arts programs at the high school level. Students will work with a variety of two-dimensional and three-dimensional art media. Assignments will include two-dimensional projects in drawing, painting and design and in various three-dimensional materials. Although the course is primarily project oriented, the students will also get a chance to discover the artwork of famous artists and see how they fit into art history. This class is a prerequisite for all other visual arts courses. Students must supply a sketchbook.

GRAPHIC DESIGN I HS5025

Grade 9-12
0.5 Unit - 1 Semester

Prerequisite: Introduction to Visual Arts

Course Description: This course is designed to give students an introduction in Graphic Design. Students will use the elements of art and the principles of design learned in the Introduction to Visual Arts course and apply these concepts to graphic design assignments. The student will work on a variety of creative design projects, such as, logo design, brochures, restaurant menus, stationary, magazine cover designs, character design and more. These projects will provide the vehicle for learning about lettering and fonts, layout skills, and basic visual design. This creative course includes "hands-on" computer lessons using Adobe Photoshop and Adobe Illustrator software.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

3-D CERAMICS I HS5045

Grade 9-12
0.5 Unit - 1 Semester

Prerequisite: Introduction to Visual Arts

Course Description: This course is designed to be a beginning course in three-dimensional arts. Students will learn the skill of creating ceramic clay pottery, although other three-dimensional projects of mixed media may be included. Basic ceramic topics covered include hand building, wheel throwing methods, glazing and art history.



PHOTOGRAPHY I HS5085

Grade 9-12
0.5 Unit - 1 Semester

Prerequisite: Introduction to Visual Arts

Course Description: This course is designed- to be a beginning course in black and white film photography and digital photography. Students will learn camera and darkroom techniques through classroom instruction and a variety of lab projects. By the completion of the course, students will be able to correctly expose film using a 35mm manual (adjustable) camera, develop their own film and make prints from their negatives. Students will be able to manipulate digital photographs using basic software and editing tools. Students will also study the history of photography and career opportunities in the field of photography. Students will be encouraged to evaluate their own work both in terms of artistic and technical qualities.

DRAWING AND PAINTING I HS5035

Grade 9-12
0.5 Unit - 1 Semester

Prerequisite: Introduction to Visual Arts

Course Description: This course is designed to explore a variety of drawing, painting and/or printmaking media and techniques. Students will learn to use pencil, charcoal, marker, tempera paint, and watercolor paint. Students will also explore career opportunities in drawing and painting. Students will have the opportunity to develop their critique skills by analyzing their work and the work of others. Styles of art and particular artists will be studied to increase the students' understanding of art throughout the ages.

GRAPHIC DESIGN II HS5125

Grade 9-12
0.5 Unit - 1 Semester

Prerequisite: Graphic Design I and pass Graphic Design I with a "C" or higher

Course Description: This course is designed to build upon the skills learned in Graphic Design I. The student will refine skills in advertising art, layout design character design and create a portfolio of their work. The course will be primarily computer based. Advanced lessons in Adobe Photoshop, Adobe Illustrator and other graphic software will be presented. Students completing this course are encouraged to consider the Advertising and Display Art program at the Herndon Career Center.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

3-D CERAMICS II HS5145

Grade 9-12
0.5 Unit - 1 Semester

Prerequisite: 3-D Ceramics I

Course Description: This course is designed to build upon the skills learned in 3-D Ceramics I. Students will further develop skills of forming, glazing and firing ceramics as well as knowledge of ceramics in art history. Forming processes will be explored through hand building techniques, use of the potter's wheel and sculpture. Critique periods will be held throughout the semester.



PHOTOGRAPHY II HS5185

Grade 9-12
0.5 Unit - 1 Semester

Prerequisite: Photography I and pass Photography I with a "C" or higher

Course Description: The course is designed to build upon the students' basic understanding of the 35 mm film and digital camera developed in Photography I. The student will learn what makes a good photographic image. Different camera techniques, such as the use of deep and shallow depth-of-field, unique point of view, panning, and framing will be demonstrated and practiced. Also, new lab techniques, such as dodging and burning, the use of contrast filters and other image manipulation techniques will be introduced through various lab and digital assignments. Students will develop their skills in evaluating their own work and the work of others through regular classroom critiques. Students must supply a SD card.

DRAWING AND PAINTING II HS5135

Grade 9-12
0.5 Unit - 1 Semester

Prerequisite: Drawing and Painting I

Course Description: This course is designed to build upon the foundation established in Drawing and Painting I. Students will further develop their ability to produce quality two-dimensional artwork. New materials such as Acrylic paint on canvas will be explored. Students will be encouraged to make choices and solve problems related to their own artistic creations. Students will participate in critique periods, designed to further enhance their appreciation, understanding, and judgment of artwork.

GRAPHIC DESIGN STUDIO HS5225

Grade 10-12
0.5 Unit - 1 Semester

Prerequisite: Graphic Design II and teacher approved application

Course Description: This course is designed to further develop the students' interests and abilities in graphic design. The emphasis will be on providing extended opportunities for students who are interested in pursuing this field after graduation. Students will learn advanced techniques and processes. A portfolio of the students' work will be assembled. Critique periods will be held with the instructor. This course is repeatable and new projects and techniques will be introduced each time the student takes it.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

3-D CERAMICS STUDIO HS5245

Grade 10-12
0.5 Unit - 1 Semester

Prerequisite: 3-D Ceramics II and teacher approved application

Course Description: This course is designed to further develop the students' interests and abilities in ceramics, With an emphasis on the creation of quality 3-D artworks. Students will work independently, solving artistic and technical problems and developing their skills and interests. Advanced techniques and processes will be emphasized. Students will be exposed to artists and art movements to deepen their appreciation of art. A portfolio of the students' work will be assembled. Critique periods will be held with the instructor. This course is repeatable and new projects and techniques will be introduced each time the student takes it.



PHOTOGRAPHY STUDIO HS5285

Grade 10-12
0.5 Unit - 1 Semester

Prerequisite: Photography II and teacher approved application

Course Description: This course is designed to further develop the students' interests and abilities in photography, with an emphasis on the creation of quality photographic images. Students will work independently, solving artistic and technical problems and developing their skills and interests. Advanced darkroom techniques and processes will not be emphasized, but optional for students who desire this path. Students will select photographers and photographic techniques for research to deepen their appreciation of the craft. A portfolio of the students' work will be assembled. Critique periods will be held with the instructor. This course is repeatable and new projects and techniques will be introduced each time the student takes it. Students must supply a SD card.

DRAWING AND PAINTING STUDIO HS5235

Grade 10-12
0.5 Unit - 1 Semester

Prerequisite: Drawing and Painting II and teacher approved application

Course Description: This course is designed to further develop the students' interests and abilities in drawing and painting, with an emphasis on the creation of quality visual images. Students will work independently, solving artistic and technical problems and developing their skills and interests. Advanced techniques and processes will be emphasized. Students will select artists and art movements for research to deepen their appreciation of the art form. A portfolio of the students' work will be assembled. Critique periods will be held with the instructor. This course is repeatable and new projects and techniques will be introduced each time the student takes it.

W/DC AP STUDIO ART

Grade 11-12
0.5 Unit - 1 Semester

Prerequisite: ½ unit credit in 3-D Ceramics II, Drawing and Painting II, Photography II, or Graphic Design II and teacher approved application

Course Description: These courses are designed for highly motivated students who are seriously interested in the study of art. It is recommended that students have previous training in art. AP Studio Art provides willing and academically prepared students with the opportunity to earn college credit, advanced placement, or both, on the

C = Career Course

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W = Weighted Grade Course

basis of successful AP Exam scores. AP Studio Art is not based on a written exam; instead, students submit portfolios for evaluation in May. The AP Studio Art Program consists of three portfolios: 2-D Design, 3-D Design and Drawing — corresponding to common college foundation courses. Students may concentrate on one or more areas.

The instructional goals of the AP Studio Art program are to encourage creative and systematic investigation of formal and conceptual issues, emphasize making art as an ongoing process involving critical decision making, help students develop technical skills and familiarize them with the functions of the visual elements, and to encourage students to become independent thinkers who will contribute inventively and critically to their culture through art making.

The AP Studio Art program demands significant commitment in terms of time and effort. Students will need to work in and outside the classroom, beyond scheduled periods. Homework, such as maintaining a sketchbook or a journal, will be a necessary component of instruction. Students are strongly encouraged to use museums and galleries, actual and virtual, as extensions of classroom studio time. An AP Portfolio Exam Fee is required to submit the portfolio for scoring in the spring. Students may earn college credit from a partner university, if students enroll through the university. (Tuition cost is determined by the university.)

W/DC
2-D DESIGN
HS5370W

Grade 11-12
1 Unit - 2 Semesters

Course Description: Students are asked to demonstrate understanding of 2-D design through any two-dimensional medium or process, including, but not limited to, graphic design, digital imaging, photography, collage, fabric design, weaving, fashion design, fashion illustration, painting and printmaking. Video clips, DVDs, CDs and three-dimensional works may not be submitted. However, still images from videos or films are accepted. There is no preferred (or unacceptable) style or content.

W/DC
3-D DESIGN
HS5350W

Grade 11-12
1 Unit - 2 Semesters

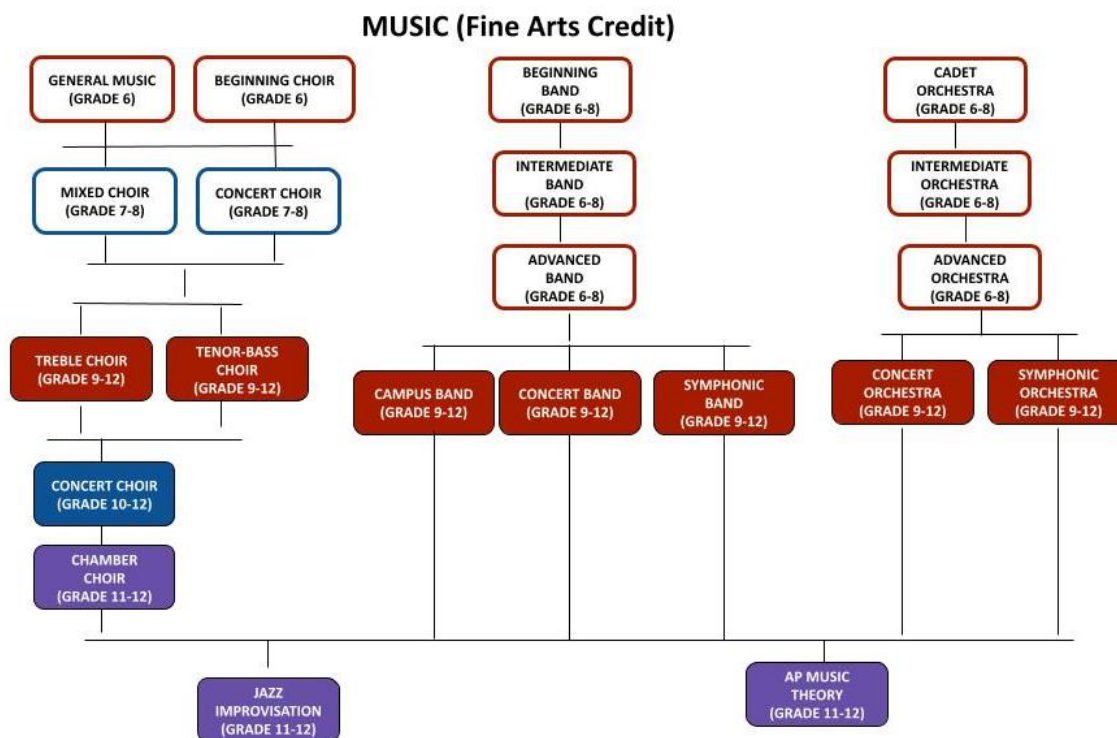
Course Description: Students are asked to demonstrate understanding of 3-D design through any three-dimensional approach, including, but not limited to, figurative or non figurative sculpture, architectural models, metal work, ceramics, glass work, installation, performance, assemblage and 3-D fabric/fiber arts. There is no preferred (or unacceptable) style or content.

W/DC
DRAWING
HS5360W

Grade 11-12
1 Unit - 2 Semesters

Course Description: Students may address drawing issues through a variety of means, which could include painting, printmaking, mixed media, etc. Abstract, observational, and invented works may demonstrate drawing competence. The range of marks used to make drawings, the arrangement of those marks, and the materials used to make the marks are endless. Any work submitted in the Drawing Portfolio that incorporates digital or photographic processes must address drawing issues such as those listed previously. There is no preferred (or unacceptable) style or content.

MUSIC (Fine Arts Credit)



ACTIVITY/CLUB FEE for Competitive Drama, Debate, Theatre, Band, Orchestra, Choir: **\$26.00 per year - not to exceed \$52.00 per family per year.**

MIDDLE SCHOOL

GENERAL MUSIC

Grade 6
1 Semester

Course Description: This course is designed to foster appreciation of music, and build upon what students have learned in elementary school by exploring music history, music theory, basic singing skills, music literacy, and world music. Students will be expected to actively participate in class by listening to, creating, and performing music.

BEGINNING CHOIR

Grade 6
2 Semesters

Course Description: This course is designed to serve as a beginning choir for 6th grade students. Students will focus on music literacy, vocal production, and concert preparation. Techniques will be developed that are specific to the adolescent changing voice. The choir will give public performances throughout the year, as well participation in festivals and clinics. Students will be required to attend events designated by the director.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

MIXED CHOIR

Grade 7-8
1 Semester

Course Description: This course is designed to serve as an intermediate choir for 7th and 8th grade students. Students will focus on music literacy and concert preparation, and techniques will be developed that are specific to the adolescent changing voice. The class will also cover music fundamentals, music history, and popular music. The Mixed Choir will give a public performance at the end of the semester, as well as possible festivals. Students will be required to attend events designed by the director. This class may be repeated.

CONCERT CHOIR

Grade 7-8
2 Semesters

Prerequisite: Approval by director

Course Description: This course is designed to serve as an advanced choir for 7th and 8th grade students. Students will focus on music literacy and concert preparation, and techniques will be developed that are specific to the adolescent changing voice. The choir will give public performances throughout the year, as well as festivals. Students will be required to attend events designed by the director. Students will also have the opportunity to participate in solo/small ensemble contest in the spring. This class may be repeated.

BEGINNING BAND

Grade 6-8
2 Semesters

Course Description: This course is designed to be a beginning instructional course for traditional band instruments. Students are expected to provide their own instrument. Students will pay a usage fee of \$26.00 per year to use a school-owned instrument, if available.

INTERMEDIATE BAND

Grade 6-8
2 Semesters

Course Description: This course is designed to be an intermediate level band class and requires 1 year of prior music training. Students are expected to provide their own instrument. Students will pay a usage fee of \$26.00 per year to use a school-owned instrument, if available.

ADVANCED BAND

Grade 6-8
2 Semesters

Course Description: This course is designed to be an advanced level band class and requires 1-2 years of prior music training and/or music director's approval. Students are expected to provide their own instrument. Students will pay a usage fee of \$26.00 per year to use a school-owned instrument, if available.

CADET ORCHESTRA

Grades 6-8
2 Semesters

Course Description: This course is designed as a continuation of the string instrument classes in elementary school for students who have at least one year of string playing experience. This class is primarily for 6th grade students. Students will continue to learn basic techniques necessary for successful advancement. Students will pay a usage fee of \$26.00 per year to use a school owned instrument. (Cellos and Bases)

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

INTERMEDIATE ORCHESTRA

Grades 6-8
2 Semesters

Course Description: This course is designed as a continuation of middle school orchestra for intermediate students of any grade level, but primarily 7th grade students. It is designed to continue the study of basic string techniques which will emphasize improved bowing, fingering, tone control, vibrato and dynamics. General musicianship is stressed through the study of appropriate orchestra literature. Students will pay a usage fee of \$26.00 per year to use a school owned instrument. (Cellos and Basses)

ADVANCED ORCHESTRA

Grades 6-8
2 Semesters

Course Description: This course is designed to further develop the practice of proper techniques of bowing, fingering, tone quality, vibrato, dynamics, balance and general musicianship through the study of appropriate orchestra literature and prepare students for the high school orchestra program. This course is primarily (but not limited) for 8th graders, Students will pay a usage fee of \$26.00 per year to use a school owned instrument. (Cellos and Basses)

HIGH SCHOOL

TREBLE CHOIR HS5540

Grade 9-12
1 Unit - 2 Semesters

Course Description: This course is designed as a choral ensemble for treble voices. Students choosing to take this class should have a strong desire to sing. Students will focus on the study and performance of soprano/alto choir literature, as well as vocal techniques specific to the treble voice. This is a co-curricular class. Attendance of every member is required at all after school rehearsals and performances. This choir participates in MSHSAA events throughout the year.



TENOR-BASS CHOIR HS5550

Grade 9-12
1 Unit - 2 Semesters

Course Description: This course is designed as a choral ensemble for tenor/bass voices at the high school level. Students choosing to take this class should have a strong desire to sing. Students will focus on the study and performance of tenor/bass choir literature, as well as vocal techniques specific to the tenor/bass voice. This is a co-curricular class. Attendance of every member is required at all after school rehearsals and performances. This choir participates in MSHSAA events throughout the year.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

CONCERT CHOIR HS5660

Grade 10-12
1 Unit - 2 Semesters

Prerequisite: Treble Choir/Tenor-Bass Choir is recommended; students are selected by audition.

Course Description: This course is designed for a select group of singers chosen solely by audition. Students in Concert Choir will sing repertoire representing all periods of music history and a variety of musical styles. This is a co-curricular class. Attendance at all after school rehearsals and performances is required of each member. This choir participates in MSHSAA events throughout the year.



CAMERATA (RHS) CARDINAL CHORALE (RSHS) CHAMBER CHOIR HS5660

Grade 11-12
1 Unit - 2 Semesters

Prerequisite: Past Enrollment in Treble Choir/Tenor-Bass Choir/Concert Choir is recommended, students are selected by audition.



Course Description: This course is designed as a highly select group of singers chosen solely by audition. Students will focus on the study of advanced level repertoire representing a variety of periods of music history and musical styles. Emphasis will be placed on the study and performance of advanced choral literature and music literacy. This is a co-curricular class. Attendance at all after school rehearsals and performances is required of each member. This choir participates in MSHSAA events throughout the year.

CAMPUS BAND HS5710

Grade 9-12
1 Unit - 2 Semesters

Prerequisite: Approval by director

Course Description: This course is designed to be a non-competitive band course for students who have attained a high degree of proficiency on a musical instrument. Students will focus on the study, preparation and performance of music literature selected from all periods of music history. The course will continue to stress the improvement of instrumental technique and performance practices. Attendance at all performances is required. Campus Band students do not participate in the marching band. Students will pay a usage fee of \$26.00 per year to use a school-owned instrument.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

CONCERT BAND HS5700

Grade 9-12
1 Unit - 2 Semesters

Prerequisite: Audition by director

Course Description: This course is designed to be an auditioned ensemble course for students who have attained a high degree of proficiency on a musical instrument. Students will focus on the study, preparation and performance of music literature selected from all periods of music history. The course will continue to stress the improvement of instrumental technique and performance practices. Attendance at all performances and participation in the marching band is required. Students will pay a usage fee of \$26.00 per year to use a school-owned instrument.



SYMPHONIC BAND HS5810

Grade 9-12
1 Unit - 2 Semesters

Prerequisite: Audition by director

Course Description: This course is designed to be a highly-select instrumental ensemble chosen solely by audition for students who have attained a high degree of proficiency on a musical instrument. Students will focus on the study, preparation and performance of music literature selected from all periods of music history. This course will continue to stress the improvement of instrumental technique and performance practices. Attendance at all performances and participation in the marching band is required. Students will pay a usage fee of \$26.00 per year to use a school-owned instrument.

CONCERT ORCHESTRA HS5820

Grade 9-12
1 Unit - 2 Semesters

Prerequisite: Participation in the middle school string program and audition by the orchestra director



Course Description: This course is designed for string players who have attained an average degree of playing proficiency on an orchestra instrument and need further instruction before enrolling in Symphony Orchestra. Students will continue to focus on the fundamental techniques of tone quality, intonation, hand and playing positions as well as other basic techniques. Attendance at all performances of the Concert Orchestra is required. Private lessons on

a string instrument are encouraged. Students will pay a usage fee of \$26.00 per year to use a school-owned instrument.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

SYMPHONIC ORCHESTRA
HS5940

Grade 9-12
1 Unit - 2 Semesters

Prerequisite: Participation in the middle school string program and audition by the orchestra director

Course Description: This course is designed for students who have attained a high degree of proficiency on an orchestra instrument. Students will focus on the preparation of advanced high school orchestra literature and the further development of musical taste and knowledge of our musical and cultural heritage. Attendance at all Symphony Orchestra performances is required. Students will participate in State Large Ensemble Music Festivals each year. Students will be required to prepare a solo or small ensemble for possible District Music Festival performances. Private lessons on the instrument are encouraged. Students will pay a usage fee of \$26.00 per year to use a school-owned instrument.

JAZZ IMPROVISATION
HS5960

Grade 11-12
1 Unit - 2 Semesters

Prerequisite: Audition by director prior to enrollment

Course Description: This course is designed to introduce and develop skills needed to perform Jazz nomenclature. Students must have a high school level of proficiency as an instrumentalist or vocalist. This includes vocal, wind, string, and percussion instruments. Styles studied will include blues, bebop, and swing. There will be an emphasis on listening, form and analysis, and theory and ear training. There is no emphasis on competition or chair placement. Students will develop at their own pace or rate. Students will be expected to play/sing (depending on their instrument of ability) a diagnostic audition for the director prior to registering for the course. Each student is recommended to also enroll in an existing performing ensemble in the music department. Students will pay a usage fee of \$26.00 per year to use a school-owned instrument.

W/DC
AP MUSIC THEORY
HS5980W

Grade 11-12
1 Unit - 2 Semesters

Prerequisite: Passing (C+ or above) participation in high school level performance ensemble and teacher approved application

Course Description: This course is designed to be an advanced study of music theory. Students are asked to demonstrate understanding and master the rudiments and terminology of music including notational skills, scales, keys, intervals, chords, meter and rhythm through practices including writing bass lines for melodies, implying appropriate harmony and harmonization, realization of figured bass, Roman numeral progression, harmonic analysis, motivic treatment analysis, scales including major, minor, pentatonic, and whole tone, triadic harmony, non-harmonic tones, seventh and secondary dominant chords, modulations, phrase structure, and small forms. The course utilizes listening skills (intervals, scales, chords, melodic and harmonic dictation, musical excerpts), sight-singing, written exercises, and creative exercises to develop musical skills. The course includes the study of a variety of music from standard Western tonal repertoire.

AP Music Theory is for highly motivated students who are seriously interested in the study of or career path in music. It is necessary that students have previous musical training. AP Music Theory provides willing and academically prepared students with the opportunity to earn college credit, advanced placement, or both, on the basis of successful AP Exam scores. AP Music Theory is based on a comprehensive exam including aural, verbal, and written skills.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

The instructional goals of the AP Music Theory program are to build a foundation and then increase knowledge and comprehension of advanced music topics including writing, analyzing, sight-reading, and listening. Students will gain musical independence and be given the skills to influence music further in college and future careers through performance or composition.

The AP Music Theory course demands dedication to the study, practice, and application of music concepts. Students will have homework regularly to reinforce what they are learning during class. Students will need access to a computer to utilize free notation software. **Exam Fees: An AP Music Theory Exam Fee is required to take the exam in the spring.**

DISTRICT POLICY REGARDING THE USE OF SCHOOL-OWNED INSTRUMENTS

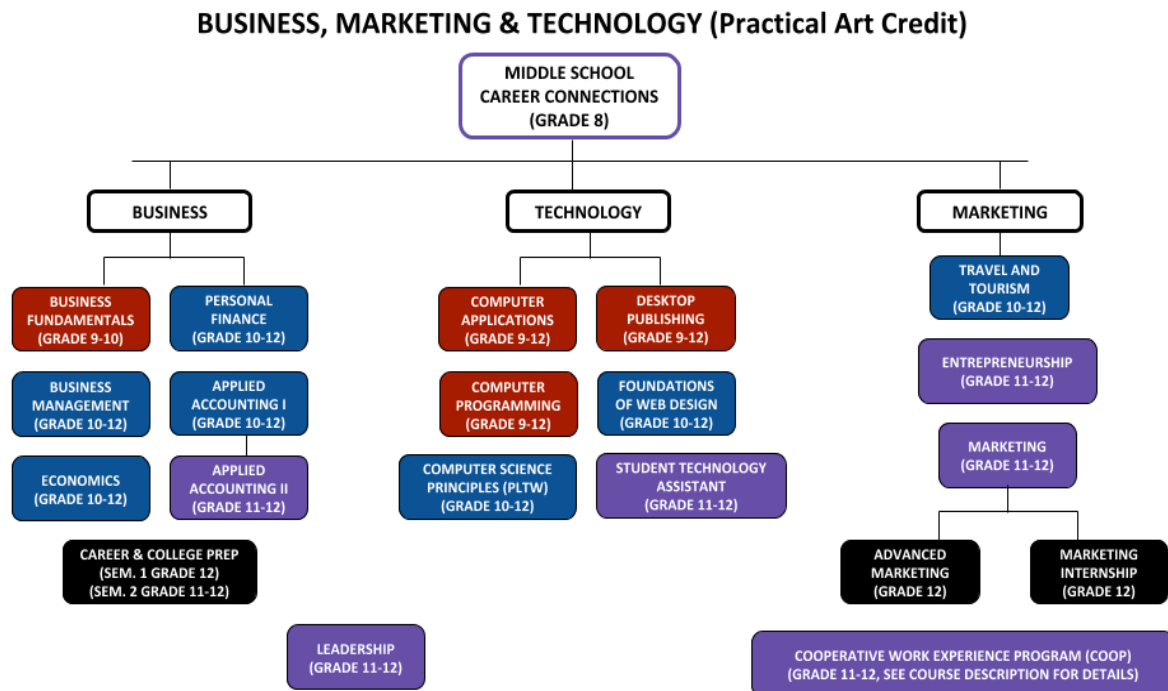
The C-2 School District may loan, to the limits of its inventory and at the teacher's recommendation, an instrument to a C-2 instrumental music student. The student must be enrolled in an instrumental music class described in the Career and Educational Planning Guide and must have no other means of providing an instrument for the purpose of beginning and/or continuing the study of music. An annual fee of \$26.00, payable at the beginning of the first semester of study, will be charged in order to maintain the playing condition of the instrument. If, at the recommendation and discretion of the teacher, a student learns to perform on an instrument that will contribute to the needs of the ensemble, the fee may be waived.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

BUSINESS, MARKETING & TECHNOLOGY (Practical Art Credit)



MIDDLE SCHOOL

CAREER CONNECTIONS

Grade 8
1 Semester

Course Description: This course is designed to introduce 8th grade students to their future career opportunities. Students will learn about how their personality correlates to the 6 different career paths and 16 different career clusters. Students will also have to budget their future lifestyle to see if they can stay on budget with a given income. The student will develop a 4 year plan that maximizes their high school experience.

HIGH SCHOOL

BUSINESS

C
BUSINESS FUNDAMENTALS
HS6035

Grade 9-10
0.5 Unit - 1 Semester

Course Description: This course is designed to provide a foundation for other business courses. Students will learn accounting, management, marketing, money management, and technology in the business world. They will learn leadership skills, types of business ownerships, personnel management, and developing networking. The course focuses on developing professional documents and effective use of technology.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

W/DC/C
APPLIED ACCOUNTING I
HS6180W

Grade 10-12
1 Unit - 2 Semesters

Course Description: This course is designed to prepare students for college and career readiness including a career in the accounting field. All students will benefit from this course regardless of their occupational choice since accounting is an integral part of every business institution or organization. Accounting is designed to build an understanding of accounting principles, concepts, and procedures related to day-to-day business transactions. 11th & 12th grade students may earn college credit from a partner university, if students enroll through the university. (Tuition cost is determined by the university.)

C
BUSINESS MANAGEMENT
HS6065

Grade 10-12
0.5 Unit - 1 Semester

Course Description: This course is designed to help students develop an understanding of skills and resources needed to manage a business. Instruction includes a general overview of American business, forms of business ownership, personnel management, labor-management relations, public and human relations, taxation, and government regulations. The course will introduce students to the use of computers and software tools in making business decisions as part of accounting, sales analysis, and inventory control.

C
ECONOMICS
HS6135

Grades 10-12
0.5 Unit - 1 Semesters

Course Description: This course will cover the basics of economic principles. Students will learn the law of supply and demand, money and prices, inflation and deflation cycles. The course prepares students with work readiness, entrepreneurship and financial literacy. Students will be exposed to Junior Achievement where they develop the skills they need to experience the realities and opportunities of work and entrepreneurship in the 21st century global marketplace.

C
PERSONAL FINANCE
HS6085

Grade 10-12
0.5 Unit - 1 Semester

Course Description: This course teaches students financial literacy and responsibility. Students will look at their personal financial decisions, make future financial goals, recognize their rights/responsibilities as consumers, and apply the knowledge learned in their personal finances. The student will learn how to make wise spending, saving, and credit decisions. **This course is a Missouri state graduation requirement.**

C
APPLIED ACCOUNTING II
HS6190

Grade 11-12
1 Unit - 2 Semesters

Prerequisite: Applied Accounting I

Course Description: This course builds on the concepts learned in Applied Accounting I. Students in this course need to have demonstrated strong skills in Applied Accounting I. This course is a crucial component for students

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

who will pursue entrepreneurial ventures such as owning a small business. Students will acquire a more thorough and in-depth knowledge of accounting procedures and techniques utilized in solving business problems and making financial decisions.

C
COLLEGE & CAREER PREP
HS6125

Grade 12
0.5 Unit - 1 Semester

Course Description: This course is designed to prepare students for college following high school graduation. Students will compare colleges, investigate majors/minors, apply to colleges, research and apply to scholarships and prepare for the ACT. This course will help make the transition between high school and college seamless. It is recommended for seniors who plan on attending college and post-secondary training. **Raytown Success Academy HS6125Y** see page 98.

MARKETING

C
TRAVEL and TOURISM
HS6635

Grade 10-12
0.5 Unit - 1 Semester

Course Description: This course will explore the opportunities for marketing in the world of professional sports, restaurant services, travel and tourism, and hotel management. Students will get to design items such as food courts, themed hotels, and amusement parks. The course provides the opportunity to be an active participant in the DECA Organization.

C
ENTREPRENEURSHIP
HS6265

Grade 11-12
0.5 Unit - 1 Semester

Course Description: This course will teach how to open, operate, and own your own business. Students will get hands-on experience through the school store by learning how to keep inventory, run a cash register, interact with customers, make product decisions, and create a business plan. This course provides the opportunity to be an active participant in the DECA Organization.

C
MARKETING
HS6370

Grade 11-12
1 Unit - 2 Semesters

Course Description: This course follows the journey of a small idea to a major product. Students will spend time in the product development process through production and testing. Once the product is created, this class will explore the promotion, pricing and sales techniques that it takes to sell millions of products and make billions of dollars. The course provides the opportunity to be an active participant in the DECA Organization.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

C
ADVANCED MARKETING
HS6380

Grade 12
1 Unit - 2 Semesters

Prerequisite: Marketing

Course Description: This course utilizes marketing research for active participation in the DECA organization. Students that take this class have already excelled in Fundamentals of Marketing and wish to dig deeper into the marketing process. The course will explore research techniques and develop effective marketing research elements. Students will also participate in a DECA project and enter that project into DECA Competitions.

C
MARKETING INTERNSHIP
HS6460

Does not meet as a class
Grade 12
0.5 -1 Unit - 1-2 Semesters

Prerequisite: Must be enrolled in a Marketing class

Course Description: This course is an opportunity for students to attend school half day and earn credit for working at a job. Students will earn either a half credit (10-19 hours/week) or a whole credit (20 + hours /week) by validating work hours (paycheck stub). Students will have the option of leaving school after 4th, 5th, or 6th hour. Students are required to find their own job for successful completion of the course.

HS6460 (2 semesters for 1 unit)/(2nd semester only for 0.5 unit) Marketing Internship 5th, 6th & 7th hours

HS6470 (2 semesters for 1 unit)/(2nd semester only for 0.5 unit) Marketing Internship 6th and 7th hours

HS6480 (2 semesters for 1 unit)/(2nd semester only for 0.5 unit) Marketing Internship 7th hour

C
COOPERATIVE WORK EXPERIENCE PROGRAM (COOP)
HS9065

Grade 11-12
0.5-1 Unit - 1-2 Semesters

Prerequisite: Must have a case open with Vocational Rehabilitation and have an Individual Educational Program (IEP)

Course Description: This course is designed for students who already have a job and have earned enough credits where they can attend school on a shortened schedule and earn credit for working at a job geared towards post-secondary goals. Students earn either a half credit (10-19 hours/week) or a whole credit (20 + hours/week) by validating your work hours (paycheck stub). Students have the option of leaving school after 4th, 5th, or 6th hour. Students are required to find their own job.

TECHNOLOGY

C
COMPUTER APPLICATIONS
HS6205

Grade 9-12
0.5 Unit - 1 Semester

Course Description: This course is designed to provide content knowledge and skills required in the technology-based workplace. Students will learn advanced skills in Microsoft Word, Excel, and PowerPoint. Students will also improve keyboarding skills and receive internet safety skills. Students will receive skills in this class that are vital as they prepare to enter the workforce or post-secondary education.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

C**DESKTOP PUBLISHING
HS6225****Grade 9-12
0.5 Unit - 1 Semester**

Course Description: This course is designed to utilize advanced graphic arts skills to increase their production efficiency and improve the creativity and quality of business documents and marketing publications. Students will learn how to combine text and graphics to produce professional quality printed and web ready documents. The student will learn how to design and produce flyers, brochures, newsletters, letterheads, advertisements, and correspondence as well as materials for presentations.

C**FOUNDATIONS OF WEB DESIGN
HS3480****Grade 10-12
1 Unit - 2 Semesters**

Course Description: This course will cover Web programming languages, graphics applications, and other Web authoring tools. Students will create and manage web pages containing text, images, hyperlinks, animations, sounds, videos, and interactive elements. Students will learn such topics as Internet theory, Web page standards, Web design elements, user interfaces, special effects, navigation, and emerging Web technologies will be included.

C**COMPUTER PROGRAMMING
HS3450****Grade 9-12
1 Unit - 2 Semesters**

Course Description: This course is designed to teach 21st century computer skills which permeate the entire workplace. Students will learn abilities to become highly employable and a vital component to any business. Students will write their own computer programs, using Alice and Java software. Students will learn the basics of programming through 3-D graphics, coding and application development.

C**STUDENT TECHNOLOGY ASSISTANT
HS9030****Grade 11-12
1 Unit - 2 Semesters**

Course Description: This course is a tech support internship program designed to support the Raytown 1:1 technology initiative. Students will receive experience working in a real tech support environment while taking an online course to learn and advance their knowledge of computer hardware and software. Students have 3 main objectives: support students through troubleshooting and repair, support faculty and staff with technology needs, and pursue independent learning pathways. Time will be split equally between working with the building technology and the online course.

C = Career Course

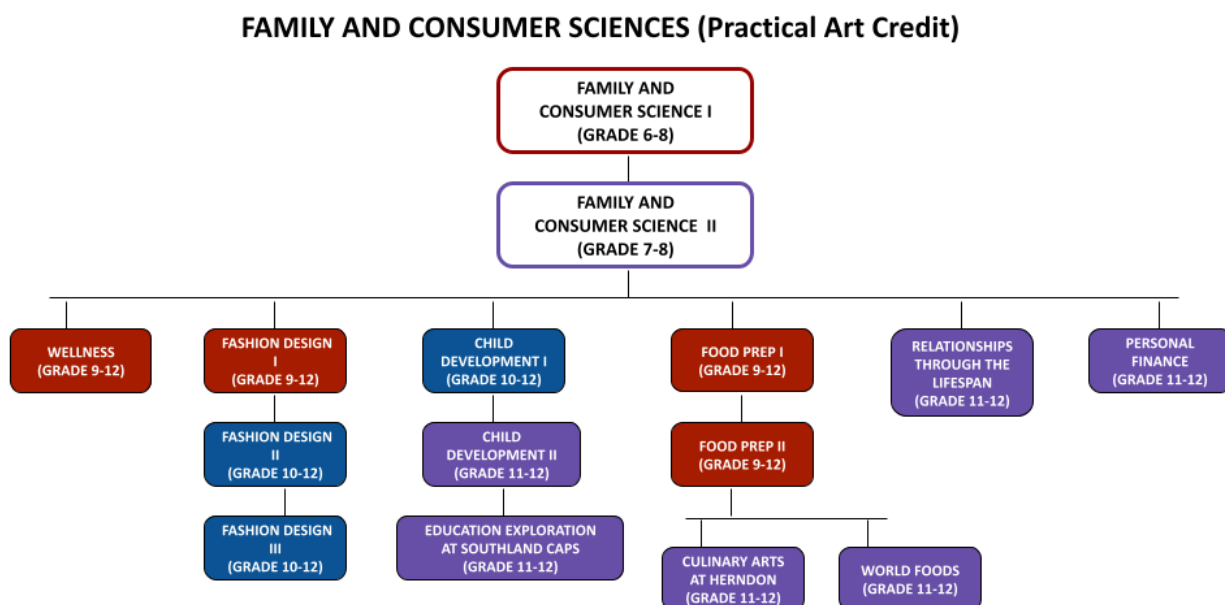
DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

Prerequisite: At least 3.0 GPA, a completed application and an interview

Course Description: This class is designed to develop leadership skills by emphasizing the following areas: leadership, character, integrity, citizenship, service, and scholarship. Students will be given opportunities to learn about various aspects of leadership. Students will have opportunities to make a difference in the school and the community, upholding and improving the atmosphere and facilities at the school, and giving students practical experience in areas that will be necessary beyond high school. This class serves as leadership for Student Council, and will help lead all meetings, activities, and service projects involving Student Council. Students may earn college credit from a partner university, if students enroll through the university. (Tuition cost is determined by the university.)

FAMILY AND CONSUMER SCIENCES (Practical Art Credit)



MIDDLE SCHOOL

FAMILY AND CONSUMER SCIENCE I

Grade 6-8
0.5 Unit - 1 Semester

Course Description: This course is designed to teach students fundamentals of independent living. Students will study nutrition, basic cooking, hand sewing, family structures, childcare, and personal development. The course will utilize hands-on learning methods and students will develop skills in organization and teamwork. This course prepares students to become more independent and promote a safe and healthy lifestyle.

FAMILY AND CONSUMER SCIENCE II

Grade 7-8
0.5 Unit - 1 Semester

Prerequisite: Family and Consumer Sciences I

Course Description: This course is designed to introduce students to future career paths in the family and consumer science pathway. Students will learn nutrition and culinary arts, design concepts, machine sewing and consumer marketing and advertising. Students will develop career soft skills such as communication, organization, teamwork, and responsibility. This course prepares students for future Career and Technical Education courses at the high school level.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

HIGH SCHOOL

C

FOOD PREP I HS6565

Grade 9-12
0.5 Unit - 1 Semester

Course Description: This course will cover nutrition, principles of healthy eating, food preparation, and food service careers. Students will practice proper cooking techniques of fruits, vegetables, quick breads, eggs, dairy and soups. Students will also learn how to use different kitchen tools, kitchen management techniques, and practice proper knife skills. This course is recommended for all high school students, as the fundamentals of cooking and nutrition are necessary for a successful adult life.



C

FOOD PREP II HS6575

Grade 9-12
0.5 Unit - 1 Semester

Prerequisite Food Prep I

Course Description This course involves in depth study of nutrition, food preparation, and food service careers. Students will focus on nutrition needs for specific populations, restaurant management, and advanced cooking techniques including knife skills. Students will prepare food from scratch; units include yeast breads, mother sauces, spices, seasonings, meats and seafood, grains, legumes, cakes and pastries. This class is required for students wishing to attend the Herndon Culinary program. This class is required for students wishing to attend the Herndon Culinary program.

C

WORLD FOODS HS6585

Grade 11-12
0.5 Unit - 1 Semester



Prerequisite: Food Prep I & II

Course Description: This course covers the preparation of cultural foods and the culture and traditions of other countries. In this class you will study food, culture, travel, and culinary techniques from Western Europe, the Mediterranean, Asia, Mexico and South America, as well as the Regional U.S. This class will create the most difficult recipes of any food classes and all items are made from scratch. Taste the world without ever leaving the classroom, take World Foods!

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

C**FASHION DESIGN I
HS6555****Grade 9-12
0.5 Unit - 1 Semester**

Course Description: This course is an introduction to the fashion industry. It will cover introducing industry terminology, fashion and culture, historical fashion and the influence it has on modern fashion, elements and principles of design and how they are used, natural and synthetic fibers, basic fabric care, and basic sewing skills. This course is recommended for any person interested in fashion, art, theater/costuming, medicine (fine motor skills from sewing), retail, fashion merchandising, or styling clothing.

C**FASHION DESIGN II
HS6545****Grade 10-12
0.5 Unit - 1 Semester**

Prerequisite: Fashion Design I and teacher approval

Course Description: This course will cover careers related to the fashion industry, marketing and merchandising in the fashion industry, a more in-depth look at fiber and fabrics and their uses, and higher level sewing skills. Students in this course will create a seam sample notebook and use their higher level sewing skills to create several projects including one garment of their choosing. This course is recommended for any person interested in fashion, art, theater/costuming, medicine (fine motor skills from sewing), retail, fashion merchandising, or styling clothing.

C**FASHION DESIGN III
HS6560****Grade 11-12
1 Unit - 2 Semesters**

Prerequisite: Fashion Design 1 & Fashion Design II and teacher approval

Course Description: In this course you will hone your construction skills and design skills. You will review your basic sewing skills and use them to construct full garments, create patterns, work with the theater department on costuming, and practice alteration skills. This course is recommended for any person interested in fashion, art, theater/costuming, medicine (fine motor skills from sewing), retail, fashion merchandising, or styling clothing.

C**CHILD DEVELOPMENT I
HS6655****Grade 10-12
0.5 Unit - 1 Semester**

Course Description: This course will cover the fundamentals of pregnancy, labor and delivery, and the family unit. Students will learn about family dynamics, parenting, pregnancy, labor & delivery, prenatal development, as well as prenatal care. Then you will learn how to take care of a newborn, infant, and toddler. Students will observe different types of live births. Students in this course will also participate in a mock parenting experience during the course. This course is recommended for future teachers, nurses, social workers, doctors, or anyone who wants children in their future.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

C
CHILD DEVELOPMENT II
HS6665

Grade 11-12
0.5 Unit - 1 Semester

Prerequisite: Child Development I and teacher approval

Course Description: This course will cover an advanced study in child development and guidance; including physical, social, emotional, intellectual and moral development of preschoolers. Students will learn about teacher preparation, observations, childcare management and about child development careers. Students will have actual experience in observing and working with children to improve parenting skills, explore careers related to child development and enhance general employment skills. This class is perfect for anyone wanting to enter the field of education or pediatric care. This course is recommended for students who wish to attend the Southland Caps program of Education Exploration.

C
WELLNESS
HS7705

Grade 9-12
0.5 Unit - 1 Semester

Course Description: This course will help students develop intelligent and desirable attitudes toward health, which will affect their immediate, as well as future personal life. This course deals with broad aspects of health and safety which include: physiology of the body, mental health, drugs, alcohol, tobacco, appearance, personality, diseases, health services, first aid and career opportunities. This course may fulfill the ½ unit of credit required in health. **Health Requirement**

C
RELATIONSHIPS: THROUGH THE LIFESPAN
HS6605

Grade 11-12
0.5 Unit - 1 Semester

Course Description: This course will cover the following units: Personality Development, Relationship Development, Marriage and Families, and Sexuality. Students will learn more about what makes relationships healthy, strong, and long-lasting. This course provides students with information and activities to understand and accept the uniqueness of each individual and the development of individual, family relationships as well as different components of healthy and unhealthy relationships. Emphasis is placed on developing interpersonal communication skills, conflict resolution skills, and public speaking skills. Anatomy and physiology of the human reproductive systems, as well as conception are STD's, and contraceptives are covered.

C
PERSONAL FINANCE
HS6085

Grade 11-12
0.5 Unit - 1 Semester

Course Description: This course teaches students financial literacy and responsibility. Students will look at their personal financial decisions, make future financial goals, recognize their rights/responsibilities as consumers, and apply the knowledge learned in their personal finances. The student will learn how to make wise spending, saving, and credit decisions. **This course is a Missouri state graduation requirement.**

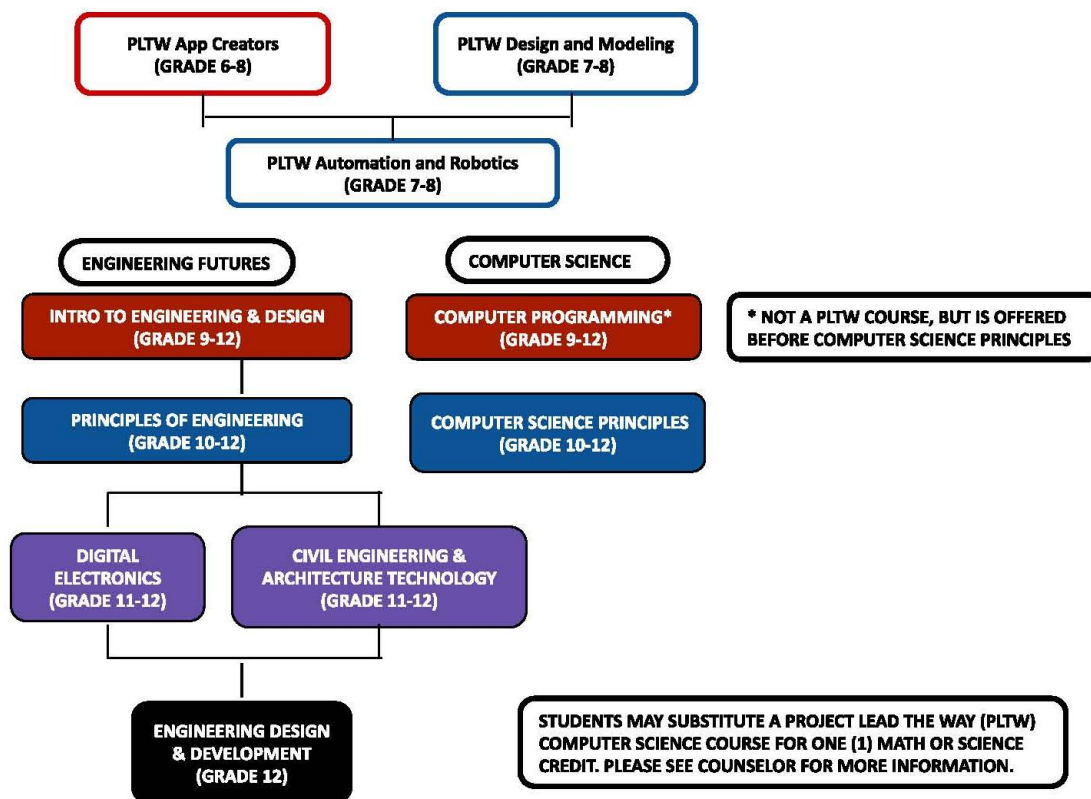
C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

PROJECT LEAD THE WAY (Practical Arts Credit)

PROJECT LEAD THE WAY (Practical Arts Credit)



MIDDLE SCHOOL

PLTW APP CREATORS

Grade 6-8
0.5 Unit - 1 Semester

Course Description: App Creators introduces students to computer science through the creation of mobile apps. Students are challenged to be creative and innovative, as they work together to design and develop mobile solutions to real-world problems. Students will experience the positive impact that computer science can have to society, including biomedical science.

PLTW DESIGN AND MODELING

Grade 7-8
0.5 Unit - 1 Semester

Course Description: Design and Modeling provides students opportunities to apply the design process to creatively solve problems. Students learn and use methods for communicating design ideas through sketches, 3D models, and statistical models. Students will use models to represent a real-world situation and generate data for further analysis and observations. Students work in teams to identify design requirements, research the topic, and create prototypes to satisfy the client.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

Prerequisite: App Creators OR Design and Modeling

Course Description: In the Automation and Robotics unit, students trace the history, development, and influence of automation and robotics as they learn about mechanical systems, energy transfer, machine automation, and computer control systems. Students use the VEX Robotics platform to design, build and program real-world objects such as traffic lights, toll booths, and robotic arms.

HIGH SCHOOL

Engineering Futures

DC/C

INTRODUCTION TO ENGINEERING & DESIGN (IED)
HS6790

Grade 9-12
1 Unit - 2 Semesters

Course Description: This class is designed for students wanting to learn more about Engineering and an introduction to Engineering to new students and is a continuation of the PLTW Gateway courses offered in Middle School. Students will learn how engineers design products and solutions with a creative design process. Students will gain practical skills like technical drawing, precision measurement, modeling and teamwork. Students will create models of their projects with 3D modeling software and a 3D printer. This course should be taken before other PLTW offerings. If not already successfully taken, students need to be simultaneously enrolled in Algebra 1 as freshmen to prepare for Principles of Engineering. **Dual credit can be attained by achieving both a B or better in this course and another PLTW course as well as achieving a predetermined minimum score on the EOC as determined by the state of Missouri.**

DC/C

PRINCIPLES OF ENGINEERING (POE)
HS6780W

Grade 10-12
1 Unit - 2 Semesters

Prerequisite: Introduction to Engineering & Design

Course Description: Principles of Engineering (POE) is a course that exposes students to some of the major concepts that they will encounter in a postsecondary engineering course of study. Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of materials and structures, automation, and kinematics. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology. Students should take Algebra I and pass with a B or better before enrolling in POE. **Dual credit can be attained by achieving both a B or better in this course and another PLTW course as well as achieving a predetermined minimum score on the EOC as determined by the state of Missouri.**

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

DC/C
CIVIL ENGINEERING AND ARCHITECTURE (CEA)
HS6840W

Grade 11-12
1 Unit - 2 Semesters

Prerequisite: Principles of Engineering

Course Description: This class is for the student who is interested in learning more about the act of planning and designing of water systems, sewer systems, buildings, and roads. Students will use a CAD system to design and draw buildings and interior layouts. Students will learn about the different regulations involved in basic commercial and residential systems. Students will work in small teams to do the planning for a residential building and improving a commercial building. This course may be applicable as dual credit through examination. **Dual credit can be attained by achieving both a B or better in this course and another PLTW course as well as achieving a predetermined minimum score on the EOC as determined by the state of Missouri.**

DC/C
DIGITAL ELECTRONICS (DE)
HS6800W

Grade 11-12
1 Unit - 2 Semesters

Prerequisite: Algebra I with a B or better OR Principles of Engineering

Course Description: This is a course in applied logic that encompasses the application of electronic circuits and devices. Computer simulation software is used to design and test digital circuitry prior to the actual construction of circuits and devices. Students will learn the basics of digital electronics by using different logic circuits to create clocks, timers, adders, and counters. **Dual credit can be attained by achieving both a B or better in this course and another PLTW course as well as achieving a predetermined minimum score on the EOC as determined by the state of Missouri.**

W/DC/C
ENGINEERING DESIGN & DEVELOPMENT (EDD)
HS6880W

Grade 12
1 Unit - 2 Semesters

Course Description: This capstone course allows students to design a solution to a technical problem of their choosing. They have the chance to eliminate one of the “Don’t you hate it when...” statements of the world. This is an engineering research course in which students will work in teams to research, design, test, and construct a solution to an open-ended engineering problem. The product development life cycle and a design process are used to guide and help the team to reach a solution to the problem. The team presents and defends their solution to a panel of outside reviewers at the conclusion of the course. The EDD course allows students to apply all the skills and knowledge learned in previous Project Lead The Way courses. The use of 3D design software helps students design solutions to the problem their team has chosen. This course also engages students in time management and teamwork skills, a valuable asset to students in the future. **This course may be applicable as dual credit through examination.**

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

Computer Science

DC/C

COMPUTER SCIENCE PRINCIPLES

HS6870W

Grade 10-12

1 Unit - 2 Semesters

Prerequisite: Algebra I with a B or better

Course Description: This course will aim to develop computational thinking, generate excitement about the field of computing, and introduce computational tools that foster creativity. Projects and problems include application development, visualization of data, cybersecurity, and simulation. Students have the option for either Advanced Placement or Dual Credit. **Dual credit can be attained by achieving both a B or better in POE and achieving a predetermined minimum score on the EOC as determined by the state of Missouri. This course may be applicable as dual credit through examination.** Students may substitute Project Lead the Way (PLTW) Computer Science course for a Math or Science credit – please see counselor for more information.

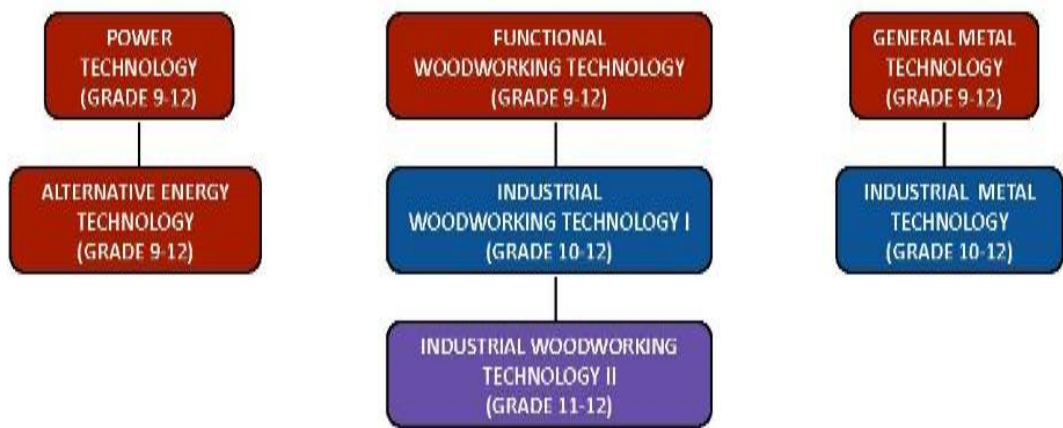
C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

INDUSTRIAL TECHNOLOGY (Practical Arts Credit)

INDUSTRIAL TECHNOLOGY (Practical Arts Credit)



HIGH SCHOOL

C POWER TECHNOLOGY HS6855	Grade 9-12 0.5 Unit - 1 Semester
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Course Description: This course is a hands-on study of combustion engine theory, power mechanics, automotive fundamentals and power transmission. A major emphasis of this course is the understanding and ability to overhaul a small four cycle gasoline engine and the principles of operation of automotive systems. Students will learn different power mechanisms used and how to do regular automotive maintenance. **This is a recommended course for those wishing to pursue enrollment at Herndon Career Center in Automotive Technology or Diesel Mechanics.**

C ALTERNATIVE ENERGY TECHNOLOGY HS6865	Grade 9-12 0.5 Unit - 1 Semester
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Course Description: This course is a hands-on study of various sources of alternative energy including but not limited to solar, wind, bio-fuel, fuel cells, nuclear and geothermal. Students will explore the trade-offs related to each source while working with system models, experiments and prototypes. Students will learn basic electrical theory, electrical power generation and simple home heat exchange systems.

C FUNCTIONAL WOODWORKING TECHNOLOGY HS6810	Grade 9-12 1 Unit - 2 Semesters
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Course Description: This course is a beginning (basic) woodworking class introducing students to the proper use of hand tools and power tools. Students will learn how to measure using the standard and metric system, work with fractions, calculate material costs, and safely use hand and power tools. Students also learn project planning, finishing, and workmanship by building several projects.

C = Career Course
DC = Eligible for college credit through one of many different means
W = Weighted Grade Course

C
INDUSTRIAL WOODWORKING TECHNOLOGY I
HS6820

Grade 10-12
1 Unit - 2 Semesters

Prerequisite: Functional Woodworking Technology

Course Description: This course is designed for the student who has satisfactorily completed Functional Woodworking Technology and wishes a more in depth knowledge of the industrial woodworking industry. Students will learn about the application of basic furniture design and planning, cabinet and furniture construction, wood finishing, plastic laminates and wood bending and lamination.

C
INDUSTRIAL WOODWORKING TECHNOLOGY II
HS6830

Grade 11-12
1 Unit - 2 Semesters

Prerequisite: Industrial Wood Technology I

Course Description: This course is designed as a student-driven course. The student will practice the planning, designing, and manufacturing skills gained in the previous courses. The student will find a client within the school district and work with the client to design and plan what will be built. The student will then build the object to the agreed upon criteria.

C
GENERAL METAL TECHNOLOGY
HS6750

Grade 9-12
1 Unit - 2 Semesters

Course Description: This course covers the basics of metalworking areas. Students will learn about topics such as: sheet metal work, bench metal work and wrought iron processes, forging and heat treatment, electric arc and oxyacetylene welding, and foundry.

C
INDUSTRIAL METALS TECHNOLOGY
HS6760

Grade 10-12
1 Unit - 2 Semesters

Prerequisite: General Metal Technology

Course Description: This course will concentrate on advanced welding, metal machining and fabricating while using elements of good design and planning. The student will develop advanced skills in these areas. The student will develop individual talents, abilities and appreciation for good workmanship through the skills learned in this course.

URBAN AGRICULTURE (Practical Arts Credit)

C

INTRO TO ANIMAL & PLANT SCIENCE
HS4620

Grade 9-10
1 Unit - 2 Semesters

Course Description: This course is designed to introduce students to general agriculture and horticulture. Students will learn about animal breeds, animal reproduction, animal nutrition, agribusiness, plant growth, plant reproduction, crop science, and forestry. Students will have opportunities to learn about leadership and also be introduced to the National FFA Organization and have the opportunity to become a member

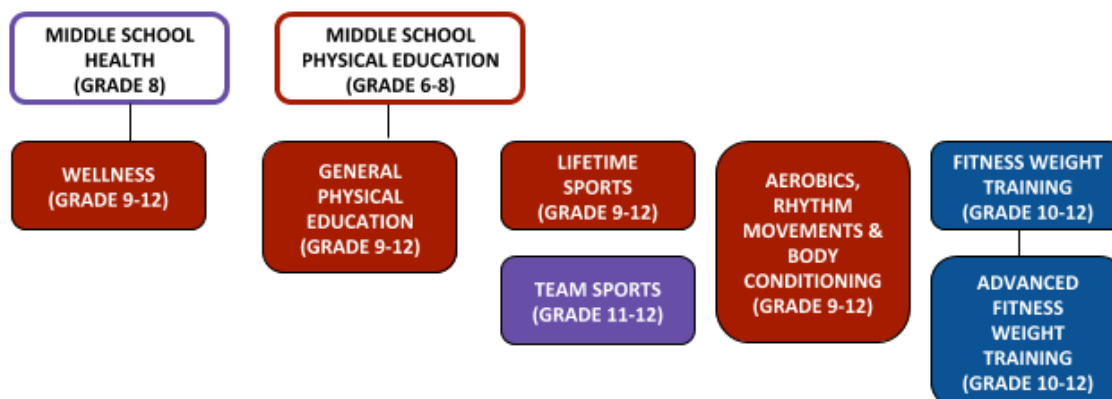
C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

PHYSICAL EDUCATION/HEALTH

PHYSICAL EDUCATION / HEALTH



Locks will be furnished. Students must pay a \$11.00 replacement fee for lost or stolen locks.

Consolidated District No. 2 provides no accident insurance to cover equipment such as ball gloves that are brought to school by students. Equipment and other items brought from home are not the responsibility of the school if lost or stolen.

MIDDLE SCHOOL

BOYS/GIRLS PHYSICAL EDUCATION

Grade 6-8
1 Semester

Course Description: This course will provide students the opportunity to participate in team sports lifetime activities (such as pickleball and badminton), physical fitness testing, aerobics and low organized games such as (kickball, mat ball, cage ball, cup stacking, jump roping and dance). Students will be taught rules, strategies for game play, skills, care of equipment and safety protocols. Students will be engaged in applying knowledge of the safety requirements and rules for activities while actively participating and practicing skills. Appropriate Physical Education uniforms are available for purchase through building PTSA organizations.

HEALTH

Grade 8
1 Semester

Course Description: This course will help students develop intelligent and desirable attitudes toward health, which will affect their immediate, as well as future personal life. This course deals with broad aspects of health and safety which include: physiology of the body, mental health, drugs, alcohol, tobacco, diseases, first aid, abstinence, STDs and nutrition. Emphasis will be placed on making healthy choices for each of these topics.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

HIGH SCHOOL

GENERAL PHYSICAL EDUCATION HS7015

Grade 9-12
0.5 Unit - 1 Semester

Course Description: This course will provide students the opportunity to participate in the following activities: touch football, basketball, volleyball, speedball, table tennis, racquetball, track and field, softball, fleet ball, soccer, team handball, pickleball, physical fitness testing and low organized games. Students will be constantly engaged in applying knowledge of activities while actively participating safely.

LIFETIME SPORTS HS7335

Grade 9-12
0.5 Unit - 1 Semester

Course Description: The purpose of this course is for students to recognize the importance of physical health and lifelong activities through a healthy lifestyle. This course may include activities such as: power walking, badminton, pickle ball, cornhole, Spikeball and Frisbee golf. These activities will give students opportunities to improve their skill and health related fitness components including cardiorespiratory endurance, muscular strength and endurance, flexibility and body composition.

TEAM SPORTS HS7315

Grade 11-12
0.5 Unit - 1 Semesters

Course Description: This course will provide students the opportunity to participate in the following team sports: flag football, basketball, volleyball, speedball, team handball, and soccer. Students will be taught rules, strategy for playing games, skills and care of equipment. Students will be constantly engaged in team competition as they apply what they have learned through participation.

FITNESS WEIGHT TRAINING HS7415

Grade 10-12
0.5 Unit - 1 Semester

Course Description: This course will provide students the opportunity to participate in activities that will help develop their optimum physical condition. Students will be taught different theories of weight training and conditioning as they apply what they learn when completing their own personal fitness plan. Activities used for implementing this course will be running, jogging, weight training and rope jumping.

ADVANCED FITNESS WEIGHT TRAINING HS7425

Grade 10-12
0.5 Unit - 1 Semester

Prerequisite: Successful completion of Fitness Weight Training HS7415

Course Description: This course will provide students the opportunity to follow-up the basic fitness weight-training course with a program of continued weight training and physical fitness. Application of weight training skills will be performed as students complete a personal fitness plan. Other activities offered in the course will be running, flexibility exercises, and rope jumping.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

AEROBICS, RHYTHMS MOVEMENTS, AND BODY CONDITIONING
HS7445

Grade 9-12
0.5 Unit - 1 Semester

Course Description: This course will give students an opportunity to maintain ideal weight and improve cardiovascular fitness through aerobic and rhythmic movements. Students will participate in a daily aerobic jazzercise program, including rhythmical activities such as slimnastic exercises, rope jumping, creative dances, line dances and ethnic dances. Students will demonstrate an understanding of concepts learned by performing and/or composing their own original rhythmic workouts and dances.

WELLNESS (Health Requirement)
HS7705

Grade 9-12
0.5 Unit - 1 Semester

Course Description: This course will help students develop intelligent and desirable attitudes toward health, which will affect their immediate, as well as future personal life. This course deals with broad aspects of health and safety which include: physiology of the body, mental health, drugs, alcohol, tobacco, appearance, personality, diseases, health services, first aid and career opportunities. **This course fulfills the 0.5 unit of credit required in health.**

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

RAYTOWN SUCCESS ACADEMY (Fine/Practical Arts Credit)

PERSONAL DEVELOPMENT HS7910

Grade 9
0.5 Unit - 2 Semesters

Course Description: This course is only offered through the Raytown Success Academy.

COLLEGE & CAREER PREP HS6120

Grade 12
1 Unit - 2 Semesters

Prerequisite: Required GPA 2.0

Course Description: Ready for college? If not, this course is for YOU! Students will compare colleges, investigate majors/minors, apply to colleges, research and apply to scholarships and prepare for the ACT. This course will help make the transition between high school and college seamless. It is recommended for juniors and seniors who plan on attending college and post-secondary training.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

CAREER EDUCATION OFFERINGS

SOUTHLAND CENTERS FOR ADVANCED PROFESSIONAL STUDIES (CAPS)



Southland CAPS (Centers for Advanced Professional Studies) will provide students the opportunity to dive into the professional world by working on real-life projects, by having industry mentors, and by being immersed in a professional culture. Students who take CAPS will be enrolled in an exploratory program that allows them to test-drive their future career goals in high skilled, high demand industries while earning high school credit.

Southland CAPS courses are offered in daily, year-long, AM/PM session blocks at various sites throughout the Kansas City metro area. Each CAPS course may have specific requirements based on the industry partners. Students will be notified of the requirements at the beginning of the school year. For more information, go to <http://www.raytownschools.org> and select Herndon Career Center/Southland CAPS

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

W/DC
ANIMAL HEALTH SCIENCE
Location: Kansas City Zoo

Grade 11-12
3 Units - 2 Semesters
3 Hours Daily, AM/PM Sections



Recommendations: Students need to be on track for graduation and have a desire to be in a setting that encourages teamwork in a project-based real world environment. A grade of C or better is recommended in Biology.

Course Description: This course is designed for students who have an interest in pursuing a career within the Animal Health field. This career exploration course will allow students an opportunity to discover a variety of career options in the animal health industry. Students will have the opportunity to learn from professionals in the field of large animals, marine animals, small animals, exotics, wildlife, and animal research. This course is not teacher and curriculum driven. It is a hands-on, project based exploratory opportunity.

Students should be prepared to work in a team environment with professionals on real-world company based projects. Classroom location for Animal Health Sciences is at the Kansas City Zoo. Students will need to provide their own transportation.

College Credit: This program is eligible for 1-4 credits of dual credit work through Northwest Missouri State University.

2nd Year Prerequisite: Students must meet eligibility requirements including 95% attendance at HCC (no unexcused) and a cumulative Southland CAPS grade of 80% or higher and a positive internship evaluations. Students must also desire to be out in industry 4 days a week on an internship setting. Students engaging in second year programming should be prepared to complete an advanced and elevated passion project.



W/DC
AVIATION MAINTENANCE
Location: AVIATION MAINTENANCE INSTITUTE

Grade 12
3 Units - 2 Semesters
3 Hours Daily, AM/PM Sections

Prerequisite: 2.2 GPA

Recommendations: Students need to be on track for graduation and have a desire to be in an environment that encourages teamwork in a project-based real world environment.

Course Description: The Aviation Institute of Maintenance is designed to help students complete the FAA General Aviation courses. The students will receive 19 articulated credit hours which include: Aviation General Science I, Aviation General Science II, Aviation General Science III, and Aviation General Science IV. Students will gain knowledge in aircraft types, a study into the charts, diagrams and text, access doors, zoning, physical locations of major structural aspects of the aircraft, FAA literature, aircraft service procedures, and an introduction to electrical theory and operation. Students must provide their own transportation.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

W/DC
BUSINESS INNOVATION & CREATION
Location: HCC

Grade 11-12
3 Units - 2 Semesters
3 Hours Daily, AM/PM Sections

Recommendations: Students need to be on track for graduation and have a desire to be in an environment that encourages teamwork in a project-based real world environment.

Course Description: This course is designed for students who have an interest in the business innovation and creation field. This career education course will allow students an opportunity to creatively problem solve for new, existing, and expanding markets. Students will have the opportunity to learn from professionals in the field of entrepreneurship, patent development, marketing, and economic development. This course is not teacher and curriculum driven. It is a hands-on, project-based exploratory opportunity for students. Students should be prepared to work with professionals on real-world company based projects. Student transportation is recommended for off-site experiences and for students seeking internships second semester.



College Credit: This program is eligible for 1-4 credits of dual credit work through Northwest Missouri State University.

2nd Year Prerequisite: Students must meet eligibility requirements including 95% attendance at HCC (no unexcused), cumulative HCC grade of 80% or higher, and positive internship evaluations. Students must also desire to be out in industry 4 days a week on an internship setting.

C/W/DC
EDUCATION EXPLORATION
Location: TBD

Grade 11-12
3 Units - 2 Semesters
3 Hours Daily, AM/PM Sections

Prerequisite: 1st year students: None. Returning students: A grade of 80% (B-) or higher in Education Exploration.



Recommendations: Students need to be on track for graduation and have a desire to be in an environment that encourages teamwork in a project-based real world environment. Child Development encouraged.

Course Description: This course is designed for students who have an interest in learning about future careers in education. Students will have the opportunity to explore the various levels of education including Early Childhood, Elementary, Middle School, and High School. Students will observe all levels of PK – 12 grade instruction, collaborate with educators, and explore

post-secondary opportunities for teacher education and educator employment. Location of the program is to be determined. Transportation is required.

College Credit: This program is eligible for up to 6 credits of dual credit through Northwest Missouri State University.

2nd Year Prerequisite: Students must meet eligibility requirements including 95% attendance at HCC (no unexcused), cumulative HCC grade of 80% or higher and positive internship evaluation. Students must also desire to be out in industry 4 days a week on an internship setting.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

W/DC

TURF MANAGEMENT & HORTICULTURE

Location: Kansas City Zoo

Grade 11-12

3 Units - 2 Semesters

3 Hours Daily, AM/PM Sections

Recommendations: Students need to be on track for graduation and have a desire to be in an environment that is outdoors and encourages teamwork in a project-based real world environment. A strong foundation in the core science classes is strongly encouraged.

Course Description: This course is designed for students who have an interest in learning about careers in the plant science field. Students will have the opportunity to learn from professionals and explore how soil fertility, turf grass management, irrigation, landscape plants, landscape construction, pruning, plant disease, insect control, and horticultural mechanics all play a role in horticulture science. Students will also explore careers related to turf management in residential and commercial settings such as the golf and sporting industries, greenhouse management, public horticulture, and more. This course is not teacher and curriculum driven. It is a hands-on, project based exploratory opportunity for students. Students should be prepared to work with professionals on real-world company based projects. Class is located at the Kansas City Zoo. Personal transportation is required.

College Credit: This program is eligible for 1-4 credits of dual credit work through Northwest Missouri State University.

2nd Year Prerequisite: Students must meet eligibility requirements including 95% attendance at HCC (no unexcused), cumulative HCC grade of 80% or higher, and positive internships evaluations. Students must also desire to be out in industry 4 days a week on an internship.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

HERNDON CAREER CENTER



HERNDON CAREER CENTER COURSES ARE OFFERED IN DAILY, YEAR LONG, AM/PM SESSION BLOCKS AT THE HERNDON CAREER CENTER, 11501 E STATE ROUTE 350, RAYTOWN, MO 64138

For more information, see our web site <http://www.raytownschools.org/schools/hs/rqs/hcc/>

FEES: A few programs at Herndon Career Center have fees. Course fees are listed in the course descriptions and will be due at the beginning of the school year.

* **Center of Excellence** is the site of a specialty career-related program. Acceptance into a Center of Excellence program requires a student to have a minimum 2.0 GPA and a 90% or better attendance rate. Students interested should contact their counselor for an application. Programs marked with an asterisk (*) are approved Center of Excellence programs.

--**Industrial Internships** are available to qualified seniors during the second semester of a one-year program or during the fourth semester of a two-year program. Interested students should contact their HCC instructor or counselor for information about internship opportunities and eligibility.

C/W

ADVERTISING AND GRAPHIC DESIGN*

Location: Herndon Bldg. C

Grade 11-12

3 Units - 2 Semesters

3 Hours Daily, AM/PM Sections

Prerequisite: Minimum 2.0 GPA; 90 % attendance record; successful completion of English II and Algebra I with a C or better

Recommended: Introduction to the Visual Arts, Graphic Design I

Course Description:

First year curriculum consists of an in-depth study and application of Adobe Creative Suite, specifically Adobe In-Design, Illustrator and Photoshop. This course will prepare students to continue their training and education in the design and print industry. The emphasis is on creative problem solving and workflow, artistic critiques, print production, branding, and the use of technology in design to develop skills necessary for continuing education. Students will engage in client-connected design and print production utilizing commercial printing equipment. As such, appropriate footwear and safety standards must be adhered to in the classroom and shop environments.

--**Industrial Internship**

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

DC/C/W

ADVERTISING AND GRAPHIC DESIGN II*

Location: Herndon Bldg. C

Grade 11-12

3 Units - 2 Semesters

3 Hours Daily, AM/PM Sections

Prerequisite: 93% attendance in the 1st year

Course Description: Second year students will build on their foundation by expanding their two-dimensional design skills and advancing their visual communication skills by exploring a variety of design processes and techniques, as well as compositional and aesthetic concepts. Students will follow Adobe Certification Criteria and work towards Adobe Certification. Students in the second year of this program will serve in a management role as they work directly with client relationships and engage in professional opportunities. Second year students will also serve as project managers and lead a team of students in creative client projects.

College Credit: An articulation agreement exists with the Metropolitan Community College for up to 6 hours of college credit.

--Industrial Internship

C/W

AUTO COLLISION AND REPAIR TECHNOLOGY I*

Location: Herndon Bldg. B

Grade 11-12

3 Units - 2 Semesters

3 Hours Daily, AM/PM Sections



Prerequisite: Min 2.0 GPA; 90% attendance record; successful completion of English II and Algebra I with a C or better.

Recommended: Industrial technology, metalwork, art, and computer skills

Course Description: This course is the first year of a two-year program designed to prepare students for entry-level jobs repairing and refinishing collision damaged vehicles. Employment opportunities exist in automotive dealerships, independent repair shops, specialty shops or fleet operations. Students will learn to identify and locate cosmetic and structural panels used in construction of vehicles using program trainer vehicles. Students will be able to identify and use collision repair tools current with industry standards, and demonstrate the safe use of auto body hand and power towels in shop activities. Students will learn basic mig-welding techniques as used in panel replacement and will learn to demonstrate the ability to set up and operate welding equipment used in the repair of major collision damage. Students will learn industry standard metal straightening techniques used to return damaged panels to factory specifications. Stills will be eligible to earn their OSHA-10 safety card and their I-CAR Pro Level I Body Non-structural Certification during the first year of this program. Appropriate dress and safety standards are required at all times within the shop environment.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

DC/C/W
AUTO COLLISION AND REPAIR TECHNOLOGY II*
Location: Herndon Bldg. B

Grade 12
3 Units - 2 Semesters
3 Hours Daily, AM/PM Sections

Prerequisite: Successful completion of Auto Collision and Repair Technology I with a minimum of a C grade and 90% attendance.

Course Description: This course is the second year of a two-year program designed to further develop the skills needed for entry-level or advanced positions in the automotive collision industry. Employment opportunities demand trained technicians who can use the changing technology in the auto collision field. Students will expand their knowledge gained in year one by working on client projects. Students will additionally learn how to perform appropriate mechanical services necessary in the automotive collision field. Second year students will learn additional content related to color theory and color matching techniques used in the automotive collision industry. Students will learn appropriate safety and setup of HVLP paint equipment in a shop environment and practice industry techniques related to the refinish process. Students will learn about basecoat and clearcoat application including the mixing and application of multi-stage finishes. Students will learn to identify refinishing defects and strategies to address defects in the refinish process. Students will be eligible to earn the I-CAR Pro Level 1 Refinish Technician certification.

College Credit: Agreements with the Metropolitan Community Colleges and Kansas City Kansas Community College allowing students to earn up to 26 articulated credits upon completion of their I-CAR certifications through Automotive Collision I & II.

--Industrial Internship

C/W
AUTOMOTIVE TECHNOLOGY I*
Location: Herndon Bldg A

Grade 11-12
3 Units - 2 Semesters
3 Hours Daily, AM/PM Sections

Prerequisite: Minimum 2.0 GPA; 90% attendance record; reading, writing, and math at the 10th grade level

Recommended: Basic technical writing course and power technology or equivalent course

Course Description: This course is the first year of a two-year course intended to prepare students for entry-level jobs as technicians in maintenance and repair of passenger cars and light trucks. Students will have both classroom instruction and laboratory experiences with approximately 60% of the time devoted to classroom instruction. Proficiency in use of automotive service tools and instruction in the more advanced scientific and mechanical principles on the automobile will be an important part of the training experience. Instruction is designed to give students hands-on experience to prepare students to enter directly into the workforce. Instruction spans over two years and covers automatic transmission/transaxle, brakes, electrical/electronic systems, engine performance and light repair, heating & air conditions, manual drivetrain and axles, suspension and steering, maintenance and light repair, and automobile service technology. Students will be eligible to earn their Automotive Service Excellence Entry-Level Certifications.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

C/W

AUTOMOTIVE TECHNOLOGY II*

Location: Herndon Bldg. A

Grade 12

3 Units - 2 Semesters

3 Hours Daily, AM/PM Sections

Prerequisite: Successful completion of Automotive Technology I with a grade of C or better and 90% attendance.

Course Description: This is the second year of a two-year course intended to prepare students for entry-level employment as technicians in the maintenance and repair of passenger cars and light trucks with special emphasis in the use of test equipment for the purpose of diagnosing engine malfunction, steering suspension and alignment adjustment, as well as air-conditioning repair. Instruction covers automatic transmission/transaxle, brakes, electrical/electronic systems, engine performance, engine repair, heating & air conditioning, manual drivetrain and axles, suspension and steering, maintenance and light repair, and automobile service technology. Students will be eligible to earn their Automotive Service Excellence Entry-Level Certifications. Students completing two years of Automotive Technology will have received all curriculum needed to pass the Automotive Service Excellence Entry Level Certification in all content areas listed above. Students may be eligible to earn their Snap-On Multimeter Certification, ASE 609 Refrigerant Certifications, and the S/P2 Automotive Service Pollution Prevention Certification.

--Industrial Internship

C/W

HVAC/INDUSTRIAL MAINTENANCE I

Location: Herndon Bldg. A

Grade 11-12

3 Units - 2 Semesters

3 Hours Daily, AM/PM Sections



Prerequisite: Min 2.0 GPA; 90% attendance record; successful completion of English II and Algebra I with a C or better

Recommended: Industrial Technology class

Course Description: The HVAC/Industrial Maintenance Program provides students with the knowledge and skills necessary to assemble, install, troubleshoot, repair and modify machinery and systems that are mechanically or electronically controlled in residential, commercial, and manufacturing and facilities environments. This program will include basic training in hearing, venting, air conditioning, refrigeration

air distribution, plumbing, pipe fitting, and electrical systems. Classroom instruction accompanied with a hands-on approach characterizes this program. Instruction will involve applying principles and fundamentals using actual industry equipment. All aspects of the application of these principles will be demonstrated in various real world applications. Students completing the first year of this program will be eligible to earn their OSHA-10 card and the North American Technical Excellence Level 1 Certification. Shop safety is paramount in this program and requires industry appropriate clothing such as long sleeved cotton work shirt, leather work boots, industrial work pants (jeans with no holes/coveralls)

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

C/W
HVAC/INDUSTRIAL MAINTENANCE II
Location: Herndon Bldg. A

Grade 12
3 Units - 2 Semesters
3 Hours Daily, AM/PM Sections

Prerequisite: Completion of HVAC/Industrial Maintenance I with a B- or better and 93% attendance. Completion of IRC and OSHA-10 certification.

Course Description: The HVAC/Industrial Maintenance Program provides students with the knowledge and skills necessary to assemble, install, troubleshoot, repair and modify machinery and systems that are mechanically or electronically controlled in residential, commercial, and manufacturing and facilities environments. This program will include basic training in heating, venting, air conditioning, refrigeration air distribution, plumbing, pipe fitting, and electrical systems. Basic training will also cover hydraulics, pneumatics, print/schematic reading, programmable logic controls (PLCs), operation and maintenance practices on various types of industry related equipment and systems. Classroom instruction accompanied with a hands-on approach characterizes this program. Instruction will involve applying principles and fundamentals using actual industry equipment. Students in the second year will receive more advanced instruction in sheet metal layout, drafting and design. Students will receive additional instruction related to facility and equipment maintenance procedures including the utilization of refrigerant reclamation systems. Students will be eligible to earn their North American Technician Excellence Level 2 Certification and their Environmental Protection Agency Section 608 Certification. Shop safety is paramount in this program and requires industry appropriate clothing such as long sleeved cotton work shirt, leather work boots, industrial work pants (jeans with no holes/coveralls).

DC/C/W
CONSTRUCTION TECHNOLOGY I*
Location: Herndon Bldg. A

Grade 11-12
3 Units - 2 Semesters
3 Hours Daily, AM/PM Sections

Prerequisite: Minimum 2.0 GPA; 93% attendance record; successful completion of English II and Algebra I with a C or better

Recommended: Industrial technology courses in wood, metal, electricity, and drafting

Course Description: This course provides ongoing instruction in these areas: Blueprint Reading, Basic Concrete Finishing, Structural Framing, Electrical, Plumbing, Interior Finishing, Roofing and the operation of Heavy Equipment. We promote safety with a 10-hour OSHA training program, and training in the proper operation of hand tools and power tools. We teach communication and employability skills to prepare students for the workplace. Students will acquire knowledge and develop technical skills through classroom instruction as well as planning and constructing related projects. Each of the areas consists of some hands-on training. This course uses the Carpenter Millwright curriculum and if completed can eliminate some entry level training and higher rate of pay at the start. Students desiring more in-depth study may opt to return for a second year of training if space is available.



College Credit: This course is required to obtain the 14 college credits affiliated with Construction Technology II -
-Industrial Internship

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

DC/C/W
CONSTRUCTION TECHNOLOGY II*
Location: Herndon Bldg. A

Grade 12
3 Units - 2 Semesters
3 Hours Daily, AM/PM Sections

Prerequisite: Completion of Construction Technology I with B- or better and 93% attendance. Completion of IRC and OSHA-10 certification.

Recommended: Industrial technology courses in wood, metal, electricity, and drafting

Course Description: This course is designed to prepare students to enter into the construction career field. The second year is a higher level process of construction and will require more in-depth knowledge of the units covered in Construction Technology I. Students will be expected to do independent research of jobs and how trades work together effectively to complete a project. Students will work on personal skills of how to manage a job and the work of others, including the estimation of costs and labor. Students will continue learning basic skills in all areas of construction along with construction math skills, problem solving skills, material estimation, labor calculations, goal setting, and business development. Students will acquire knowledge and develop technical skills through classroom instruction as well as planning and constructing related projects. Students will complete the Carpenters Level 3 certification through this program which could result in a higher rate of pay if joining a Carpenter's Union Contractor.

College Credit: Students completing two years of Construction Technology are eligible for up to 14 college credit hours at Metropolitan Community College.
--Industrial Internship

C/W
COSMETOLOGY*
Location: Herndon Bldg. A

Grade 12
8 Units - 2 Semesters
8 Hours & 20 Minutes Daily

Prerequisite: Min. 2.0 GPA; 90% attendance record successful completion of English II and Algebra I with a C or better. Applicants must have completed all high school graduation requirements (except Practical Arts electives and English IV) by the beginning of their senior year.

Recommended: Art, anatomy and physiology, biology, chemistry, business management and communications.

Course Description: The Cosmetology program at Herndon Career Center prepares students for the Missouri State Board of Licensing examination and to become employed as a cosmetologist. The major study units of this 1,220-hour, full-day program are understanding the properties of hair and scalp; haircutting techniques; chemical applications; skin care and make up; nail care; personal hygiene; business and professional ethics; safety, sterilization and sanitation methods; salesmanship and communication skills; and state laws and rules. Students will need to work well in a team environment. Students are expected to have and wear approved uniforms daily and provide daily transportation for themselves to school (students may ride school transportation to school; however, they will have to arrange for personal transportation home every day due to the extended hours of instruction for Cosmetology). Student hours are Monday and Friday from 7:40 – 2:20 and Tuesday through Thursday from 7:40 – 4:15. Students through this program will be eligible to sit for the Missouri State Board of Cosmetology Exam. Students will also earn their Milady Rise Certification, Barbicide COVID-19 Certification, Barbicide Certification, and OSHA-10 for general industry.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

Expectations: Students are expected to purchase a salon kit totaling approximately \$1,100.00 and includes items that prepare students for the State Board of Cosmetology exam and give them a foundation kit for entering the Cosmetology profession. There may be additional optional licensing opportunities that require student fees throughout the year. Students do not require a social security number in order to enroll in the course, but will need one in order to take the state board exam. A deposit of \$100 is due prior to May 15 if students are selected for this program. Once a student kit is ordered, the student will be responsible for the entire kit cost as they are non-returnable.



C/W

CULINARY ARTS*

Location: Herndon Institute of Culinary Arts

Grade 11-12
3 Unit - 2 Semesters



Prerequisite: Minimum 2.0 GPA; 90% attendance record; successful completion of English II and Algebra I with a C or better. Food Prep I and Food Prep II.

Recommended: Business Fundamentals

Course Description: The capstone classes offered at Herndon Career Center are under the umbrella of the National Restaurant Association called ProStart. ProStart is a two-year hospitality program that will develop the aspiring young leader with the restaurant skills that will lead them into college and their career.

ProStart culinary classes offer a block of time that will teach students the foundation of the restaurant industry where they will apply advanced cooking methods while learning both front of the house restaurant standards and back of the house operations. Students will do so through running a student-run restaurant. Students will learn safety and sanitation and advanced cooking methods. Students will earn their ServeSafe certification for food safety. Students will demonstrate ability to calculate food and labor costs.

Expectations: Students will order a uniform to be worn daily during class. Students may occasionally be required to work after regular school hours in order to participate in catered events and ProStart activities. Student fees will be approximately \$150 to include a consumable materials charge, ServSafe certification, and uniform fee.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

DC/C/W
CULINARY ARTS II*

Location: Herndon Institute of Culinary Arts

Grade 12
3 Unit - 2 Semesters

Prerequisite: Students must meet the 90% minimum attendance rate and B average in Culinary Arts I

Recommended: Foods and nutrition courses, health courses, business courses

Course Description: The capstone classes offered at Herndon Career Center are under the umbrella of the National Restaurant Association called ProStart. ProStart is a two-year hospitality program that will develop the aspiring young leader with the restaurant skills that will lead them into college and their career. ProStart culinary classes offer a block of time that will teach students the foundation of the restaurant industry where they will apply advanced cooking methods while learning both front of the house restaurant standards and back of the house operations. The successful ProStart student will graduate with two national certifications. One being in safety and sanitation and the other is a Certificate of Achievement. Both tie in with many post-secondary culinary institutions known as articulation agreements, such as Johnson County Community College and Sullivan University.



Expectations: Students will order a uniform to be worn daily during class. Students may occasionally be required to work after regular school hours in order to participate in catered events and ProStart activities. Student fees will be approximately \$150 to include a consumable materials charge, ServSafe certification, and uniform fee.

2nd Year Culinary Arts Special Topics: Students must meet the 90% minimum attendance rate and B- average in order to return for the 2nd year of curriculum.

College Credit: Successful students are eligible to earn up to seven hours of credit in the Johnson County Community College Culinary Arts program, and up to 12 credit hours from Sullivan University.

--Industrial Internship

C/W
DIESEL, INDUSTRIAL & AGRICULTURAL MECHANICS I*
Location: Herndon Bldg. A

Grade 11-12
3 Units - 2 Semesters
3 Hours Daily, AM/PM Sections

Prerequisite: Minimum 2.0 GPA; 90% attendance record; reading, writing, and math at the 10th grade level; above average mechanical aptitude

Recommended: Industrial Technology courses

Course Description: This course is the first year of a two-year program intended to prepare students as entry-level technicians working on heavy construction equipment, trucks, industrial plant vehicles, and agricultural equipment. Instruction will involve practice in the maintenance, service, repair, and overhaul of equipment such as engines, power trains, controls, and other components on buses, heavy trucks, and earth moving equipment, agricultural equipment, lift trucks, and stationary power plants. This course has a large percentage of graduates that enter directly into the diesel industry or post-secondary internships in the diesel mechanics field. Industry involvement is prevalent in this course. Curriculum topics will cover half of the following: oils and fuels, basic engine, HVAC, basic electronics, basic hydraulics, differentials, wheels and tires, drilling and tapping, welding and cutting, air brakes and pneumatic systems, and transmissions. Students will be eligible to earn their ASE Medium/Heavy Truck certification, ASE 609 certification, and their OSHA-10 hour safety card.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

C/W

DIESEL, INDUSTRIAL & AGRICULTURAL MECHANICS II*

Location: Herndon Bldg. A

Grade 12

3 Units - 2 Semesters

3 Hours Daily, AM/PM Sections

Prerequisite: Successful completion of Diesel, Industrial, & Agricultural Mechanics I with a grade of C or better and 90% attendance

Course Description: This course is the second year of a two-year program intended to prepare students as entry-level technicians working on heavy construction equipment, trucks, industrial plant vehicles, and agricultural equipment. Instruction will involve practice in the maintenance, service, repair, and overhaul of equipment such as engines, power trains, controls, and other components on buses, heavy trucks, and earth moving equipment, agricultural equipment, lift trucks, and stationary power plants. This course has a large percentage of graduates that enter directly into the diesel industry or post-secondary internships in the diesel mechanics field. Industry involvement is prevalent in this course. Curriculum topics will cover the remaining units on: oils and fuels, basic engine, HVAC, basic electronics, basic hydraulics, differentials, wheels and tires, drilling and tapping, welding and cutting, air brakes and pneumatic systems, and transmissions. Students will be eligible to earn their ASE Medium/Heavy Truck certification, ASE 609 certification, and their OSHA-10 hour safety card.

--Industrial Internship

DC/C/W

EMERGENCY MEDICAL TECHNICIAN*

Location: Herndon Bldg. C

Grade 12

3 Units - 2 Semesters

3 Hours Daily, AM/PM Sections



Prerequisite: Biology plus English & math at the 10th grade level

Recommended: Anatomy & Physiology

Course Description: The Emergency Medical Technician program prepares the EMT student to provide pre-hospital assessment and care for patients of all ages with a variety of medical conditions and traumatic injuries. Areas of study include an introduction to emergency medical services systems, roles and responsibilities of EMTs, anatomy and physiology, medical emergencies, trauma, special considerations for working in the pre-hospital setting and providing patient transportation. This course is physically demanding and requires a studious student focused on gaining the knowledge and skills required to pass the EMT Basic exam. Clinical observations may be necessary after school hours and would require transportation to the site. Student fees

will be approximately \$150 and include CPR, uniform, and required equipment. Successful completion of the HCC EMT program will allow the student to be eligible for the NREMT exam.

College Credit: Completion of program and IRC will allow students to articulate five credits through Metropolitan Community College.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

C/W
FOUNDATIONS OF NURSING*
Location: Herndon Bldg. C

Grade 12
3 Units - 2 Semesters
3 Hours Daily, AM/PM Sections

Prerequisite: Minimum 2.0 GPA; 90% attendance record; Biology, Chemistry or Principles of Biomedical Science with a C or better; reading, writing, & math at 10th grade level.

Recommended: Anatomy and Physiology, Intro to Health Careers, Chemistry, Psychology

Course Description: This one-year program is designed for students to explore a career in Nursing and related health careers. This program includes classroom and hands-on/clinical experiences. Classroom instruction includes anatomy, physiology, medical terminology, and entry level nursing topics. Classroom instruction also includes American Heart Association CPR and First Aid certification. Students will learn and practice clinical skills in a controlled simulation lab. Students will then spend 100 hours at various long-term care facilities perfecting their clinical skills. Students will have opportunities to observe other health care professionals. Students who complete the program will have met the requirements to take the final examination to become a Certified Nurse Assistant (CNA). **The student must provide his/her own transportation to the clinical sites.** A background check will be required for clinical experiences as well as a TB skin test, and physician's statement acknowledging the student can physically handle the required tasks to obtain the CNA. Students must have a social security number in order to get the background screening (Family Care Registry) and meet the clinical site requirements. Students may need to provide proof of vaccination against COVID-19 or an exemption to participate in clinicals. Uniforms will be required for clinical experiences, and paid for through student fees. **Student contribution to course expenses could be up to \$220 (for equipment, scrubs, etc.).**

C/W
FOUNDATIONS OF NURSING II*
Location: Herndon Bldg. C

Grade 12
3 Units - 2 Semesters
3 Hours Daily, AM/PM Sections

Prerequisite: Completion of Foundations of Nursing I with a B or better, 95% attendance in Foundations of Nursing

Recommended: Anatomy and Physiology, Intro to Health Careers, Chemistry, Psychology

Course Description: Students who successfully pass their Certified Nursing Assistant certification as a Junior, may elect to enroll in the course a second year to focus on Certified Med Technician certification. Certified Medical Technicians provide intermediate care or work in skilled care nursing facilities. This program will teach students skills needed to administer nonparenteral medications. Curriculum will cover a review of body systems focusing on medication effect on each system, medical terminology, infection control, and medication classifications. Enrollment is limited to two second-year students per section. Students must meet eligibility requirements including 95% attendance at HCC (no unexcused) and cumulative HCC grade of 90% or higher.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

**INTRO TO PHYSICAL THERAPY & SPORTS
MEDICINE I**
Location: Herndon Bldg. C

Grade 11-12
3 Units - 2 Semesters
3 Hours Daily, AM/PM Sections

Prerequisite: Minimum 2.0 GPA; 90% attendance record; Biology I with a C or better, reading, writing, & math at 10th grade level.

Recommended: Anatomy and Physiology, Intro to Health Careers, Chemistry, Psychology

Course Description: Prepare for a rewarding career as a valued member of the physical therapy team while learning all about the human body, specific disorders, and the way physical therapists treat these disorders. Students will explore the history of physical therapy and the relationships between physical therapists, physical therapist assistants, physical therapy aides, and sports medicine professionals. Students will learn how to communicate effectively by using proper medical terminology with other health care professionals and patients. Students will learn proper body mechanics and how to safely move patients. Students will come to understand how to help patients walk with assistive devices like walkers, crutches, and canes. Students will also investigate various balance and coordination disorders. Students will learn to show understanding of common physical therapy techniques, including the use of heat and cold modalities, and their effects on the body. Students will learn about injury recognition and prevention, along with exercise programming and nutrition and weight management. By the time students finish this course, they will have gained valuable knowledge and be well on the way to becoming an important member of the physical therapy and sports medicine team! Students in this course will have the opportunity to earn their OSHA 10-Healthcare and CPR certifications.

INTRO TO PHYSICAL THERAPY & SPORTS MEDICINE II
Location: Herndon Bldg. C

Grade 12
3 Units - 2 Semesters
3 Hours Daily, AM/PM Sections

Prerequisite: Min 2.0 GPA; 90% attendance record; Biology I with C or Better; reading, writing, and math at 10th grade level; successful completion of 1st year of Intro to Physical Therapy and Sports Medicine Program with B or better.

Recommended: Anatomy and Physiology, Intro to Health Careers, Chemistry, Psychology

Course Description: This course is designed for students to further develop the knowledge and skills which will best prepare them for a future in the fields of physical therapy and/or sports medicine. Students will take a more in-depth look at the anatomy of the human body and develop a deeper understanding as to how they can assess and respond to patients who experience a particular injury or illness. Students will gain additional exposure to hands-on learning, enhance patient care and employability skills, provide mentorship to peers, and participate in ongoing career exploration. Students will have the opportunity to renew their BLS certification. Upon completing this course, students will be well on their way to becoming an important member of the physical therapy and sports medicine team! Students will be expected to provide their own transportation to and from any individual site visits. Professional dress (as indicated by industry site) with closed-toe shoes is expected during industry interactions. Clinical sites may require students to possess a background check, TB skin test, and physician's statement acknowledging the student can physically handle the required tasks. Student transportation may be required to clinical observations.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

DC/C/W
LAW ENFORCEMENT/POLICE SCIENCE I *
Location: Herndon Bldg. C

Grade 11-12
3 Units - 2 Semesters
3 Hours Daily, AM/PM Sections

Prerequisite: Minimum 2.0 GPA, 90% attendance record; reading, writing and math at a 10th grade level

Course Description: This course is a one year course and will provide students with knowledge in the field of law enforcement/police science and prepare them for continuing education and ultimately, employment in a related field. This course is designed to acquaint the student with historical perspectives of law enforcement and a variety of criminal justice career fields, including but not limited to: Crime Scene Investigation, Law Enforcement, Police Science, Patrol Theories and Report Writing, Legal Studies, and Leadership Competencies. Course content may include the discussion and viewing of extensive crime scene video and photography. Students will be exposed to use of force scenarios in which they must effectively decide whether to use force and what level of force is acceptable, or no force. Students will be exposed to real world scenarios which include language and actions consistent with law enforcement encounters. All are significant and vital to our past, present and future in the investigation of such crimes. A variety of guest speakers from various specialties will present on law enforcement related topics. The goal is to become increasingly aware of the social forces that shape our lives and gain insight into the many different aspects of law enforcement and how they influence society's views and opinions on how we deal with and handle crimes. A shirt will be issued to students. Students may be expected to purchase a pair of khaki style pants and black leather tennis shoes or boots.

College Credit: This course is eligible for up to six credit hours of dual credit through Missouri State University.

DC/C/W
LAW ENFORCEMENT/POLICE SCIENCE II *
Location: Herndon Bldg. C

Grade 12
3 Units - 2 Semesters
3 Hours Daily, AM/PM Sections

Prerequisite: Completion of Law Enforcement/Police Science I with a B- or better, 93% attendance during first year of the course.

Course Description: This course is an expansion of the first year of the Law Enforcement/Police Science program. This opportunity will include opportunities for students to job shadow or intern with local police departments, courts, or correctional institutions. Students will be required to engage in at least one civic engagement/community service project at the local school. Students in the second year of this program will support skill acquisition of first-year students while reinforcing their knowledge of appropriate tactics and procedures when conducting patrol work, police investigations, or other types of arrest procedures. Students will receive advanced training in professional skills such as de-escalation skills, leadership skills, ethical decision making, social responsibility, empathy, critical thinking, and time management. Students will continue to engage in video and picture content of real crime scenes and police work which may contain language and actions consistent with what law enforcement may encounter in the community. A variety of guest speakers from various specialties will present on law enforcement related topics. Use-of-force incidents will be discussed and students will participate in reality-based training to determine the amount of reasonable force. Legal proceedings and court cases will be discussed as a basis for understanding the legal process after the point of arrest. This will also help broaden student understanding of law enforcement's obligation to provide court testimony and support student learning in the importance of note-taking, technical writing, and objective based observations.

College Credit: College credit may be available through Missouri State University for field experience.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

DC/C/W
WELDING/METAL FABRICATION I*
Location: Herndon Bldg. A

Grade 11-12
3 Units - 2 Semesters
3 Hours Daily, AM/PM Sections

Prerequisite: Minimum 2.0 GPA; 90% attendance record; reading, writing and math at the 10th grade level

Recommended: Students should take basic drafting and metals classes if they are available at their high school

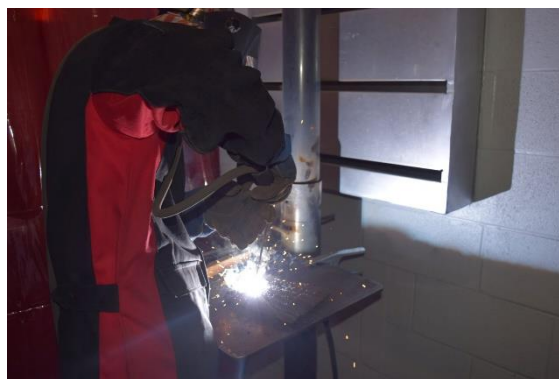
Course Description: This course is the first year of a two-year program that prepares students to meet the American Welding Society's entry-level employment requirements or pursue post-secondary training. Laboratory work includes basic flame cutting, oxy-fuel welding and shielded metal arc welding of mild steels. Classroom instruction covers welding theory, terminology, techniques, measuring, mathematics and beginning blueprint reading. Safety, work ethic and employability skills are emphasized at all times. Students must supply their own protective cotton clothing (a long-sleeved work shirt, welding cap, above-the-ankle leather work boots, and jeans or coveralls in good condition). Students who wear glasses are recommended to purchase prescription safety glasses. Students are responsible to replace any equipment initially supplied by the school, such as gloves, helmet, goggles, pliers, etc. Safety, work ethic, employability skills, quality of work and pride in workmanship are emphasized at all times.

Other Qualifications Available: Students will have an opportunity to complete and receive an OSHA 10 hour safety card and will complete AWS SENSE online training. Students must complete AWS SENSE training and pass a designated welding test to earn their IRC.

College Credit: Seniors completing Welding/Metal Fabrication may be eligible for up to 20 hours of articulated credit through Ozark Technical Community College.

DC/C/W
WELDING/METAL FABRICATION II*
Location: Herndon Bldg. A

Grade 12
3 Units - 2 Semesters
3 Hours Daily, AM/PM Sections



Prerequisite: Successful completion of Welding/Metal Fabrication I with a grade of C or better and 90% attendance

Course Description: This class is the second year of a two-year program that prepares students to meet the American Welding Society's entry-level employment requirements or pursue post-secondary training. Major units of study include advanced shielded metal arc welding (structural and pipe), plus gas metal arc welding, gas tungsten arc welding and plasma arc cutting on carbon, stainless steel and aluminum. Classroom instruction covers advanced welding theory, blueprint reading, and layout and fit-up. Students

must supply their own protective cotton clothing (a long-sleeved work shirt, welding cap, above-the-ankle leather work boots, and jeans or coveralls in good condition). Students who wear glasses are recommended to purchase prescription safety glasses. Students are responsible to replace any equipment initially supplied by the school, such as gloves, helmet, goggles, pliers, etc. Safety, work ethic, employability skills, quality of work and pride in workmanship are emphasized at all times.

College Credit: Students completing two years of Welding/Metal Fabrication are eligible for 20 hours of articulated credit through Ozark Technical Community College.

--Industrial Internship

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

Course Description: This course is designed for students who wish to develop higher-level skills. It will be offered to students who have successfully completed their program or are currently enrolled in the advanced level. **The Herndon instructor, director and sending school counselor must approve enrollment in Special Topics.** The instructor will provide an individual syllabus for each student. Required supplies are the responsibility of the student.

SUMMIT TECHNOLOGY ACADEMY



SUMMIT TECHNOLOGY
ACADEMY

Academics Amplified. Professions Launched.

SUMMIT TECHNOLOGY ACADEMY at The Missouri Innovation Campus Building, 1101 NW Innovation Parkway, Lee's Summit, MO (STA.LSR7.org). All courses are pending Lee's Summit Board of Education approval

** Denotes a Project Lead the Way (PLTW) course, which is a nationally recognized engineering, biomedical, and computer science curriculum being offered through numerous school districts. Students can advance through a sequence of courses such as Introduction to Engineering Design, Principles of Engineering, Civil Engineering and Architecture (CEA) in order to access the capstone engineering courses at STA. Likewise, students can advance through Principles of Biomedical Science and Human Body Systems in order to access the capstone course of Medical Interventions/Biomedical Innovation. Ask your school counselor about information regarding PLTW or go to www.pltw.org. Courses marked with double asterisk (**) are approved Project Lead the Way courses.

All STA capstone courses are part of the International Baccalaureate Career-Related Program course, which incorporates the educational principles, vision and learner profile of the IB into a unique offering that specifically addresses the needs of students who wish to engage in career-related education. The IBCP encourages students to benefit from an IB education, through a selection of two or more Diploma Programme courses in addition to a unique IBCP core, comprised of a Personal and Professional Skills course (see description in the social studies section of the course guide), a reflective project, language development, and community service.

All Summit Tech Academy programs require home internet access.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

ENGINEERING PATHWA: ENGINEERING ELECTIVE COURSES

(Students need to choose 2 of 3 courses (DE, CIM, AE) to make a full-year selection.)

W/DC/C

DIGITAL ELECTRONICS (DE) PLTW**

Grade 11-12

1.5 Units - 1 Semester

Dual Credit: UCM ENGT 1101 1050 (7 hrs credit for eligible students)

Prerequisite: GPA: 2.5 cumulative or higher; Attendance: 90% or higher; Math: Algebra I, B- or higher; Reading/Writing: 10th grade level

Recommended: Average Math and Engineering grade: B- or higher. *Engineering involves applied mathematics; therefore, students are strongly encouraged to take the most rigorous math course for which they qualify and concurrently with their engineering course.

Highly Recommended for PLTW Member Schools: Introduction to Engineering Design, Principles of Engineering

Course Description: This fast-paced, college level course in applied logic gives students the opportunity to learn how computers/logic circuits think and control the world around us. Students will use applied math to understand the logic behind the circuits, as well as computer simulation software to design and test digital circuitry prior to the actual construction of the circuits. Students will have the opportunity to learn everything from basic electronic circuit design, logic circuit design, all the way up to and including programming and interfacing with microcontrollers. Students can expect to use the engineering design process to think critically and independently solve open-ended problems.

W/DC/C

COMPUTER INTEGRATED MANUFACTURING™ (CIM) PLTW**

Grade 11-12

1.5 Units - 1 Semester

Dual Credit: UCM ENGT 1012 (2 hrs credit for eligible students)

Prerequisite: GPA: 2.5 cumulative or higher; Attendance 90% or higher: Algebra I with a B- or higher. Reading/Writing: 10th grade level.

Recommended: Average Math and Engineering grade: B- or higher Aerospace Engineering (AE) and Digital Electronics (DE) are highly recommended for students interested in avionics and aviation maintenance career paths.

Course Description: This exciting course provides students with the fundamentals of computerized manufacturing technology in a global perspective. Students will have individual and team projects in the following areas of manufacturing. Computer Modeling-using a three-dimensional, solid modeling software package with mass property analysis and design interface tools. CNC Equipment-understanding the machinery and tools and their operating and programming aspects. CAM Software-converting computer generated geometry into a program to drive CNC machine tools. Robotics- robotic arm programming and how they are used for materials handling and assembly operations. Flexible Manufacturing Systems-working in teams to design manufacturing work-cells and table top factory simulations. The students will interact with industry experts and should expect to be challenged with ideation and creation of projects while working within a set of constraints. There will also be client connected projects that will be done as part of our connections to business partners in the area.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

W/C
AEROSPACE ENGINEERING™ (AE) PLTW**

Grade 11-12
1.5 Units - 1 Semester

Prerequisites: GPA: 2.5 cumulative or higher. Attendance: 90% or higher. Algebra II with a B- or higher.
Reading/Writing: 10th grade level.

Highly Recommended for PLTW Member Schools: Introduction to Engineering Design (IED), Principles of Engineering (POE)

Recommended: Average Math and Engineering grade: B- or higher; Physics (completed or concurrent enrollment).
*Engineering involves applied mathematics; therefore, students are strongly encouraged to take the most rigorous math course for which they qualify and concurrently with their engineering course.

Course Description: Ever wonder what makes an airplane fly? Aerospace Engineering will give students the opportunity to understand the physics of flight. This course provides students with the fundamental knowledge and experience to apply mathematical, scientific, and engineering principles to the design, development, and evolution of aircraft, space vehicles and their operating systems. In the classroom, students will engage in creative thinking and problem-solving activities using software that allows students to design, test, and evaluate a variety of air and space vehicles, their systems, and launching, guidance and control procedures. Students will build and test airfoils, gliders and model rockets as well as fly a plane in a flight simulator program. Students can expect to work with and/or be mentored by professionals in the aviation/aerospace career field from around the Greater Kansas City metropolitan area.

W/DC/C
AEROSPACE ACADEMY

Grade 11-12
3 Units - 2 Semesters

Dual Credit: UCM AVIA 1020, 1211, 1212, 1213, 1310, 1903 (11 credits available to eligible students)

Prerequisites: GPA: 2.5 cumulative or higher; Attendance: 90% or higher Algebra I with a B- or higher;
Reading/Writing: 10-th grade level

Recommended: Average Math and Engineering grade: B- or higher Aerospace Engineering (AE) and Digital Electronics (DE) are highly recommended for students interested in avionics and aviation maintenance career paths.

Course Description: Have you ever wanted to design, maintain, or pilot an airplane or rocket? Are you interested in a deeper understanding of what it takes to work in the Aviation and Aerospace fields? The Aerospace Academy Capstone provides advanced level avionics/aviation/aerospace preparation for students pursuing careers in seven aviation/aerospace pathways. This program represents a collaboration between STA, the City of Lee's Summit, the Lee's Summit Economic Development Council, and the Lee's Summit Municipal Airport and includes potential lab opportunities for students at the airport. Students will learn cutting-edge curriculum developed by subject matter experts in aerospace/aviation including acquiring learning targets for FAA Remote Pilot certification, career exploration for the seven aerospace workforce pathways, hands-on applied learning experiences at the Lee's Summit Airport utilizing industry standard equipment, and a field experience within one or more of the seven aerospace pathways.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

ENGINEERING SENIOR CAPSTONE COURSES

W/C

ENGINEERING DESIGN AND DEVELOPMENT™ (EDD) PLTW**

Grade 12

3 Units - 2 Semesters

Prerequisite: GPA: 2.5 cumulative or higher; Attendance: 90% or higher; Math: Algebra II, B- or higher.

Prerequisite for PLTW Member Schools: Introduction to Engineering Design (IED), Principles of Engineering (POE), and one of the following courses: Digital Electronics (DE), Computer Integrated Manufacturing (CIM), Aerospace Engineering (AE) or Civil Engineering/Architecture (CEA).

Recommended: Average Math and Engineering grade: B- or higher; Pre-Calculus (completed or concurrent enrollment) OR Physics with a B or higher. *Engineering involves applied mathematics; therefore, students are strongly encouraged to take the most rigorous math course for which they qualify and concurrently with their engineering course. **Fall Semester (EDD)** Student design teams work on an open-ended problem in which they research, design, and construct a solution. Students apply principles developed in the four preceding courses, learn advanced physics and mathematical applications, and are guided by engineering mentors. Design teams must present progress reports, submit a final written report, and defend their solutions to a panel of Kansas City area engineering professionals at the end of the fall semester. There may be opportunities to work with local business partners in helping solve some client-connected projects if the team so chooses.

Spring Semester the Engineering Field Experience (EFE) Prerequisite: B- or better in EDD, and a B- or better in the mathematical activities as presented by the instructor throughout EDD. The Engineering Field Experience (EFE) course is designed to provide students with those experiences that are relevant to the day-to-day working environment of professional engineers – independent thinking, problem-solving, teamwork and communication. A project is determined by a local business partner that includes aspects of various engineering fields, such as mechanical, electrical and civil. Engineers will be the subject matter experts and teach relevant topics to the students twice a week to aid in the completion of the project. Students will be divided up into teams based upon the needs of the project and will be expected to work as a team to bring the project to fruition. Students will consider all aspects of the planning and design for the project and present their findings at the end of the semester. ***Students will need to make arrangements for transportation to off-site visits on predetermined dates. Please speak with the administration if you have any transportation concerns.**

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

COMPUTER SCIENCE PATHWAY

W/DC/C
DevSecOps

Grade 11-12 1.5
Units - 1 Semester

Dual Credit: UCM NET 1060, CYBR 1500 (6 credits available to eligible students)

Prerequisite: GPA: 2.5 cumulative or higher; Attendance: 90% or higher; Math: Algebra I, B- or higher; Reading/Writing: 10th grade level. Other requirements: Keyboarding, minimum 30 WPM, and a fully functional laptop or desktop system (IE: not a Chromebook or Mac)

Recommended: One of the following courses: PLTW Computer Science Essentials OR PLTW Computer Science Principles OR CHAOS I (offered through R7 online)

Course Description: Take your first steps in your career in software development! Development, Security, and Operations (DevSecOps) is a deep dive into the foundations of network operations by using the lens of security to tie it all together. Hands-on and simulation-based activities in this course assist with implementing network operations with software development and cyber security concepts. Students will see how culture, automation, and platform design integrates security as a shared responsibility throughout the entire IT lifecycle. In this course, you will learn about the OSI Model and how that model allows IT to function across Software Development, CyberSecurity and Network Operations. Specifically, you will learn the principles and structure of IP addressing, LAN and WAN specifications, and network management. This course encompasses 2 additional college classes (6 college credits) in order to prepare the student for the CompTIA IT Fundamentals+ Certification Exam. Learn information the tech industry needs for high-demand, high-wage tech careers. Students interested in the MIC CyberSecurity early bachelor degree program must enroll in this course and *Advanced Network and Cyber Concepts*.

W/DC/C
ADVANCED NETWORKING and CYBER CONCEPTS

Grade 11-12
1.5 Units - 1 Semester

Dual Credit: UCM Net 1061, 2060 (6 credits available to eligible students)

Prerequisite: DevSecOps with a B- or higher or teacher recommendation; GPA: 2.5 cumulative or higher; Attendance: 90% or higher; Math: Algebra I, B- or higher; Reading/Writing: 10th grade level; Other requirement: Keyboarding, minimum 30 WPM, and a fully functional laptop or desktop system (i.e. not a Chromebook or Mac).

RECOMMENDED: One of the following courses: PLTW Computer Science Essentials OR PLTW Computer Science Principles OR CHAOS I (offered through R7 Online)

Course Description: This course provides a comprehensive, theoretical, and practical approach to learning the technologies and protocols needed to design, implement, and secure enterprise and wide area networks. This includes functionality, configuration, and troubleshooting of inter-VLAN routing, VLANs, WLANs as well as wide area networking technologies. This course encompasses 2 additional college classes (6 college credits) in order to prepare the student for the Cisco Certified Network Technician certification exam. Students interested in the MIC CyberSecurity early bachelor degree program should enroll in this course after completing and DevSecOps.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

W/DC/C
CYBER SECURITY

Grade 11-12
1.5 Units - 1 Semester

Dual Credit: UCM CYBR 1800 (3 credits available to eligible students) MCC CSIS 170 (CSIS 110 is a prerequisite for this course)

Prerequisite: DevSecOps with a B- or higher or teacher recommendation; GPA: 2.5 cumulative or higher; Attendance: 90% or higher; Math: Algebra I, B- or higher; Reading/Writing: 10th grade level; Keyboarding, minimum 30 WPM

Course Description: This course will give students hands-on experience into network security protection, as well as an understanding of the types of attacks used against networks. The course will cover policies such as risk management, data privacy, employee management, device management, network management, and business continuity. Students will also learn current technologies such as SSH, AAA, ACLs, IPS/IDS, PKI and others. Students will develop an understanding of physical, perimeter, network, host, application and data defenses. This course covers the information required for the Cisco Network Security and CompTIA Security+ certification exams.

W/DC/C
CYBER OPERATIONS

Grade 11-12
1.5 Units - 1 Semester

Dual Credit: UCM NET 2061 (3 credits available to eligible students)

Prerequisite: DevSecOps with a B- or higher or teacher recommendation; GPA: 2.5 cumulative or higher; Attendance: 90% or higher; Math: Algebra I, B- or higher; Reading/Writing: 10th grade level. Other requirement: Keyboarding, minimum 30 WPM.

Course Description: Uncovering cybercrime, cyber espionage, and other networking threats are just some of the exciting cyber security jobs spanning across every industry. Learn the skills to join this fast-growing field and take advantage of the opportunities found in security operation centers. Feel confident that you are helping make the world a safer place by pursuing a role in this field. In this course, you will learn security concepts, security monitoring, host-based analysis, network intrusion analysis, and security policies procedures. This course also aligns with the National Initiative for Cybersecurity Education (NICE) Cybersecurity Workforce Framework.

W/DC/C
SOFTWARE DEVELOPMENT - Python

Grade 11-12
1.5 Units - 1 Semester

Dual Credit: UCM CS 1030, 2030 (6 credits available to eligible students)

Prerequisite: GPA: 2.5 cumulative or higher; Attendance: 90% or higher; Math: Algebra II, B- or higher or previous programming knowledge; Reading/Writing: 10th grade or higher; keyboarding minimum 30 WPM.

Recommended: One of the following courses: PLTW Computer Science & Software Engineering OR PLTW Computer Science Principles **OR** CHAOS I (offered through R7 Online)

Course Description: Become empowered to program by learning the critical concepts of computer programming through the Python language. Learn Python content currently taught in college curriculum and in industry. Topics include basic computer organization and systems, data representation, algorithms, selections, loops, functions, classes, objects, elementary programming, applications, strings and text I/O, inheritance, lists, dictionaries, scripting, and various Python libraries. Students interested in the MIC Computer Science: Software Development or Software Engineering early bachelor degree program must enroll in this course and *Software Development – Java*.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

W/C**Grade 11-12****SOFTWARE DEVELOPMENT - Data and Artificial Intelligence 1.5 Units - 12 Semesters**

Prerequisite: Software Development - Python with B- or higher or PLTW Computer Science Principles or teacher recommendation; GPA: 2.5 cumulative or higher; Attendance: 90% or higher; Math; Algebra II, B- or higher or previous programming knowledge; Reading/Writing: 10th grade or higher; keyboarding, min. of 30 wpm. Prior understanding of the Python programming language is recommended.

Course Description: Do you ever wonder why ads “just so happen” to pop up for you? Data doesn’t lie, and it is being used to make decisions and guide next steps daily. Uncover the mystery behind the data. Students will use the Python programming language to learn the basics of Data Analytics as well as give them hands-on experience working with database tools available. This course, designed with our advanced learners in mind, will continue their understanding and implementation of programming fundamentals and concepts acquired through previous programming courses. We will explore python libraries specific to the field of data manipulation. By the end of the semester, students will understand how Machine Learning fits into Artificial Intelligence and use different methods of Machine Learning including Neural Networks.

W/DC/C**Grade 11-12****SOFTWARE DEVELOPMENT - Java****1.5 Units - 12 Semesters**

Dual Credit: UCM CS 1100, 1110 (6 credits available to eligible students)

Prerequisite: GPA: 2.5 cumulative or higher; Attendance: 90% or higher; Math: Algebra II, B- or higher or previous programming knowledge; Reading/Writing: 10th grade or higher and keyboarding minimum 30 WPM.

Recommended: One of the following courses: PLTW Computer Science Essentials OR PLTW Computer Science Principles OR CHAOS I (offered through R7 Online)

Course Description: Learn Java, one of the primary languages of software development. Dig into Java content currently taught in college curriculum and in industry. This course teaches essential concepts of computer programming in the structured programming paradigm using a modern high-level programming language. Topics include foundational programming concepts, data types, variables, operators, selections, loops, methods, arrays, classes, objects, strings and text I/O, inheritance, polymorphism, interfaces, GUI basics, graphics, and event-driven programming. Students interested in the MIC Computer Science: Software Development or Software Engineering early bachelor degree program must enroll in this course and Software Development - Python.

W/DC/C**Grade 11-12****SOFTWARE DEVELOPMENT - Applications****1.53 Units - 12 Semesters**

Dual Credit: UCM CS 1820 (3 credits available to eligible students)

Prerequisite: Software Development - Java or PLTW Computer Science A and a teacher recommendation; GPA: 2.5 cumulative or higher; Attendance: 90% or higher; Math; Algebra II, B- or higher or previous programming knowledge; Reading/Writing: 10th grade or higher; keyboarding, min. of 30 wpm.

Course Description: If gaming and apps are your thing, this is the course for you! Explore the history of game design while learning and utilizing the phases in the game development cycle. Learn the process of the design and implementation of software applications, including games, from initial research and development to the end goal of implementation. Students will learn what they need to create a functioning application by the end of this course

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

HEALTH SCIENCE PATHWAY

W/DC/C PROFESSIONAL NURSING

Grade 12
3 Units - 2 Semesters

Dual Credit: UCM NUR 1700/2710, and NUR 2000 (4 hrs credit for eligible students)

Prerequisite: GPA: 2.5 cumulative or higher; Attendance: 90% or higher; Math: Algebra I, B- or higher; Reading/Writing: 10th grade level; Biology and Chemistry, B- or higher

Requirements for Community Experiences and Clinical Shadowing Placement: Upon approval in the program, a negative urine drug screen and TB skin test results (at student's expense), background check and proof of immunizations required by shadowing sites; Achievement of Standard on Professional Nursing Scoring Guide.

Recommended: Anatomy/Physiology (completed or concurrent enrollment); Chemistry II; Algebra II; College Prep English

Course Description: This course is designed to prepare senior students, who have identified nursing as a clear career goal, for a college level registered nursing program. Students will be introduced to the Professional Nurse and focus on essential competencies for a successful transition into a Bachelor's of Science in Nursing (BSN) program. The program will focus on concepts of medical language, medical math, the nursing process, nursing documentation, effective communication and medical ethics. Students will learn practice clinical skills in classroom and simulation labs. OSHA-10, Basic Life Support-CPR and AHA First Aid certifications are also included in this course. Spring shadowing opportunities are available in local hospitals. Students will have the opportunity to learn in classroom settings, hand-on lab experiences, community experiences and hospital shadowing (based on current guidelines at partner hospitals locations). *CNA certification are not offered through this program.

W/DC/C ALLIED HEALTH ACADEMY

Grade 11-12
3 Units - 2 Semesters

Dual Credit: OTC HSC 110, 120 (4 credits available to eligible students)

Prerequisite: GPA: 2.5 cumulative or better; Attendance: 90% or better. Other requirements: Algebra I, Biology or Chemistry, with a C or higher, Reading/Writing: 10th grade or higher

Recommended: Anatomy/Physiology; Psychology

REQUIREMENTS for Internship Placement: Upon approval in the program, a negative drug screen and TB skin test results (at student expense), background check and proof of immunizations and vaccinations. Achievement of Standard on Allied Health Scoring Guide.

Course Description: This program is for juniors and seniors interested in learning more about Allied Health careers or who would like to enter college healthcare programs after graduation. Students will be engaged in hands-on skills lab work and projects related to Dentistry; Health Information Technology, Occupational Therapy, Paramedic/EMT, Physical Therapy/Physical Therapy, Radiology and Respiratory Care, Surgical Technology, Nursing, Polysomnography, Chiropractic, Athletic Training, Laboratory, Pharmacology, and other allied health careers. This program allows shadowing opportunities in allied health career fields. In addition, students will have opportunities to gain industry credentials such as Basic Life Saver CPR training and HIPAA credentials. **Students will have to provide transportation in order to accommodate outside lab experiences and internships.**

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

W/DC/C

MEDICAL INTERVENTIONS™/BIOMEDICAL INNOVATION™ PLTW**

Grade 11-12

3 Units - 2 Semesters

Dual/College Credit: UCM BIOL 1510 (4 credits) or Missouri S&T Bio Sci 1993 & 1983 (6 hrs credit available for eligible students). Scholarships and college credit are available at selected Universities across the U.S.

Prerequisite: GPA: 2.5 cumulative or better; Attendance: 90% or higher; home internet access is required.

Course Prerequisite: PLTW Principles of Biomedical Science and PLTW Human Body Systems preferred OR two of the following science courses: biology, chemistry, anatomy and physiology, or other related sciences with a B- or higher.

Learner Profile: independent learner; able to apply knowledge to new situations and concepts; strong desire to pursue a career in medicine; ability to read and synthesize college-level materials

Course Description:

- **Medical Interventions™** Students investigate the variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the lives of the Smith family. Students conduct laboratory experiments while exploring the medical science of how to prevent and fight infection in the human body, how to extract and evaluate the code in human DNA, how to prevent, diagnose and treat cancer, and how to determine and treat organ failure. Students are exposed to the wide range of interventions related to bacterial infections, surgery, genetic engineering, pharmacology, medical devices, and diagnostics. Students study real world medical interventions through laboratory experiences. **A background check, negative TB test and vaccinations are necessary if the student wants to shadow in the hospital lab.**
- **Biomedical Innovation™** In this capstone course students design and conduct experiments related a series of Bio-Medical science problems including Emergency Medicine, Human Anatomy and Physiology, Environmental Science, Molecular Biology, Forensic Science, and conducting Laboratory Research. Students may work with a mentor or advisor from a university, hospital, or physician's office, as they complete an Independent Research Project of their own choosing. Students present their Team Research Project along with other BI students in the metropolitan area. Scholarships are awarded to top winners. Students completing all four PLTW Biomedical courses receive a STA/PLTW embroidered doctor's style white coat.

HUMAN SERVICES AND FINANCE PATHWAY

W/DC/C

TEACHER EDUCATION ACADEMY

Grade 12

3 UnitSs- 2 Semesters

Dual Credit: UCM EDFL 2100, EDFLDX 2150 (4 hrs credit for eligible students)

Prerequisite: GPA: 2.5 cumulative or higher; Attendance: 95% or higher; Math: Algebra I, C or higher; Reading/Writing: 10th grade level, one full credit of child development: pre-school and parenting, child and adolescent psychology, psychology, or sociology; home internet access is required.

Course Description: The Teacher Educator Academy is designed for students who are considering the elementary/secondary teaching profession or a career as a corporate educator. The course offers students the opportunity to put theory into action through classroom work and practicum. Students will develop skills and professionalism needed to succeed as an educator as they work directly with students/adults in the practicum. Each student is assigned to a district school within the high school attendance boundaries or to a corporate education department. A blended instructional model of classroom and online learning is used to deliver instruction and to provide opportunities for students to develop their beliefs and philosophy of education. Students will participate in Educators Rising as part of the course requirements. **Students must provide their own transportation for experiences.**

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

Dual Credit: UCM POLS 2535 (3 hrs credit for eligible students)

Prerequisite: GPA: minimum 2.5 cumulative or higher, Attendance: 90% or higher. Completed or enrolled in at least level two Modern Language Course; **home internet access is required.**

Course Description: Upon successful completion of the Summit International Studies Academy (SISA), the requirements will be met for Modern Global Issues. If a student drops out of SISA, they must take Modern Global Issues. This course is designed for students who are passionate about world cultures and languages who need help in taking those first steps towards working internationally or studying abroad. Students will acquire 84 skills considered essential to working and studying internationally, with specific attention given to intercultural communication, international language exploration, project management and collaboration, professionalism, technology, and research. Students will then apply those skills through our student-run cultural consulting firm, Global Prep Squad (GPS). GPS works with international partners on six continents providing professionally-implemented international business tools and solutions which help guide our business clients through the challenges of working within a global context. As a student-run business, GPS has an extensive Corporate Social Responsibility commitment requiring students to work on multiple service projects utilizing international virtual teams based throughout the world. A Rotary Interact club is embedded into the class which helps to facilitate these international projects. Students will also participate in Model United Nations by writing position papers and studying the political/social/economic environments of individual countries. Students Should be comfortable using technology, presenting in front of groups, and understand the expectations of professionalism. Students will work extensively in teams both locally and globally. Student grades are determined through a unique system that allows motivated students the flexibility needed in order to personalize their experience. Students in this program are expected to think for themselves, be able to initiate and manage multiple projects on their own, and are expected to display the utmost professional behavior at all times. Students will leave this program with an extensive Personal International Network of valuable global connections that will provide the path forward for them to realize their dream of working internationally.

Student will need to make arrangements for transportation to off-site presentations, optional internships, and rides home from STA on predetermined dates.

Dual Credit: UCM ECON 1010 (9 credit hours for eligible students)

Prerequisite: GPA: 2.5 cumulative or higher; Attendance: 90% or higher; Math: Algebra I, B- or higher; Business: one full credit in Business; Reading/Writing: 10th grade level; home internet access required.

Recommended: Accounting, Introduction to Business

Course Description: This dynamic program is for students interested in learning advanced concepts in finance and financial technology (FinTech) careers and would like to enter college finance programs after graduation with a competitive advantage. Students will be immersed in problem-based and project-based instruction that mirrors the current financial industry related to the following areas: Risk Management, Data Analysis (BIG DATA), Financial Technology (Fintech), Financial Modeling, Understanding Balance Sheets and P&L Statements, Economics, Communication Skills, Corporate Finance, Commercial Banking, Investment Management and Financial Advisory Insurance. This program allows internship and shadowing opportunities in financial career fields. Students will utilize the best of modern technology with a selection of online coursework, simulations and hands-on learning.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

W/DC/C
HOSPITALITY, TOURISM & RECREATIONS MANAGEMENT

Grade 11-12
3 Units - 2 Semesters

Dual Credit: MSU HRA 210, 215 (6 credit hours for eligible students)

Prerequisite: GPA: 2.5 cumulative or higher; Attendance: 90% or higher; Math: Algebra I, B- or higher; Reading/Writing: 10th grade level; home internet access required.

Recommended: Introduction to Human Services (offered traditional or through R7-online), Introduction to Hospitality, Foods 1/Culinary Foundations

Course Description: When you plan activities, do you naturally consider the participants' experience, ensuring every detail is just right? If so, a career in Hospitality, Tourism, and Recreation Management could be a good fit for you. Hospitality, Tourism and Recreation is one of the fastest growing industries in the world which includes travel coordinators, event planners, entertainment directors, fitness directors, brand managers, and more. Skills in this area cross multiple industries as companies strive to make customer experiences the best they can be and memorable. The curriculum for this class is industry-driven, therefore matching the needs of hospitality employers across the world. The course will focus on the options available in the Hospitality, Tourism and Recreation industries as well as preparing students to understand and prepare for management. Students will be able to achieve internship hours through on-site events at the Paradise Park with the go karts and batting cages, as well as outside experiences with business partners, based on student interest. Skills learned in this course are transferable to other opportunities related to the field and will put you on a path to a successful career.

Students will earn the following industry recognized certifications: Certified Guest Service Professional (CGSP ©) and Certified Hospitality & Tourism Management Professional (CHTMP©). Other certifications are offered if a student is interested. Students must complete 100 hours of work experience to receive the CHTMP certification, which can be completed at the Paradise Park Campus during attraction open hours. Other internships may also be available based on student career interest. **Students will need to provide their own transportation periodically to accommodate practicum work.**

ARTS AND COMMUNICATIONS PATHWAY

W/DC/C
DIGITAL MEDIA TECHNOLOGY

Grade 11-12
3 Units - 2 Semesters

Dual Credit: UCM MUS 1410 (.5), MUS 1420 (.5), MUS 1450 (2 credits to eligible students).

Prerequisite: GPA: 2.5 cumulative or higher; Attendance: 90% or higher; Math: Algebra I, C or higher; Reading/Writing: 10th grade level; a total of two (2) credits in any of the following areas: Fine Arts, Practical Arts related to Arts and Communications Career Pathway (e.g. Intro Video Tech/Broadcasting, News for Print and Online I, Visual Arts, Advanced Video Tech, or comparable courses).

Additional Requirements: Applicants are required to submit one (1) audio/visual portfolio artifact such as: a video created and/or edited by the applicant (not to exceed 3 minutes), an audio file created, recorded, and/or mixed by the applicant (not to exceed 3 minutes), a digital photograph captured and edited by the applicant, a video recording of the applicant performing (this could be from a school large or small ensemble or solo performance), OR any similar item of the applicant's choice.

C = Career Course

DC = Eligible for college credit through one of many different means

W = Weighted Grade Course

Recommended: Computer Applications or Programming; proficiency in keyboarding.

Course Description: The Digital Media Technology program at Summit Technology Academy prepares students for college and careers in arts, audio/video technology, and communications. Students will focus on the complete video and audio production workflow from pre-production through post-production. They will work in teams to integrate video, motion graphics, in entrepreneurial and client-based projects for their schools and/or communities. Students have the opportunity to gain skills towards an industry-recognized certification in Final Cut Pro or Logic Pro.

NATURAL RESOURCES PATHWAY

W/DC/C

ENVIRONMENTAL STUDIES (at Paradise Park)

Grade 11-12
3 Units - 2 Semesters

Dual Credit: details pending

Prerequisite: GPA: 2.5 cumulative or higher; Attendance: 90% or higher; Math: Algebra I, B- or higher; Reading/Writing: 10th grade level; Biology I, Chemistry I with a B- or higher

Recommended: Math: Algebra II, B- or higher

Course Description:

Missouri Wildlife Studies (Fall Semester) Missouri Wildlife Studies (Fall Semester) Are you naturally curious and inspired by nature? Missouri Wildlife Studies lets you learn about the world you live in. This class allows you to develop scientific knowledge and theory about the fauna you encounter in the region. Projects you choose will unveil the world through studying our beautiful Missouri environment. You will be able to build upon your successes in previous science courses and apply those concepts to a living environment working with wild species, including snakes, birds, fish and many other animals native to the region. Through direct investigations in nature. Learning about nature through chemistry, biology and statistics will allow you to view your world in new and exciting ways. During this class you can gain valuable college and career experience. Through habitat development and animal care, students will be able to personally improve the lives of animals.

Missouri Natural Resources (Spring Semester) Are you ready to begin down a path to prepare for a future in environmental science? Scientific studies in the field allow students to not only understand their world, but see how they can make a difference. At Paradise Park, students investigate nature through ecological, cultural, and economic lenses with a hands-on approach in natural habitats. Environmental science students make sense of the science within Missouri ecosystems as they experience Missouri wildlife phenomenon, share questions about the phenomenon and try to answer a class-identified question about a phenomenon. Students use critical thinking skills to develop and monitor live plant life and native animals. Students in this class have a chance to participate using practical and technical skills to make their own meaning of science concepts. This scientific inquiry course allows students to incorporate place-based learning, project-based learning, and problem based learning, with an emphasis on participation in community conservation leadership.

INTERNSHIPS

W/DC/C INTERNSHIP IN MIC

**Grade 12
3 Units - 2 Semesters**

Prerequisite: ONLY AVAILABLE TO STUDENTS WHO STARTED IN MISSOURI INNOVATION CAMPUS PROGRAM PRIOR TO THEIR JUNIOR YEAR

Course Description: This course is for students who will be completing an internship through one of the MIC business partners. Student will attend STA either first or second semester and will take a dual credit course through MCC as part of this course. Students should enroll in this course for the entire year.

W/C INTERNSHIP IN STEM CAREERS

**Grade 12
3 Units - 2 Semesters**

Prerequisite: unweighted GPA of 3.0 or higher; 95% attendance or higher

Requirements for Placement: Gained technical experience through sending high school programs OR completed an STA program as a junior. Students interested in an internship such as **Cerner Scholars** should apply for Internship in STEM Careers program. Selection for Cerner Scholars positions is ultimately up to Cerner.

Course Description: This course/internship offers students a chance to earn high school credit for a unique, problem-based learning experience in a highly competitive work environment in the areas of science, technology, engineering and math (STEM). Students will secure an internship in an area that matches their chosen area of focus. Interns will work collaboratively to solve a variety of relevant problems, as well as participate in real-work and job exploration activities. At the completion of the program, interns will demonstrate their communication and collaborative skills through a senior exposition. **Student must provide their own transportation.**

CAREER AND EDUCATIONAL PLANNING

COUNSELING

The counseling program is an integral part of the total education program. As part of the total continuing education process, its components are identifiable, accountable, and focus on all children rather than just those who would seek out the counselor.

Based on individual, family, school, and community needs, the developmental guidance program is delivered through the direct components of the guidance curriculum, individual planning system, and responsive services. Indirect services supporting the total educational process are also provided by the counseling program.

As a comprehensive and developmental educational program, the counseling program is responsible for assisting all students in:

- personal/social development
- educational planning and development
- career exploration and planning

The counseling program provides responsive services designed to aid individuals in resolving problems which prevent their healthy development or which require remedial attention. Additionally, the counseling program provides a systematic plan to help each student monitor and direct his/her own educational, vocational, and personal development. Finally, the counseling program includes system support activities designed to establish, maintain, and enhance the total program.



Counseling services are available in grades 6-12. There are full time counselors in the middle and high school counseling offices to assist students with their academic, career, and personal-social interests and concerns. In addition to counseling, materials are available concerning areas of occupation or college information. Each student is encouraged to visit with their counselor. As part of the continuing guidance services offered to students as they graduate, exit surveys and one and five-year follow-up surveys are conducted. Information gathered includes documentation of graduate plans for the future. It also provides information relative to graduates continuing the paths they initially planned. All surveys collect information on the quality of education provided and how helpful it was in preparing graduates for further education and careers. Finally, this service offers updated demographic information on our graduates.

MISSOURI CONNECTIONS AND CAREER AND EDUCATIONAL PLANNING

“What do you want to do after high school?” That is a question that is asked of our students a multitude of times over the course of their public school education. It’s a question that is not easily answered, due to the enormous number of possible post-secondary alternatives that are currently available to our students. Technological advances and global competition have transformed the



nature of both education and work. Tomorrow’s jobs will require more knowledge and training, highly developed 21st Century Skills, technological skills, and more flexible workers than ever before. Our students need to be prepared for, and informed of, the reality of several job and career changes over the course of their lifetimes. They need to understand that they will have to continually update their knowledge and skills, which may require additional training and/or education.

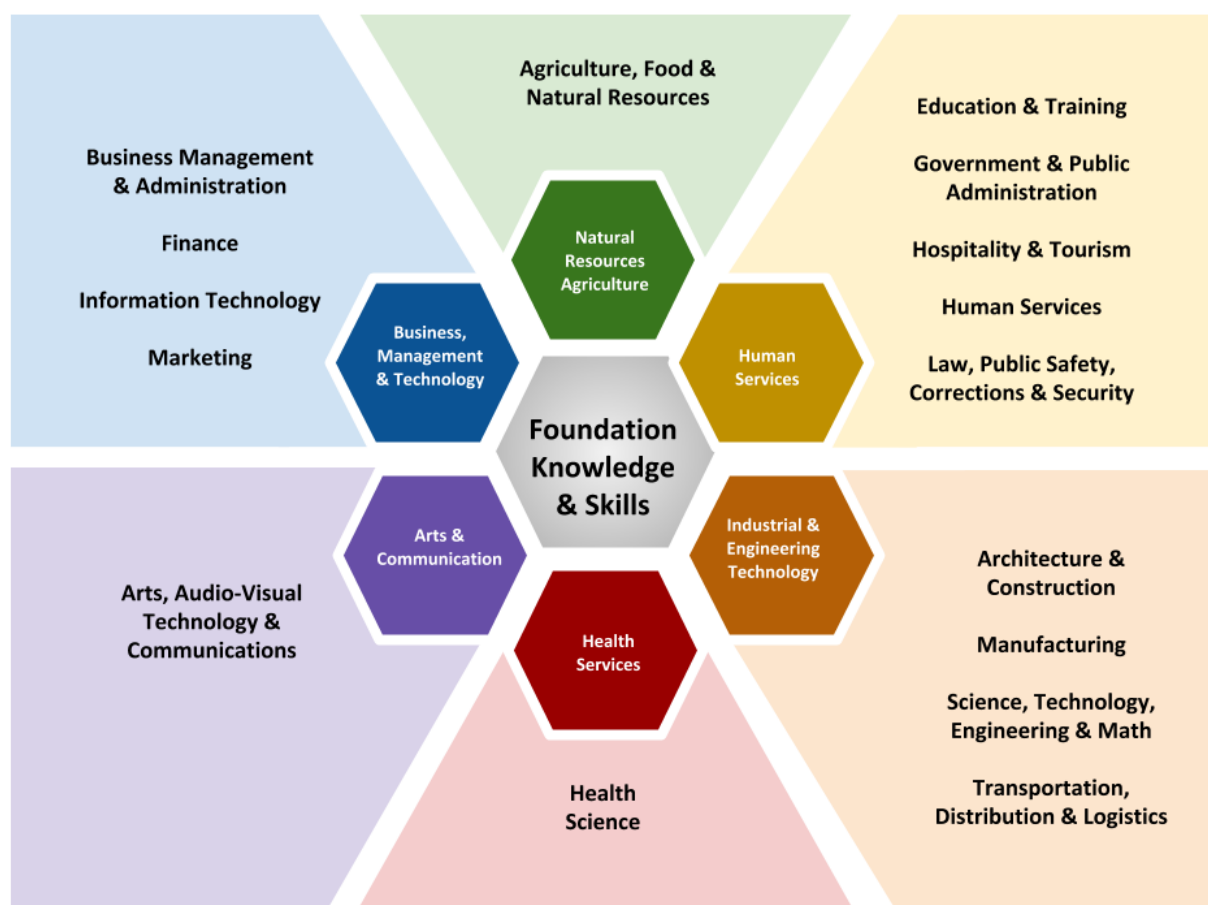
The Raytown School District offers a wide array of courses and experiences to its students. As students review course offerings and activities, we hope to guide them in choosing coursework and experiences that are relevant to their future goals.

In planning for post-secondary goals, students should start with examining where their own interests and talents lie. This can be accomplished in many different ways within the school district; researching middle and high school classes of interest, taking interest and skill inventories, participating in career fairs offered, and taking advantage of the many extra-curricular and enrichment activities available. The school district uses the Missouri Connections online program (www.missouriconnections.org) for interest assessments and to explore the variety of options students have beyond high school.

Using the results of career assessments students create their Individual Career and Academic Plan (ICAP) for their high school years and beyond. School counselors, advisory teachers, instructional teachers, and other district personnel, are available to guide students and parents in this important planning process. The planning process is critical to not only meeting graduation requirements, but also to taking the coursework that will ultimately lead to a successful post-secondary transition.

The following program of study templates serves as a guide, along with other career planning materials, to help students develop their personal plans of study. Courses listed within these programs of study templates are recommended coursework only and should be individualized to meet each learner’s educational and career goals.

CAREER PATHS AND CLUSTERS



PURPOSE OF CAREER CLUSTERS

Career paths are clusters of occupations/careers grouped according to participants' interests and talents or skills. All paths include a variety of occupations that require different levels of education and training. Thus, career paths provide a plan for all students, whatever their interests, abilities, talents, or desired levels of education. Selecting a career path provides a student with an area of FOCUS, along with FLEXIBILITY and a VARIETY of ideas to pursue. The focus of career paths is on helping students choose a career path, not a specific occupation. Selecting a career path is not a lifelong commitment; it is a place to begin focusing one's energies. As students take different courses and learn more about themselves and careers, they will probably change career paths. Students who understand the career paths concept will be aware that there are a variety of other related possibilities if the first path no longer fits them. If different career paths become more interesting, the students can reevaluate plans, make appropriate decisions, and revise their high school plans as necessary.

The 16 Career Clusters is an organizing framework for careers based on common knowledge and skills. The clusters assist students and educators in tailoring coursework and experiences that will

best prepare them for success in their chosen career areas. The clusters provide depth to Missouri's six Career Paths, which have been used by educators for years with younger students, and the clusters further narrow with pathways that describe a more specific collection of careers.

Raytown's students complete career exploration assessments starting in the 8th grade. This is a way the student can identify an initial career path choice. Counselors and Advisory teachers will then use this information to assist students in making course selections and developing a five-year plan.

In choosing a career path, students should:

1. Identify your interests, abilities, and talents.
2. Identify the career path or cluster that relates to your interests, abilities, and talents.
3. Explore occupations in those career paths or clusters.
4. Decide how much education you want to receive after high school.
5. Develop an Individual Career and Academic Plan (ICAP) by selecting courses and co-curricular activities that relate to your career educational and career goal.
6. If undecided regarding a career path or cluster, choose courses from different career areas to give you a better idea of your interests.

CAREER PLANNING COMMON LANGUAGE

Individual Student Planning Vocabulary

Guidance and Counseling Missouri Department of Elementary and Secondary Education 2015

- **Career Awareness:** Gaining knowledge of career paths and job opportunities and the skills and qualifications necessary to be successful.
- **Career Exploration:** Process of learning about yourself and the world of work and developing effective strategies to realize your goals.
- **Career Paths and Career Clusters:** Six career paths branch into 16 career clusters to provide a progressive framework to organize the world of work and career information. The framework provides the structure to assist students in understanding the world of work, and to organize course and co-curricular offerings in the school.
- **Career Pathways:** The 16 career clusters diverge into 78 career pathways.
- **Career Planning:** On-going processes that can help you manage your learning and career development.
- **School Counseling Grade Level Expectations (GLEs):** The systematic, sequential and developmentally appropriate set of knowledge, skill and understanding for the K-12 school counseling curriculum.
- **Individual Student Planning:** The process of on-going educational and career-planning services that helps all students develop personal plans of study organized around programs of study and their personal, career, and educational goals.
- **Life Career Development:** Self-development over the life span through the integration of roles, settings, and events of a person's life.

- **Missouri Career Education:** A collection of resources provided on the Missouri Department of Elementary and Secondary Education website. <http://dese.mo.gov/college-career-readiness>
- **Missouri Connections:** A free web-based career and educational planning resource to help Missouri citizens determine their career interests, explore occupations, establish education plans, develop job search strategies, and create résumés.
- **Individual Career and Academic Plan (ICAP):** A student's scope and sequence of coursework and related activities based upon their chosen Career Path or Career Cluster and their educational goals. Initiated in the eighth grade, it is designed to insure a successful post-secondary transition. The key component of the Individual Student Planning Process.

QUESTIONS AND ANSWERS ABOUT CAREER CLUSTERS

What steps are involved in choosing a career?

- Identify your interests, abilities, and talents.
- Consider the possible career in each cluster in relationship to those interests, abilities and talents.
- Decide which career seems to fit you the best.
- Select courses that are related to the career you've chosen

How can parents and other interested adults help?

- Help students identify interests, abilities, and talents by discussing strengths with them.
- Share information about careers and work experiences.
- Arrange for students to talk with people about careers that are of interest.

What if a student changes his or her mind?

- A career choice is not a permanent commitment.
- As students have new experiences, they will learn new things about themselves and may change career paths.
- If a student decides on a new career path, he or she can discuss it with a counselor and adjust future course selections accordingly.

Individual Career and Academic Plan (ICAP) Raytown School District

Name: _____

Graduation Year: _____

Select a Career Path Select: _____ Career Cluster Select: _____ Program of Study (Pathway) _____		Grade	Requirements/Credits	Credits	1st Semester	2nd Semester	Review Each Semester
Additional Postsecondary Preparation <input type="checkbox"/> A+ Program <input type="checkbox"/> Career and Technical Ed Certificate <input type="checkbox"/> Industry Recognized Credential <input type="checkbox"/> Missouri Seal of Biliteracy <input type="checkbox"/> NCAA <input type="checkbox"/> Technical Skill Attainment Other: _____		9	English Language Arts	1			9th Grade Review Dates: _____ Student's Signature(s): _____ Parents/Guardians' Signatures(s): _____ Advisor's Signature(s): _____
			Social Studies	1			
			Mathematics	1			
			Science	1			
			Health	1/4			
Postsecondary Goals: _____ _____ _____ Postsecondary Options: Directly to workforce <input type="checkbox"/> Military <input type="checkbox"/> Tech School/Area Career Center <input type="checkbox"/> Vocational Training (Apprenticeship) <input type="checkbox"/> 2 year College <input type="checkbox"/> Transfer to 4 year college <input type="checkbox"/> 4 year College or University Other: _____		10	Electives or Fine/Practical Art Requirements	1/4			
			P.E.	1/4			
			Art Requirements	2			
			English Language Arts	1			
			Social Studies	1			
Postsecondary Goals: _____ _____ _____ Postsecondary Options: Directly to workforce <input type="checkbox"/> Military <input type="checkbox"/> Tech School/Area Career Center <input type="checkbox"/> Vocational Training (Apprenticeship) <input type="checkbox"/> 2 year College <input type="checkbox"/> Transfer to 4 year college <input type="checkbox"/> 4 year College or University Other: _____		11	Mathematics	1			10th Grade Review Dates: _____ Student's Signature(s): _____ Parents/Guardians' Signatures(s): _____ Advisor's Signature(s): _____
			Science	1			
			Personal Finance*	1/4			
			Fine/Practical Art	1			
			P.E.	1/4			
Postsecondary Goals: _____ _____ _____ Postsecondary Options: Directly to workforce <input type="checkbox"/> Military <input type="checkbox"/> Tech School/Area Career Center <input type="checkbox"/> Vocational Training (Apprenticeship) <input type="checkbox"/> 2 year College <input type="checkbox"/> Transfer to 4 year college <input type="checkbox"/> 4 year College or University Other: _____		12	Electives	3			11th Grade Review Dates: _____ Student's Signature(s): _____ Parents/Guardians' Signatures(s): _____ Advisor's Signature(s): _____
			English Language Arts	1			
			Social Studies	1			
			Mathematics	1			
			Science	1			
Postsecondary Goals: _____ _____ _____ Postsecondary Options: Directly to workforce <input type="checkbox"/> Military <input type="checkbox"/> Tech School/Area Career Center <input type="checkbox"/> Vocational Training (Apprenticeship) <input type="checkbox"/> 2 year College <input type="checkbox"/> Transfer to 4 year college <input type="checkbox"/> 4 year College or University Other: _____		12	Electives	4			12th Grade Review Dates: _____ Student's Signature(s): _____ Parents/Guardians' Signatures(s): _____ Advisor's Signature(s): _____
			English Language Arts	1			
			Electives	7			
			English Language Arts	1			
			Electives	7			

*the grade level at which Personal Finance may be offered is an individual school district decision

revised 01/2019

Career and Technical Education Certificate Requirements

Name: _____

Graduation Year: _____

The student must meet all the requirements as follows:

☐ All Graduation Requirements

☐ CTE Concentrator, three or more credits in sequence in a department-approved career education program defined on the students ICAP, with Grade Point Average in the CTE area of concentration - 3.0 on a 4.0 scale

☐ TSA/IRC

Name of Assessment: _____

Pass/Fail: _____

Date: _____

☐ Soft Skills/Business Skills Attainment (1 of 3 options)

☐ CTSO active participation in junior or senior year

☐ Letters of Recommendation

☐ Soft Skills/Ethics Assessment

☐ College and Career Readiness Measure

☐ ACT: _____

☐ ACT WorkKeys: _____

☐ ASVAB: _____

☐ SAT: _____

☐ 50 hours of work-based learning (Registered Apprenticeships, Cooperative Career Education Programs, internships, clinical settings, job shadowing, entrepreneurial experiences, school-based enterprises, structured business/industry field trips, service learning, or other opportunities that provide real-time, authentic work experiences)

☐ 95% attendance or greater for grades 9-12

For more information on the CTE Certificate Criteria visit:

<https://dese.mo.gov/media/pdf/cte-certificate-criteria>

For more information:

- <https://dese.mo.gov/sites/default/files/cte-certificate-criteria.pdf>
- FAQ: <https://dese.mo.gov/sites/default/files/cte-certificate-frequently-asked-questions.pdf>
- TSA/IRC Information:
<https://dese.mo.gov/college-career-readiness/career-education/technical-skills-attainment-industry-recognized-credential>