

RUSKIN HIGH SCHOOL



CAREER & EDUCATIONAL PLANNING GUIDE

2022-2023

GRADES 9-12



"Providing a Foundation for a Proudly Diverse and Historic Community"



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The Career and Educational Planning Guide has been developed for the students and parents in the Hickman Mills School District to present important information about programs and courses offered at the high school campuses. Students and parents should be able to combine the information in the guidebook with advice received from teachers, counselors, and administrators in order to make decisions about courses that will provide students with the education they need for their future plans. Students and parents are encouraged to keep this guidebook as a handy reference to use throughout the school year. The guidebook may be viewed on the district web site.

A four-year personal plan of study is required for each high school student. We strongly encourage parents to work with their students to develop the four-year personal plan of study as it will guide them toward their post-graduation and career goals. It is important to select courses very carefully to fulfill that plan. Although this guidebook has fairly definitive explanations of each course approved for offering in the Hickman Mills school district, questions often arise about course content or graduation requirements. Please address those questions to the high school counselors and principals.

Faculty and staff are excited about the opportunities available for your son or daughter in the Hickman Mills school district. Please continue to support your teenager through this very important experience.

HMC-1 Mission Statement

The mission of the Hickman Mills C-1 School District, a proudly diverse and historic community, is to provide a foundation for our students that maximizes academic success and fosters civic engagement, as distinguished by:

- Highly effective teaching focused on rigor and individual student needs
- Building strong family, community and school partnerships
- Collaborative and data-driven decision making
- The integration of technology across the curriculum and the district
- Commitment to early childhood and ongoing college and/or career preparation

Ruskin High School

Vision

At Ruskin High School, we *engage* for today, *educate* for tomorrow and *empower* for the future.

Mission Statement


The mission of RHS is to provide a foundation for our students that maximizes academic success and fosters positive community impact, as accomplished by:

- Ensuring our students come first in the educational process
- Effective teaching and learning
- Providing diverse academic pathways
- Creating real world learning experiences
- Building strong family and community partnerships

Core Values

1. We are committed to academic excellence
2. We use reflective practices
3. We ensure equity and inclusion for all students
4. We foster a positive culture & climate
5. We are mission focused

HICKMAN MILLS C-1 GRADUATION REQUIREMENTS

	Units of Credit
Communication Arts	4.0
Mathematics	3.0
Science	3.0
Social Studies	3.0
Speech and Theatre Arts	0.5
Fine Arts	1.0
Practical Arts/Personal Finance	1.0
Physical Education	1.0
Health	0.5
Electives	8.0
Total	25.0

Note:

- *In addition to meeting state and district graduation requirements, graduates are required to have participated in the Missouri Department of Elementary and Secondary Education's End of Course (EOC) exams in the subject areas of: Algebra I, Algebra II (if taken Algebra I prior to 9th grade), English II, Biology, and Government. Students must also pass U.S. and State Constitution exams. Beginning with the Class of 2021, all students must also take an exam on American Civics.*

Hickman Mills C-1 School District is committed to 100% of graduates earning a Market Value Asset (MVA). Market Value Assets are categorized as:

- Work Experiences (Internships or Client Projects)
- 9 College Credit Hours
- Industry Recognized Credential
- Entrepreneurial Experiences

All graduates will also be required to participate in post-secondary assessments including ACT, Workkeys, ASVAB, Accuplacer, or an Industry Recognized Credentialing exam.

SPECIFIC COURSE REQUIREMENTS FOR GRADUATION BY DEPARTMENTS

<u>COMMUNICATION ARTS</u>	<u>4.0</u>
Communication Arts 1 <u>OR</u> Honors Communication Arts 1	1.0
Communication Arts 2 <u>OR</u> Honors Communication Arts 2	1.0
Communication Arts 3 <u>OR</u> AP Language	1.0
Communication Arts 4 <u>OR</u> English 110 <u>OR</u> AP Literature	1.0
<i>**ESL & READING CREDITS MAY ALSO COUNT TOWARDS COMMUNICATION ARTS REQUIRED CREDITS</i>	
<u>MATHEMATICS</u>	<u>3.0</u>
Algebra I <u>OR</u> Honors Algebra I	1.0
Geometry <u>OR</u> Honors Geometry	1.0
Math Elective: Algebra II, Accelerated Algebra II, or any Math elective, including Math Lab)	1.0
<u>SCIENCE</u>	<u>3.0</u>
Physical Science <u>OR</u> Honors Physical Science	1.0
Applications of Bio/Chem <u>OR</u> Chemistry 1 <u>OR</u> Environmental Science	1.0
Biology <u>OR</u> Honors Biology	1.0
<i>**Students who transfer in having taken Biology as a 9th grader should take Chemistry + 1 other Science elective. Taking Physical Science is not required.</i>	
<u>SOCIAL STUDIES</u>	<u>3.0</u>
Modern World History <u>OR</u> AP Modern World History	1.0
American History <u>OR</u> AP American History <u>OR</u> American History 101/102	1.0
American Government <u>OR</u> AP American Government <u>OR</u> American Govt. 210	1.0
<u>SPEECH</u>	<u>0.5</u>
Oral Communications OR Fundamentals of Speech	0.5
<i>**Advanced level Debate and/or Competitive Drama may be considered for waiver of Speech credit.</i>	
<u>FINE ARTS</u>	<u>1.0</u>
Fine Arts credit is to be earned in the fields of art, music, or drama.	1.0
<u>PHYSICAL EDUCATION</u>	<u>1.0</u>
Physical Education Electives	1.0
<i>**ROTC may be substituted for 1.0 PE credits.</i>	
<u>HEALTH</u>	<u>0.5</u>
Health	0.5
<u>PRACTICAL ARTS</u>	<u>1.0</u>
Personal Finance	0.5
Practical Arts credit	0.5
<u>ELECTIVES</u>	<u>8.0</u>
TOTAL	25.0

ADMISSIONS REQUIREMENTS FOR POST HIGH SCHOOL

Type of Credit	University of Missouri System	4 Year Colleges	Technical College, Workforce, Military
English Language Arts	4	4	High School Diploma
Mathematics	4 (Alg 1 and Higher)	4 (Alg 1 and Higher)	
Science	3 (2 of 3 from Bio, Chem, Physics, and Earth Science)	3 (No General Science, 1 must be a lab class)	
Social Studies	3	3	
Fine Art	1	1	
Practical Art	0	0	
Physical Education	0	0	
Electives	5	6	
Additional Electives	2 (2 Years of same Foreign Language)	3 (Foreign Language and/or core classes)	
Assessment Requirements	ACT	ACT	WorkKeys, Accuplacer, or ASVAB

GENERAL SCHOOL POLICIES

1. Students will be classified as follows:

2022-2023

Sophomore....6 credits

Junior12 credits

Senior18 credits

Students will be classified according to credits earned at the beginning of the year. Students who do not earn more than the minimum credits required for their grade classification should earn credit by approved summer school, correspondence courses, Virtual Learning, or alternative district programming in order to be able to meet graduation requirements in 4 years.

2. A standard 4.0 grading scale and weighted 4.0 grading scale is used by all teachers:

Grade Percent

A 100-95

A- 94-90

B+ 89-87

B 86-83

B- 82-80

C+ 79-77

C 76-73

C- 72-70

D+ 69-67

D 66-63

D- 62-60

F 59-00

3. Weighted Grade Point Classes

Due to the difficulty of some classes, grades earned from selected classes are given more “weight” in determining grade point averages (GPA). All Advanced Placement (AP) and Dual Credit/Dual Enrollment courses are offered for weighted credit.

4. Grade Reports

Students are provided quarterly grade reports, with the report reflecting the cumulative grade in each class. The semester grade will be recorded on the student’s transcript and will be figured into the cumulative grade point average. A ranking of students will be done at the end of each year, with seniors receiving a 7th semester, mid-year ranking.

5. MSHSAA Requirements

Students must pass 7 of 8 classes and earn 3.5 credits in the previous semester to participate in any extra-curricular activity, according to MSHSAA (Missouri State High School Activities Association) guidelines

6. Schedule Change Policy

Students must carefully consider all classes (including substitute selections) in which they pre-enroll and are expected to remain in those courses selected. **STUDENTS REQUESTING A SCHEDULE CHANGE AT THE BEGINNING OR END OF EACH SEMESTER MUST DO SO BY COMPLETING THE NECESSARY PAPERWORK PROVIDED BY HIS/HER COUNSELOR DURING THE DESIGNATED TIME PERIOD (Not to exceed a two (2) week period).**

7. Attendance/Enrollment Policy

Students who enroll after the last Wednesday in September (for first semester) or the last Wednesday in January (for second semester) who have not yet been enrolled in school in the current year may not receive credit for traditional face-to-face courses. Students may enroll in PLATO coursework in order to recover credit until the end of the semester, or may seek placement at Burke Academy, the district’s alternative placement program. Students will audit all other courses.

8. Partial Day Enrollment

All students must enroll in a full schedule. Seniors wishing to enroll in a partial day schedule will only be allowed to do so in case of hardship, other special circumstances, or documented verification of full time employment or college enrollment.

9. Graduation Policy

To graduate, students must have attended at least 6 semesters, earned the required credits, and the specific course requirements. Students who complete graduation requirements in less than the typical 8 semesters and want to seek early graduation must contact their counselor to initiate approval. Only those seniors who have met all of the required credits will be allowed to participate in graduation ceremonies.

ADVANCED PLACEMENT AND COLLEGE CREDIT COURSES

Advanced Placement

Advanced Placement (AP) is a program in the United States and Canada, created by the College Board, which offers college-level curricula and examinations to high school students. American colleges and universities often grant placement and *course* credit to students who obtain high scores on the examinations. Each AP course has a corresponding exam that participating schools worldwide administer in May. AP Exams represent the culmination of AP course curriculum and are thus an integral part of the program. All students performing at level 3 (Qualified) or above on the AP Exam will be candidates for earning college credit to be granted to incoming students by the college or university.

Advanced Placement Courses

Course Name	Course Code
AP Language & Composition	CA1101
AP Literature & Composition	CA1201
AP Calculus	MA1203
AP Calculus BC	MA1210
AP Statistics	MA1206
AP Biology	SC1101
AP Physics	SC1106
AP Chemistry	SC1102
AP Ancient World History	SS0904
AP Modern World History	SS1112
AP American Government	SS1114
AP American History	SS1110
AP Psychology	SS1215
AP Environmental Science	SC1118
AP Art and Design	AR1106

Advanced Placement courses are offered pending teacher certification. Students who enroll in AP courses may participate in AP exams at the conclusion of the course. Students who receive a passing score on the AP exam may request college credit be awarded by the post-secondary institution they elect to attend.

Dual Credit

Hickman Mills C-1 partners with UMKC, Park, Avila, and Metropolitan Community Colleges to offer college credit courses within the high school setting. These courses are also used to satisfy high school graduation requirements. All students are eligible to enroll in a dual credit course; however, in order to apply for and receive college credit, the student must have a cumulative GPA of at least a 3.0 OR have a composite ACT score of 21 or above. Students who participate in such courses may earn from 3-5 college credit hours per course in addition to high school credit. *Note: Availability of courses is subject to teacher certification and scheduling.*

Dual Credit Courses

Course Name	Course Code
English 110/204	CA1202A/CA1202B
College Algebra	MA1205
Calculus	MA 1204
Pre-Calculus	MA1101
Physics	SC1104
Biology 101 General Biology	SC1110
Chemistry 101 Survey of Chemistry	SC1113
American History 101/102	SS1104/SS1105
Western Civilization 201/202	SS1108/SS1109
Intro to Comparative Politics	SS1212
American Government 210	SS1213
History of Warfare	SS1214
Fundamentals of Speech	ST1105
Teaching Methods	CE1401
Spanish 3/110	FL1004
Spanish 4/120	FL1105
Cerner Tech Pathways	ND1108
Pathways to Graphic Design	AR1107
SKC Fire Academy	PA1202
What's Race Got To Do With It?	SS1218
MCC Early College Academy	ND1114
Fundamentals of Fine Arts Theatre	THE130

Dual Enrollment

Dual enrollment is an opportunity for students to be enrolled in a partial day schedule at their home high school while completing the rest of their day on a college campus. Ruskin High School is proud to offer this opportunity through our partnership with Metropolitan Community Colleges, UMKC, and Avila. Interested students should seek additional information from their counselor.

A+ SCHOOLS PROGRAM

Ruskin High School has joined other schools in the state receiving the A+ designation. A+ is a high school reform model with a student incentive component. The goals of the A+ program are as follows:

- All students will graduate from high school.
- All students will complete high school studies that are challenging and have identified expectations.
- All students will proceed from high school graduation to college, post secondary vocational or technical school, or high wage job with opportunities for workplace skill development.

A+ FINANCIAL BENEFITS

Students who sign an A+ agreement and meet the A+ program requirements are eligible to receive up to two years of tuition and fees at any community college or accredited vocational/technical institution in Missouri.

NOTE: A+ tuition reimbursement is dependent upon the availability and appropriation of funds by the Missouri General Assembly.

A+ REQUIREMENTS

To be eligible for the tuition reimbursement benefit, students must:

Attend an A+ school for three consecutive years (ending with graduation).

Sign an A+ agreement prior to high school graduation

Graduate with a minimum cumulative (un-weighted) Grade Point Average of 2.5 (4.0 scale).

Graduate with a minimum attendance rate of not less than 95%. *

Perform a minimum total of 50 hours of unpaid tutoring or mentoring.

Maintain a record of good citizenship at school and in the community.

Abstain from the use of illegal drugs, including alcohol.

Register with the selective service (if required by law).

Complete and submit the FAFSA during spring of the 12th grade year.

Beginning with the graduating class of 2015, have achieved a score of proficient or advanced on the Algebra I EOC exam (or other qualifying exam score as determined by the Missouri Department of Higher Education (MDHE))

*With the exception of field trips, all absences (excused and unexcused) count against a participant's attendance percentage.

MAINTAINING THE A+ TUITION REIMBURSEMENT BENEFIT

The student financial incentive will be available for a period of four years after high school graduation. To maintain eligibility during that time, each participating student must enroll and attend a Missouri public community college or vocational/technical school on a full-time basis and maintain a GPA of 2.5 or higher.

OFF CAMPUS PROGRAMS

Students at Ruskin High School have the ability to apply and participate in several off campus programs during their junior and/or senior year. The following table provides a highlight of the course pathway offerings for each program. Detailed course descriptions can be found on page 45.

Herndon Career Center	Summit Technology Academy	MCC – Business & Technology	Career Academies	Southland CAPS	Center	MCC - Longview
Advertising Art & Graphic Design	Digital Electronics	Engineering Technology	Health Start (Certified Nursing Assistant, Central Services Processing and Pharmacy Technician)	Animal Health Science	SKC Fire Academy	SKC Early College Academy
Automotive Collision	Computer Integrated Manufacturing	Industrial Technology	Pathways to Technology	Technology Solutions		
Automotive Technology	Aerospace Engineering		Business & Finance Institute (BFI)	Education Exploration		
Industrial Engineering	Network Engineering		Pathways to Graphic Design	Environmental Planning & Awareness		
Construction Technology	Cyber Security					
Cosmetology	Computer Software Development					
Culinary Arts	Digital Media Technology					
Diesel Mechanics	Medical Interventions					
Early Childhood Professional	Professional Nursing					
Foundations of Nursing	Teacher Educator Academy					
Law Enforcement/Police Science/EMT	Pre-Allied Health					
Welding/Metal Fabrication	Summit International Studies					
Physical Training	Executive Finance and Fintech					
	Hospitality & Tourism Management					
	Missouri Innovations Campus***					

****The Missouri Innovations Campus program is offered through Summit Technology Academy and is an early college partnership with the University of Central Missouri.*

ACT

The ACT contains multiple-choice tests in four areas along with optional ACT Plus Writing. The four main test areas are: English, Mathematics, Reading, and Science. Each of these tests contains questions that offer either four or five answer choices from which you are to choose the correct or best answer. Plan to test during the second half of your junior year and/or early in your senior year. Check the application deadlines of the colleges you are considering and plan ahead.

Ruskin High School is an ACT Testing Site and tests are given 5 times per year on Saturdays. Two ACT fee waivers are available for students who receive free or reduced lunch. Students are responsible for mailing in their registration forms and/or registering online or are encouraged to work with our College Advisor to get signed up. The easiest way to register is at www.actstudent.org. See your counselor for more information.

END OF COURSE (EOC) EXAMS

The Missouri Department of Elementary and Secondary Education has identified the following purposes for end-of-course assessments: measuring student achievement and progress toward postsecondary readiness, identifying students' strengths and weaknesses, communicating expectations for all students, meeting state and national accountability requirements, and evaluating programs. End-of-course assessments are given in Algebra I, Algebra II, English II, Biology, and Government.

SEMESTER FINAL EXAMS

Students are required to take semester examinations. If a student is going to be absent on the day of a final exam, the student is responsible for making arrangements with the teacher to makeup the final exam. Final exams are included as a part of the student's cumulative semester grade.

SMALL LEARNING COMMUNITIES (SLC's)

Hickman Mills C-1 School District utilizes Small Learning Communities (SLC's) to enrich our students' secondary experiences through personalized relationships and relevant learning experiences tied to post-secondary interests. Students in grades 9-12 select to participate in one of *four* small learning communities: **Arts & Communication, Business & Finance, Engineering & Technology, and Health & Human Services**. Small learning communities (SLCs) provide teachers the opportunity to collaborate across subject areas, increasing rigor and relevance of curricula. In addition, SLC's facilitate strong relationships among students, staff, and teachers. While SLC's will provide students with the academic background to pursue any college or career path, each house is focused on specific career clusters.

Career Clusters provide a progressive framework to organize the world of work and career information. Missouri uses 16 Career Clusters as a way of organizing occupations and careers to assist educators in tailoring rigorous coursework and related activities for all students. Instruction and other learning experiences organized by Career Clusters offer students core academics and other activities that match student skills and interests. Career clusters are beneficial in helping students develop personal plans of study (PPOS) to facilitate the planning of educational and career goals. A personal plan of study is a student-specific and customized scope and sequence of coursework that includes high school graduation requirements, applicable coursework for the students' educational and career goals, and developmentally-appropriate, work-based learning experiences. The Personal Plan of Study includes graduation requirements as well as electives related to a student's chosen career cluster. Ruskin High School graduation requirements are found on page 5.

Small Learning Community Pathway Electives

The following is meant to be a guide for students and parents in selecting electives within each of the four Small Learning Communities pathways to aid in the four-year planning process. All students are required to take ONE course within their SLC each semester; however, may take additional courses outside of their SLC.

Arts & Communication House <i>Performing Artists, Visual Artists, Telecommunications, Journalism & Broadcasting</i>				
Pathway	Grade 9	Grade 10	Grade 11	Grade 12
Visual Arts Pathway	<ul style="list-style-type: none"> Oral Communications Art Foundations Art Appreciation 	<ul style="list-style-type: none"> 2D Design 3D Design Graphic Design I 	<ul style="list-style-type: none"> 2D Design II 3D Design II Graphic Design II Ceramics AP Art & Design Pathways to Design 	<ul style="list-style-type: none"> AP Art & Design Ceramics Pathways to Design
Theatre Arts Pathway	<ul style="list-style-type: none"> Oral Communications Competitive Drama Drama I 	<ul style="list-style-type: none"> Repertory Theatre I Competitive Drama II Stagecraft 	<ul style="list-style-type: none"> Adv Repertory Theatre Competitive Drama III Stagecraft Musical Theatre 	<ul style="list-style-type: none"> Theatre Practicum Competitive Drama IV Stagecraft Advanced Musical Theatre
Music Pathway	<ul style="list-style-type: none"> Oral Communications Band/Orchestra Freshman Choir, Mixed Choir, Chamber Choir 	<ul style="list-style-type: none"> Band/Orchestra Mixed or Adv Choir Music Theory 	<ul style="list-style-type: none"> Band/Orchestra Mixed or Adv Choir Music Theory Musical Theatre 	<ul style="list-style-type: none"> Band/Orchestra Mixed or Adv Choir Music Theory Advanced Musical Theatre
Communications Pathway	<ul style="list-style-type: none"> Oral Communications Creative Writing Journalism I Spanish I 	<ul style="list-style-type: none"> Journalism II Debate I Spanish II Social Justice/What's Race Got To Do With It? 	<ul style="list-style-type: none"> Journalism III Debate II Fundamentals of Speaking & Listening Spanish III CORE 	<ul style="list-style-type: none"> Journalism IV Debate III Spanish IV CORE
<i>AC House students are eligible to participate in Real World Learning experiences such as:</i> <ul style="list-style-type: none"> UMKC Bridges College Prep Program - opportunities for lessons, mentoring, and certificates in Acting, Dance, Piano, Voice Performing Arts Academy - opportunities for students to earn dual credit, work with industry mentors, and produce a community performance 				

Business & Finance House

Business Management, Entrepreneurship, Finance, Insurance, Computer Technology, Marketing, Human Resources, Fashion Merchandising, Sales

Pathway	Grade 9	Grade 10	Grade 11	Grade 12
Entrepreneurship/Management <i>This pathway prepares students for the ASK Certification and the Entrepreneurship/Management Certification.</i>	<ul style="list-style-type: none"> Computer Applications/Advanced Computer Applications Introduction to Business 	<ul style="list-style-type: none"> Accounting I Entrepreneurship Intro to Web Design Advanced Web Design Personal Finance 	<ul style="list-style-type: none"> Intro to Web Design Advanced Web Design Entrepreneurship Business Law Accounting I/II Cerner Tech Pathway Personal Finance CORE 	<ul style="list-style-type: none"> Accounting I/II Entrepreneurship Business Law Personal Finance CORE
Marketing & Promotion <i>This pathway prepares students for the Marketing Concepts & Adobe Certification.</i>	<ul style="list-style-type: none"> Computer Applications/Advanced Computer Applications Introduction to Business 	<ul style="list-style-type: none"> Apparel, Textiles, and Fashion Marketing I Entrepreneurship Graphic Design I/II Personal Finance 	<ul style="list-style-type: none"> Apparel, Textiles, and Fashion Marketing II Entrepreneurship Business Law Sports & Entertainment Marketing Advertising Pathways to Design Personal Finance 	<ul style="list-style-type: none"> Marketing Internship Sports & Entertainment Marketing Advertising Pathways to Design Personal Finance
Technology for Business Leaders <i>This pathway prepares students for the MOS, Google Suite, and Business Concepts Certification.</i>	<ul style="list-style-type: none"> Computer Applications/Advanced Computer Applications Introduction to Business Computer Science Essentials 	<ul style="list-style-type: none"> Business Technology I Accounting I Intro to Web Design Advanced Web Design Personal Finance 	<ul style="list-style-type: none"> Business Law Accounting II Advanced Web Design Business Tech II Cerner Tech Pathway Personal Finance 	<ul style="list-style-type: none"> Business Tech II Supervised Business Experience Advanced Web Design Personal Finance

****All students grades 9-12 are invited to apply for and participate in the **Business & Finance Institute (BFI)** which is a collaborative partnership between Hickman Mills C-1 School District, Prep-KC, UMKC, MCC-Longview, and numerous business partners. **This academy prepares students for a career in Kansas City's robust financial services sector.****

****All students grades 9-12 are invited to apply for and participate in the **Cerner Tech Start Pathway** which is a collaborative partnership between Hickman Mills C-1 School District, Prep-KC, and Cerner. **This academy prepares students for a career in technology information systems.****

Engineering & Technology House

Engineering, Science, Technology, Architecture, Programming, Computer Science, Transportation, Logistics, Design, Operations, Industrial Technology

Pathway	Grade 9	Grade 10	Grade 11	Grade 12
Engineering Pathway	<ul style="list-style-type: none"> • Introduction to Engineering & Design 	<ul style="list-style-type: none"> • Principles of Engineering • Robotics 	<ul style="list-style-type: none"> • Civil Architecture • Digital Electronics • MCC-BTC 	<ul style="list-style-type: none"> • Engineering Design & Development • Physics • Summit Tech or Herndon • MCC-BTC
Technical Pathway	<ul style="list-style-type: none"> • Computer Science Essentials • Computer Applications/Advanced Computer Applications 	<ul style="list-style-type: none"> • Computer Science Principles • Robotics 	<ul style="list-style-type: none"> • Computer Science Applications • Cybersecurity • MCC-BTC • Cerner Tech Pathway 	<ul style="list-style-type: none"> • Summit Tech or Herndon • Cerner Tech Pathway • MCC-BTC
Skilled Trades	<ul style="list-style-type: none"> • Skilled Trades I 	<ul style="list-style-type: none"> • Skilled Trades II 	<ul style="list-style-type: none"> • Herndon Career Center 	<ul style="list-style-type: none"> • Herndon Career Center

****All students grades 9-12 are invited to apply for and participate in the *Cerner Tech Start Pathway* which is a collaborative partnership between Hickman Mills C-1 School District, Prep-KC, and Cerner. This academy prepares students for a career in technology information systems.**

****Students in grades 11-12 are invited to participate in the Metropolitan Community Colleges Business & Technology Campus' Early College Engineering Program. This program allows students to earn dual credit and high school credit.**

Health & Human Services House

Law Enforcement, Law, Hospitality, Tourism, Culinary Arts, Health/Medicine, Animal Science, Fire, Education, Child Development, Psychology

Pathway	Grade 9	Grade 10	Grade 11	Grade 12
Pre-Law & Law Enforcement	<ul style="list-style-type: none"> Intro to Competitive Drama & Debate 	<ul style="list-style-type: none"> Debate I Psychology or Sociology Social Justice/What's Race Got To Do With It? 	<ul style="list-style-type: none"> Debate II Criminal Justice Business Law 	<ul style="list-style-type: none"> Debate III Behavior Science/Ethics Herndon Career Center, Summit Tech, or Manuel Tech Center
Culinary Arts/Hospitality/Tourism	<ul style="list-style-type: none"> Nutrition & Wellness Individual & Family Health Discovering FACS 	<ul style="list-style-type: none"> International Foods Discovering FACS Nutrition & Wellness Food Science 	<ul style="list-style-type: none"> Apparel, Textiles & Fashion Pro-Start I 	<ul style="list-style-type: none"> Adv. Apparel, Textiles, & Fashion Herndon Career Center
Medical Sciences	<ul style="list-style-type: none"> PLTW Principles of Biomedical Science Health Start Academy 	<ul style="list-style-type: none"> PLTW Human Body Systems Medical Terminology Nutrition & Wellness Health Start Academy 	<ul style="list-style-type: none"> PLTW Medical Interventions Anatomy & Physiology Psychology or Sociology Behavioral Science/Ethics Southland CAPS – Animal Health Health Start Academy Zoology 	<ul style="list-style-type: none"> Herndon Career Center or Summit Tech Southland CAPS – Animal Health Health Science Academy Zoology PLTW Biomedical Innovations
<p><i>Students interested in Medical Sciences are invited to apply for and participate in the Health Start Academy which is a collaborative partnership between Hickman Mills C-1 School District, Prep-KC, UMKC, and MCC. Students can earn their certification as a Certified Nursing Assistant (CNA), Central Services Processing, or Pharmacy Technician.</i></p>				
Education and Child Development	<ul style="list-style-type: none"> Individual and Family Health Discovering FACS 	<ul style="list-style-type: none"> Sociology Child Development I Social Justice/What's Race Got To Do With It? 	<ul style="list-style-type: none"> Introduction to Teaching Child Development II Psychology Southland CAPS – Education Training 	<ul style="list-style-type: none"> Herndon Career Center or Summit Tech Avila Teaching Methods Cadet Teaching Behavior Science/Ethics



COMMUNICATION ARTS DEPARTMENT

The Communication Arts courses are designed to provide you with a balanced English/Communications program. Colleges require four credits of English for admission, and your communication skills (reading, listening, speaking, and writing) will definitely be a factor in your success whether you continue your formal education or enter the work force immediately after graduation. Honors/Advanced courses are for those students who choose a more rigorous pathway.

Grade	Course Number	Course Offerings	Credit	Course Type
9	CA0900	Communication Arts 1	1.0	Required
9	CA0901	Honors Communication Arts I	1.0	Advanced (<i>May Replace CA0900</i>)
9-12	CA0903	Journalism I (Intro to Journalism)	1.0	Elective
9-12	CA1041	Film & Literature	0.5	Elective
9-12	CA1042	Horror, Mystery, and Science Fiction	0.5	Elective
10	CA1000	Communication Arts 2	1.0	Required
10	CA1001	Honors Communication Arts 2	1.0	Advanced (<i>May Replace CA1000</i>)
11-12	CA1103	Journalism II	1.0	Advanced
11	CA1100	Communication Arts 3	1.0	Required
11	CA1101	AP Language	1.0	Advanced (<i>May Replace CA1100</i>) – Weighted 1.0
10-12	CA1102	Creative Writing	0.5	Advanced
11-12	CA1203	Journalism III	1.0	Elective
12	CA1204	Journalism IV	1.0	Elective
12	CA1200	Communication Arts 4: College Prep	1.0	Required
12	CA1201	AP Literature	1.0	Advanced (<i>May Replace CA1200</i>) – Weighted 1.0
12	CA1202	English 110/204	1.0	Advanced (<i>May Replace CA1200</i>) – Weighted 1.0

Communication Arts Course Flow Chart

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Communication Arts 1	Communication Arts 2	Communication Arts 3	Communication Arts 4:
Communication Arts 1H	Communication Arts 2H	AP Language	College Prep
Journalism I	Journalism II	Journalism III	AP Literature
			English 110
			Journalism IV

COMMUNICATION ARTS 1: CA0900 1 Credit 9

Freshman English, required for graduation, is the entry-level language arts course for the high school. Through a variety of culturally diverse reading selections, students will enhance their critical thinking skills and expand their vocabulary. Students will use all stages of the writing process to develop their editing skills and produce finished pieces of writing. Students will practice effective listening and speaking skills.

HONORS COMMUNICATION ARTS 1: CA0901 1 Credit 9

Through a variety of culturally diverse reading selections, students will enhance their critical thinking skills and expand their vocabulary. Students will use all stages of the writing process to develop their editing skills and produce finished pieces of writing. Students will practice effective listening and speaking skills. **This course is designed for**

students who have demonstrated a capacity to excel in writing, reading, and critical thinking.

COMMUNICATION ARTS 2: CA1000 1 Credit 10

Students will continue their study of language arts, with an emphasis on a variety of literature and specific literary skills. Students will expand their oral communication skills. Concentrating on the basic skills of literary analysis, they will read various forms of culturally diverse fiction and non-fiction. **PREREQUISITE:** *Communication Arts 1 or taken concurrently*

HONORS COMMUNICATION ARTS 2: CA1001 1 Credit 10

Students will continue their study of language arts, with an emphasis on a variety of literature and specific literary skills.. Concentrating on the basic skills of literacy analysis, they will read various forms of culturally diverse

fiction and non-fiction. **This course is designed for students who have demonstrated a capacity to excel in writing, reading, and critical thinking.**

**JOURNALISM I (INTRO): CA0903
1 Credit 9-12**

This course is designed for the student who is interested in journalism and producing materials for school publications. The course is especially valuable in helping students learn to gather news, organize information, and separate fact from opinion. This course is the prerequisite for Newspaper.

**JOURNALISM II (BEGINNER): CA1103
1 Credit 11-12**

This language arts course is designed to equip students with pre-college and career communication skills. Study will include intermediate levels of reading, composition, speaking, and listening practice in Standard English. Critical thinking skills will be introduced through the writing process and literary analysis. This class is involved in all phases of creating the school newspaper. Articles by students will be eligible for submission to local, state, and national judging. (NOTE: Credit earned in this course is elective credit for graduation.)
PREREQUISITE: *Journalism I*

**COMMUNICATION ARTS 3: CA1100
1 Credit 11**

Communication Arts 3 is designed to equip students with pre-college and career communication skills. This course will emphasize American Literature. Study will include intermediate levels of reading, composition, speaking, and listening practice in Standard English. Critical thinking skills will be introduced through the writing process and literary analysis using a variety of fiction and non-fiction texts. PREREQUISITE: *Communication Arts 2 or taken concurrently*

**AP LANGUAGE: CA1101
1 Credit (WEIGHTED: 1.0) 11-12**

Advanced Placement English Language and Composition meets the third language arts course requirement for graduation. This year-long study will be driven by the grade level expectations and prepares students for college writing, and/or the AP language test. Students will have the opportunity to take the College Board exam at the end of the year, which could result in earning three to six English credits at nationally and internationally accredited colleges and universities. PREREQUISITE: *Communication Arts II, or Honors Communication Arts II*

**CREATIVE WRITING: CA1102
1/2 Credit 10-12**

This course offers students the opportunity to express their creativity through different types of writing including poetry, essays, descriptive paragraphs, short stories, and one-act plays. Students taking this course should have a

strong desire to write and good basic writing skills. This class may be taken only once.

**HORROR, MYSTERY, AND SCIENCE FICTION: CA1042
0.5 Credit 9-12**

A semester-long course where students will read horror, mystery, fantasy, and science fiction short stories and novels. Students will analyze and discuss the distinguishing elements of each genre. The reading list and focus are expected to vary with the interest of the students in the class. Emphasis is on reading for pleasure. Students must compose and tell an original story for the final project.

**FILM & LITERATURE: CA1041
0.5 Credit 9-12**

A semester-long course where students will compare and contrast how movies are adapted from novels. Students will view, discuss, and write about the films versus books using literary analysis. Students will be taught to "read" films with a focus on symbolism, theme, social and historical context, point of view, plot, bias, and character development.

**JOURNALISM III (INTERMEDIATE) CA1203
1 Credit 11-12**

This course is for students who are interested in the production of the school yearbook, who have a recommendation from one of their English teachers, and who are accepted by the faculty advisor. The course teaches students the skills involved in sales and producing a quality yearbook. (NOTE: Credit earned in this course is elective credit for graduation.) PREREQUISITE: *Journalism I & II*. Instructor and/or principal approval

**JOURNALISM IV (ADVANCED) CA1204
1 Credit 11-12**

This course is for students who are interested in the production of the school yearbook, who have a recommendation from one of their English teachers, and who are accepted by the faculty advisor. The course teaches students the skills involved in sales and producing a quality yearbook. (NOTE: Credit earned in this course is elective credit for graduation.) PREREQUISITE: *Journalism I & II*. Instructor and/or principal approval

**COMMUNICATION ARTS IV: CA1200
1 Credit 12**

This course is designed to equip students with the vocabulary, grammar writing, and literacy analysis skills necessary to successfully complete assignments in college. This course will also prepare those students transitioning from high school to all post-secondary areas with technical writing skills, well-developed literacy, communication, and technology skills. Literary and nonfiction selections appropriate to college-bound and career-ready students will be studied with the emphasis on analysis through

composition and real world experience. PREREQUISITE:
Communication Arts 3 or taken concurrently

AP ENGLISH LITERATURE: CA1201

1 Credit (WEIGHTED: 1.0) 12

This course includes the development of reasoning skills disciplined study habits, critical analysis of written text, and essays demonstrating expository, analytical and argumentative writing. Readings will represent a variety of literary genres and periods. Students will have the opportunity to take the College Board exam at the end of the year, which could result in earning three to six English credits at nationally and internationally accredited colleges and universities. PREREQUISITE: *Communication Arts 3 or AP Language & Composition*

ENGLISH 110/204: CA1202A/CA1202B

1 Credit (WEIGHTED: 1.0) 12

This is a high school/college dual credit English writing course, which satisfies the fourth year of high school English and provides three to six hours of college credit through UMKC. Writing as a recursive process is the focus of this course. The college syllabus and textbooks are used and students must pay tuition fees each semester. PREREQUISITE: *Communication Arts 3 or Honors Communication Arts. The UMKC requirement is 3.0 GPA or 22+ on ACT.*



MATHEMATICS DEPARTMENT

Understanding mathematics almost always requires extensive experience solving problems, communicating ideas, and connecting ideas to one another. The mathematics curriculum will provide opportunities for students to have these problem-solving experiences and to also examine explicitly the relationship of mathematics to science and technology.

Grade	Course Number	Course Offerings	Credit	Course Type
9	MA0902	Algebra I	1.0	Required
9	MA0905	Honors Algebra I	1.0	Advanced (Replaces MA0902)
9	MA0904	Math Lab	1.0	Skill Development
9-10	MA1000	Geometry	1.0	Required
9-10	MA0903	Honors Geometry	1.0	Advanced (Replaces MA1000 Geometry)
11	MA1100	Algebra II	1.0	Required
11	MA1103	Accelerated Algebra II	1.0	Advanced (Replaces MA1100 Algebra II)
11-12	MA 1208	College Prep Math	1.0	Elective
11-12	MA1101	Pre-Calculus	1.0	Advanced Elective – Weighted 1.0
11-12	MA1205	College Algebra (Math 110)	1.0	Advanced Elective – Weighted 1.0
11-12	MA1204	Calculus I (Math 210)	1.0	Advanced Elective – Weighted 1.0
11-12	MA1203	AP Calculus AB	1.0	Advanced Elective – Weighted 1.0
12	MA1210	AP Calculus BC	1.0	Advanced Elective – Weighted 1.0
12	MA1206	AP Statistics (STAT 235)	1.0	Advanced Elective – Weighted 1.0
12	MA1207	Practical Math	1.0	Elective

MATH COURSE FLOW CHART

8 th Grade	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Pre-Algebra	Algebra I /Honors	Geometry	Algebra II Accelerated Algebra II	College Prep Math Applied Statistics Pre-Calculus College Algebra Calculus I/AP Calculus AP Statistics Practical Math

ALGEBRA I: **MA0902** **1 Credit** **9**

This is the first formalized course involving continuation of fundamental math. It deals with abstract ideas, use of patterns, generalizations, solving linear, quadratic and rational equations, simplifying radicals, and solving word problems. Students will use manipulatives and graphing calculators to assist with the understanding of abstract concepts.

HONORS ALGEBRA I: **MA0905** **1 Credit** **9**

This is the advanced level Algebra I course. The same topics are covered; however, a greater emphasis on applications is included.

MATH LAB: **MA0904** **1 Credit** *(This may only be used for one elective credit.)* **9**

This course is designed for students who need extra support with the essential performance skills needed to be successful in Algebra I. This course is taken concurrently with Algebra I and focuses on the individual needs of students.

GEOMETRY: **MA1000** **1 Credit** **10**

This course is a combination of plane and solid geometry. Topics include transformations, parallel and perpendicular lines, planes, coordinate geometry, area, volume, trigonometry, functions and formal proof and basic methods of statistics.

PREREQUISITE: *Algebra I*

HONORS GEOMETRY: MA0903
1 Credit 9

Topics include transformations, parallel and perpendicular lines, planes, coordinate geometry, area, volume, trigonometry, functions and formal proof and basic methods of statistics. Applications of geometry will be explored via required projects and geometric constructions.

PREREQUISITE: *B or better in Algebra I*

ALGEBRA II: MA1100
1 Credit 10-12

Algebra II builds on the content from Algebra I and Geometry. Topics will include real and complex numbers, solving equations and inequalities, systems of equations, quadratic equations, graphing functions, rational functions, and conic sections

PREREQUISITE: *Algebra I and Geometry*

ACCELERATED ALGEBRA II MA1103
1 Credit

This course is for advanced Math students who want to take Calculus their senior year. Students will be double blocked first semester of Algebra II and second semester of Pre-Calculus. College credit will be offered for second semester.

COLLEGE PREP MATH: MA1208
1 Credit 11-12

This course is designed to prepare students for college level math courses. Concepts developed will lend to the student's successful integration into classes such as College Algebra or Pre-Calculus. Topics will include: real number concepts, algebra equations, problem solving using linear modeling, polynomial operations, algebraic functions, and systems of equations.

PRE-CALCULUS/MATH 210: MA1101
1 Credit/5 College Credits (WEIGHTED: 1.0) 11-12

This course includes a review of multiple types of relations functions and their transformations, and the laws, properties, and graphs associated with trigonometric functions. Additional topics will include sequences and series, conic sections and their corresponding properties and graphs. College credit may be obtained upon successful completion of this course from the University of Missouri-Kansas City.

PREREQUISITE: *Algebra II*

COLLEGE ALGEBRA (Math 110): MA1205
1 Credit/3 College Credits (WEIGHTED: 1.0) 11-12

This course will be a review of elementary algebra, solutions of equations, exponential and logarithmic functions inequalities, systems of linear equations, equations of second degree and their graphs, binomial theorem, complex numbers and polynomials. College credit may be obtained upon successful completion of this course from the University of Missouri-Kansas City.

PREREQUISITE: *Algebra II*

CALCULUS I (Math 210): MA1204
1 Credit/4 College Credits (WEIGHTED 1.0) 11-12

Topics of study include the review of the Cartesian plane, elementary functions, trigonometry, limits and their properties, techniques and applications of differentiation, techniques and applications of integration. College credit may be obtained from the University of Missouri-Kansas City upon successful completion of this course.

PREREQUISITES: *Pre-Calculus*

AP CALCULUS AB: MA1203
1 Credit (WEIGHTED: 1.0) 12

Topics of study include the review of the Cartesian plane, elementary functions, trigonometry, limits and their properties, techniques and applications of differentiation, techniques and applications of integration, and preparation for the Advanced Placements Test in the spring.

PREREQUISITE: *Pre-Calculus*

AP CALCULUS BC: MA1210
1 Credit (WEIGHTED 1.0) 12

AP Calculus BC is roughly equivalent to both first and second semester college Calculus courses and extends the content learned in AB to different types of equations and introduces the topics of sequences and series. This course covers topics in differential and integral calculus, including concepts and skills of limits, derivatives, integrals, series, and the Fundamental Theorem of Calculus. Students will learn to approach concepts when they are presented graphically, numerically, analytically, and verbally. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.

PREREQUISITE: AP CALCULUS AB OR CALCULUS I

AP STATISTICS/STAT 235: MA1206
1 Credit/3 College Credits (WEIGHTED: 1.0) 12

Students are introduced to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. College-bound students who plan to enter such fields as economics, business, journalism, education, research, psychology, sociology, biology, and medicine benefit from this course. Topics include exploring data, experimental design, probability and simulation, and statistical inference. College credit may be obtained upon successful completion of this course from the University of Missouri-Kansas City.

PREREQUISITE: *Algebra II*

PRACTICAL MATH: MA1207
1 Credit 12

Topics include measurement, ratios, financial literacy, statistics, and basic geometric concepts. Upon completion, students should be able to demonstrate the use of mathematics and technology to solve practical problems and to communicate results.

PREREQUISITE: Teacher approval required. Only open to juniors and seniors with Algebra I, Geometry, and Algebra II grades below a C-.



SCIENCE DEPARTMENT

The purpose of the science curriculum is to provide a framework for the development of scientific literacy. It includes a broad based scientific knowledge that enables students to understand and appreciate the world in which they live. The curriculum is designed to prepare and encourage students to pursue careers in science and engineering. Honors/Advanced courses are for those students who choose a more rigorous pathway.

<u>Grade</u>	<u>Course Number</u>	<u>Course Offerings</u>	<u>Credit</u>	<u>Course Type</u>
9	SC0902	Physical Science	1.0	Required
9	SC0904	Honors Physical Science	1.0	May replace SC0902
10	SC1003	Applications of Biology & Chemistry	1.0	Elective
10	SC1000	Chemistry	1.0	Elective
10	SC1108	Environmental Science	1.0	Elective
11	SC1001	Biology	1.0	Required
11	SC1107	Honors Biology	1.0	Advanced elective (<i>May Replace SC1001</i>)
12	SC1110	Biology 101 General Biology	1.0	Advanced Elective – Weighted 1.0
12	SC1101	AP Biology	1.0	Advanced Elective – Weighted 1.0
11-12	SC1102	AP Chemistry	1.0	Advanced Elective – Weighted 1.0
11-12	SC1113	Chemistry 101 Survey of Chemistry	1.0	Advanced Elective – Weighted 1.0
11-12	SC1106	AP Physics	1.0	Advanced Elective – Weighted 1.0
11-12	SC1104	Physics 210, General Physics I	1.0	Advanced Elective – Dual Credit – Weighted 1.0
11-12	SC1105	Anatomy and Physiology	1.0	Advanced Elective – Weighted 1.0 (Beginning 8/2019)
10-12	ND1104	Medical Terminology	0.5	Elective
11-12	SC1112	Forensic Science	1.0	Elective
11-12	SC1115	Earth & Space Science	0.5	Elective
11-12	SC1116	Ecology	0.5	Elective
11-12	SC1117	AP Environmental Science	1.0	Elective
11-12	SC1114	Zoology	0.5	Elective

SCIENCE COURSE FLOW CHART

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Physical Science Honors Physical Science	Applications of Biology & Chemistry Chemistry Environmental Science	Biology Honors Biology AP Chemistry AP Physics/Physics 210 Forensic Science Anatomy & Physiology Medical Terminology Zoology	AP Biology Biology 101 – General Biology AP Chemistry AP Physics/Physics 210 (Dual Credit) Anatomy & Physiology Medical Terminology Forensic Science Zoology Earth & Space Science Zoology

PHYSICAL SCIENCE

1 Credit

SC0902

9

This course is an introductory, general science course that explores the physical world we live in. Students will participate in labs and other in class activities.

HONORS PHYSICAL SCIENCE

1 Credit

SC0904

9

This course is the advanced section of required Physical Science for freshmen. It is an introductory, general science course that explores the physical world we live in. Students will participate in labs and other class activities.

APPLICATIONS OF BIOLOGY & CHEMISTRY SC1003**1 Credit 10**

This course presents topics of biology and chemistry with an emphasis on real world applications. Units of study include the study of science as an investigation, medical science, cellular activities, chemistry, and forensic sciences. This course includes an emphasis on laboratory work.

CHEMISTRY I SC1000**1 Credit 10**

This course is a study of the composition of matter in which students learn about the structure of atoms and how they combine to form compounds. Topics of Chemistry studied are: Physical Properties of Matter and Change; Energy and States of Matter; Atomic Structure; Elemental Properties; Chemical Bonding; Chemical Reactions; Equations; Stoichiometry.

Chemistry is strongly recommended for college bound students.

ENVIRONMENTAL SCIENCE SC1108**1 Credit 10**

This course surveys key topics of environmental analysis, ecology, energy flow, earth's systems, and atmospheric, land, and water science. Students will work on projects related to ecosystems, scarcity of resources, and threats to the environment.

CHEMISTRY 101 SURVEY OF CHEMISTRY SC1113**1 Credit/5 College Credits (Weighted 1.0) 11-12**

This course is offered for Dual Credit through Metropolitan Community Colleges (instructor permitting). This introductory course is a survey of the principles of chemistry and the role and significance of chemistry in the modern world.

PREREQUISITE: *Chemistry or Instructor Approval*

BIOLOGY SC1001**1 Credit 10-12**

Biology includes the study of science as investigation, cell structures and processes, the survey of living things, investigating similarities and differences, change of living things through time, transmission of traits from generation to generation, and living things in relation to their environment. Laboratory activities will frequently be used to illustrate the concepts to be learned.

PREREQUISITE: *Physical Science*

HONORS BIOLOGY: SC1107**1 Credit 11-12**

In Pre-AP Biology students will learn important investigative skills i.e., the collection of data and precision in measurement, how to organize, analyze, evaluate, make inferences and predict trends from data, and how to communicate valid conclusions through the presentation of data tables, graphs, and bar/pie charts. There will also be a focus on important academic skills i.e., the synthesis of

information, critical thinking, problem solving and creativity and innovation. Content will center on organic chemistry, microbiology, energy in living systems, ecology, and chemical cycles. PREREQUISITE: *Physical Science, Chemistry/Pre-AP Chemistry and Algebra I*

BIOLOGY 101 GENERAL BIOLOGY SC1110**1 Credit/5 College Credits (Weighted 1.0) 12**

This course is offered for Dual Credit through Metropolitan Community Colleges. This introductory course is an overview of biological principles and methods applied to selected groups of living organisms and their environment. PREREQUISITE: *Honors Biology or Instructor Approval*

AP BIOLOGY: SC1101**1 Credit (Weighted 1.0) 12**

AP-Biology includes advanced topics in Biology presented at an introductory college-level. Primary emphasis in an AP Biology course will be on developing an understanding of concepts rather than on memorizing terms and technical details. Essential to this conceptual understanding are a grasp of science as a process rather than as an accumulation of facts; personal experience in scientific inquiry; recognition of unifying themes that integrate the major topics of biology; and application of biological knowledge and critical thinking to environmental and social concerns. The major themes of the course are: Science as a process; evolution; energy transfer; continuity and change; Relationship of structure to function; regulation; interdependence in nature; science, technology, and society. PREREQUISITES: *Algebra I, Physical Science, Chemistry, Honors Biology*

AP CHEMISTRY: SC1102**1 Credit (Weighted 1.0) 11-12**

AP-Chemistry is designed to further develop some major concepts learned in the Honors Chemistry course and introduce several new concepts that are fundamental to understanding the physical nature of matter. Laboratory activities are an essential component of each unit. Students are required to make predictions, elucidate misconceptions, observe phenomena and reconcile their understanding with what they observe while following the curriculum's carefully structured concept development. Using the Modeling Methodology, instruction is organized around a storyline of concept flow specifically designed to develop a model. This course is highly recommended for those students considering science as a field of study in college. PREREQUISITE: *Algebra II (could be taken concurrently), Physical Science and Chemistry*

AP PHYSICS: SC1106**1 Credit (Weighted 1.0) 11-12**

AP Physics is a lab-based, student-centered course for students interested in receiving college credit through the AP program. The course follows the College Board Advanced Placement Syllabus for algebra-based Physics and students are encouraged to take the AP exam in May.

If they choose, students may undertake self-directed investigations into topics that interest them. In general students interested in medical, engineering, or science related careers take this class.

PREREQUISITE: *Algebra II*

AP ENVIRONMENTAL SCIENCE **SC1118**
1 Credit **11-12**

Students cultivate their understanding of the interrelationships of the natural world through inquiry-based lab investigations and field work as they explore concepts like the four Big Ideas; energy transfer, interactions between earth systems, interactions between different species and the environment, and sustainability.

PHYSICS 210, GENERAL PHYSICS I: **SC1104**
1 Credit/4 College Credits (Weighted 1.0) **11-12**

Fundamental principles of physics will be studied including mechanics, heat and energy, and applications of these principles to different interdisciplinary natural science. Four hours of college credit may be earned through UMKC.

PREREQUISITE: *Algebra II*

ANATOMY AND PHYSIOLOGY: **SC1105**
1 Credit (Weighted 1.0) **11-12**

This course offers an in-depth study of the structure and function of body systems. Students will perform dissections on various organisms and body parts as a part of their curriculum. This course is recommended for all students interested in a career in the health services field and will prepare students for college studies in anatomy and physiology.

PREREQUISITE: *Biology and Chemistry*. This course may be taken by 11th grade students only if it is taken concurrently with one of the other 11th grade offerings.

EARTH & SPACE SCIENCE **SC1115**
½ Credit **11-12**

The Earth and Space Science course is a course focusing on the study of space, geologic structures and forces, the waters on our planet, and the atmospheric forces that shape our world. The course is designed to lay the groundwork then move into various human systems.

ECOLOGY **SC1116**
½ Credit **11-12**

Ecology is the study of the interactions between organisms and their environment. This course provides a background in the fundamental principles of ecological science,

including concepts of natural selection, population and community ecology, biodiversity, and sustainability.

MEDICAL TERMINOLOGY: **ND1104**
½ Credit **10-12**

Medical terminology is designed to develop in the students a working knowledge of the language of medicine. Students acquire word-building skills by learning prefixes, suffixes, roots, and abbreviations. Utilizing a body systems approach, the student will define, interpret, and pronounce medical terms relating to structure and function, pathology, diagnosis, clinical procedures, and pharmacology. This course is designed for students interested in pursuing a career in a medical field.

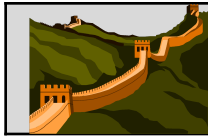
FORENSIC SCIENCE **SC1112**
1 Credit **12**

Forensic Science is the application of science to those criminal and civil laws that are enforced by police agencies in a criminal justice system. It has become a comprehensive subject incorporating Biology, Chemistry, Physics, Entomology, Earth Science, Anatomy and Physiology as well as other aspects of Science. Major topics include processing a crime scene, collecting and preserving evidence, identifying types of physical evidence, organic and inorganic analysis of evidence, hair, fibers, and paint, toxicology, arson and explosion investigations, serology, DNA, fingerprints, firearms, and document analysis. The main focus of this course will be to emphasize the evidential value of crime scene and related evidence and the services of what has become known as the crime laboratory.

PREREQUISITE: *Biology and Chemistry*

ZOOLOGY: **SC1114**
½ Credit **11-12**

Zoology is the study of animals. This semester course will cover a broad overview of the taxonomy (classification) of animals on earth, as well as their behaviors, physical makeup, and distribution. Instruction will include collecting specimens, dissections, and a variety of hands on, lab-based activities. Students interested in any aspect of animal science, or furthering their biology education would find value in this course. **This course is recommended for students interested in taking Animal Health Sciences at Southland CAPS.**



SOCIAL STUDIES DEPARTMENT

Social Studies courses are designed to provide students with a solid background in four major areas of learning. These areas are economical, historical, political, and social. Advanced courses are for those students who choose a more rigorous pathway.

Grade	Course Number	Course Offerings	Credit	Course Type
9	SS0902	Ancient World History (up to 1200 CE)	1.0	Required
9	SS0904	AP Ancient World History	1.0	Advanced
10	SS1000	Modern World History (1200 CE to present)	1.0	Required
10-12	SS1003	AP Modern World History	1.0	Advanced (<i>Replaces World History SS1000</i>) – Weighted 1.0
10-12	SS1001	Psychology	0.5	Elective
10-12	SS1101	Sociology	0.5	Advanced
10-12	SS1217	Intro to Social Justice	0.5	Elective
10-12	SS1218	What's Race Got to Do With It?	0.5	Elective (may be taken for dual credit)
11	SS1100	American History	1.0	Required
11-12	SS1110	AP American History	1.0	Advanced (<i>May Replace American History SS1100</i>) – Weighted 1.0
11-12	SS1104	American History 101	0.5	Advanced Elective – Dual Credit
11-12	SS1105	American History 102	0.5	Advanced Elective – Dual Credit
11-12	SS1113	American Government	1.0	Required
11-12	SS1114	AP American Government	1.0	Advanced (<i>May Replace American Government SS1113</i>) – Weighted 1.0
11-12	SS1213	American Government 210	0.5	Advanced (<i>May Replace American Government SS1113</i>) – Weighted 1.0
11-12	SS1212	Introduction to Comparative Politics	0.5	Advanced (must be taken as a prerequisite to SS1213)
11-12	SS1004	Ethics & Behavioral Science	0.5	Elective
11-12	SS1106	Criminal Justice	0.5	Elective
11-12	SS1108	Western Civilization 201	0.5	Advanced Elective – Dual Credit Weighted 1.0
11-12	SS1109	Western Civilization 202	0.5	Advanced Elective – Dual Credit Weighted 1.0
11-12	SS1111	Introduction to Microeconomics	0.5	Advanced Elective – Dual Credit Weighted 1.0
11-12	SS1214	History of Warfare – HIS 252	0.5	Advanced Elective – Dual Credit Weighted 1.0
11-12	SS1215	AP Psychology	1.0	Advanced Elective – Dual Credit Weighted 1.0
11-12	SS1115	Student Government & Citizenship	1.0	Advanced Elective

Social Studies Course Flow Chart

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Ancient World History AP Ancient World History	Modern World History AP Modern World History <u>Electives:</u> Psychology Sociology Ethics Criminal Law	American History AP American History American History 101/102 <u>Electives:</u> Psychology Sociology Ethics Criminal Law Western Civilizations 201/202 AP Psychology History of Warfare	American Government AP American Government Introduction to Comparative Politics/American Government 210 Western Civilizations 201/202 AP Psychology <u>Electives:</u> Psychology Sociology Ethics Criminal Law Introduction to Macro/Microeconomics History of Warfare

ANCIENT WORLD HISTORY **SS902**
1 Credit **9**
 This class will examine major points of ancient world history up to 1200 CE from a multicultural perspective.

AP ANCIENT WORLD HISTORY **SS0904**
1 Credit **9**
 This advanced class will examine major points of ancient world history up to 1200 CE from a multicultural perspective.

MODERN WORLD HISTORY: **SS1000**
1 Credit **10**
 World History is a survey course which begins from 1200CE and ends with current world events. Major emphasis will be placed upon the more recent achievements and attitudes of mankind. This emphasis will be concentrated on the cultural, social, political, and geographic area.

AP MODERN WORLD HISTORY:
SS1003
1 Credit (Weighted 1.0) **10**
 The AP World History course will provide students with a learning experience equivalent to that of an introductory college course in World History. The course will highlight the nature of changes and continuities over time and their causes and consequences, as well as comparisons among major societies. Students will develop analytic skills through exposure to historical documents, visual and statistical evidence, and conflicting interpretations. The course provides balanced global coverage with Africa, the Americas, Asia, and Europe all represented.

PSYCHOLOGY: **SS1001**
1/2 Credit **10-11-12**
 The subject of psychology has been carefully organized to present its subject matter in a logical order. Orientation and background materials are given the student in the beginning of the course. Topics discussed are: learning; language and thinking; motivation; personality and its measurement; disorders of behavior; and vocational choice. This course presents a well-rounded treatment of general psychology.

AMERICAN HISTORY: **SS1100**
1 Credit **11**
 This is a general survey course of the political, social, and economic progress of our nation from the Civil War through the present time with a focus on democratic participation and citizenship.

AP AMERICAN HISTORY **SS1110**
1 Credit (Weighted 1.0) **11-12**
 Designed for highly motivated students, participants survey United States history from colonial times to the present, emphasizing important social, political, cultural, and economic forces that have shaped the United States. Research, reading, and writing are essential to success in this course. This course offers students the opportunity to

earn college credit through Advanced Placement testing while fulfilling the United States history requirement for graduation.

AMERICAN HISTORY 101/102: **SS1104/1105**
1/2 Credit/3 College Credits (per sem) **11*-12**
 This course will cover the political and social development of American civilization from the Colonial Period through the present. The college syllabus and textbooks are used and students must pay tuition fees at the beginning of the semester. The tuition costs are approximately 1/3 what they are on campus and full scholarships are available.

SOCIOLOGY: **SS1101**
1/2 Credit **10-12**
 This course is concerned with the study of human behaviors in group relationships. This course provides students with an overview of the three major sociological perspectives, social science research methods, and the processes of socialization. Study of social groups, organizations, and institutions of the family, education, economy is included. Other topics include social stratification based on class, gender, race and ethnicity, deviance, and social change.

ETHICS: **SS1004**
1/2 Credit **11-12**
 This course is offered for the student who wants an in-depth look at the evolution of individual rights and liberties in this country. The first quarter will primarily focus on the American legal system, court components, and criminal law. The second quarter will focus on individual liberties in the Bill of Rights and civil rights. This class may be taken concurrently with Criminal Justice or American Government.

CRIMINAL JUSTICE: **SS1106**
1/2 Credit **11-12**
 This survey course examines the history of the legal process and the administration of justice in American society. Students will analyze the criminal process from the police function through adjudication, sentencing, and corrections (juvenile and adult), as well as the social, moral, and political issues involved in the administration of justice in a free society through the US Supreme Court student, current event, and major crimes of the century. This class can be taken concurrently with US Government.

WESTERN CIVILIZATION 201/202: **SS1108/1109**
1/2 Credit/3 College Credits (per sem) **11*-12**
 This course surveys the political, social, and cultural history of Europe from ancient times to present. Most importantly, the students will spend considerable time analyzing current changes in European countries, politically, economically, and socially, that have occurred in the last two decades of the 20th century. *(These classes [Western Civilization 201 and 202] are college credit courses offered through UMKC.*
PREREQUISITE: *Junior with permission of instructor and principal.

INTRODUCTION TO MICROECONOMICS SS1111
1/2 Credit/3 College Credits 11-12

Economics is the study of how individuals and societies choose to use the scarce resources that nature and previous generations have provided. In economics, you will learn a way of thinking that will enable you to understand better society and global affairs. Microeconomics is the branch of economics that examines the economic behaviors of the individual, the firm, and the industry. The knowledge and understanding gained in the course will provide the essential basis for more advanced studies in economics.

AMERICAN GOVERNMENT SS1113
1 Credit 11-12

This course encompasses the fundamentals of American Government from its origins, through a thorough study of the U.S. Constitution, to present day contemporary issues. Emphasis is placed upon the history of the U.S. Government, its 6 principles, and how it relates to the U.S. Constitution, Civil Rights, and voter responsibility. **Successful completion of this course as well as a passing grade on the U.S. Constitution Exam is a graduation requirement of the Hickman Mills C-1 School District.**

AP AMERICAN GOVERNMENT SS1114
1 Credit (Weighted 1.0) 11-12

This AP course provides instruction in the constitutional underpinnings of the United States Government as well as in political philosophy, political parties, interest groups, civil liberties and mass media. The class will also provide students practice in analyzing materials. This course offers students the opportunity to earn college credit through Advanced Placement testing while fulfilling the United State Government requirement for graduation. This course is offered only in the second semester to coincide with AP testing in the spring.

INTRO TO COMPARATIVE POLITICS SS1212
1/2 Credit (Weighted) 11-12

Introduces students to general concepts of political authority and systemically analyzes the causes and consequences of variation in political institutions, process and policies across countries, illustrating concepts and themes with case studies of major European and Asian countries. This course is a college credit class through UMKC. Successful completion of this course may provide ½ unit of high school credit plus 3 hours of college credit.

NOTE: This course must be taken in conjunction with American Government 210.

AMERICAN GOVERNMENT 210 SS1213
1/2 Credit (WEIGHTED) 11-12

This course encompasses the fundamentals of American Government from its origins, through a thorough study of the U.S. Constitution, to present day contemporary issues. **NOTE: This course must be taken in conjunction with Intro to Comparative Politics and counts towards the required American Government credit.**

INTRODUCTION TO ECONOMICS 202 SS1115
1/2 Credit /3 College Credits (Weighted) 11-12

Introduction to Economics 202 is Macroeconomics. This is the study of the American economic system from an aggregated perspective; supply and demand theory, labor, unemployment, stocks and bonds, household and firm behavior, and the Federal Reserve System. Additional topics will include national income accounting, business cycles, fiscal problems and policy. *(These classes [Introduction to Microeconomics and Introduction to Economics] are college credit courses offered through UMKC. These courses are limited to students enrolling for both high school and college credit.*

HISTORY OF WARFARE SS1214
1/2 Credit/3 College Credits (Weighted) 11-12

This course will survey a broad expanse of military history as an introduction to the discipline and the practice of war over time and space. It will examine the idea of war, changes in warfare, total war, technology, the nature of armies, the role of war in society, and major theories of warfare. *This course is offered for Dual Credit through Park University.*

AP PSYCHOLOGY SS1215
1 Credit (Weighted 1.0) 11-12

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice.

STUDENT GOVERNMENT & CITIZENSHIP SS1115
1 Credit 11-12

This course is part of the 20/20 Leadership Program at Ruskin High School. Goals include: exposure to community issues and relationships and building of leadership skills. Students in this course organize activities at school, encourage service learning opportunities, and incorporate networking and scholarship opportunities. Participants have the opportunity to participate in the 20/20 Olympics as well as the Major League Baseball Scholarships.

INTRO TO SOCIAL JUSTICE SS1217
1/2 Credit 10-12

Social justice is the study of the distribution of opportunities in our society based upon the intersection of the legal system, wealth and shared history. The Ruskin Social Justice class is built upon the words of the Preamble, "we the people", and the Reconstruction Amendments. This class examines the relationship between past and present social justice initiatives throughout the history of America, and the role young people play in moving the country forward. The course uses DESE Social Study standards, Hickman Mills

Instructional Priorities, Social Justice Standards, project based learning, and Real World Learning strategies.

**WHAT'S RACE GOT TO DO WITH IT? SS1218
½ Credit 10-12**

Students study how racialization of time and space has led us to where we are today, in Kansas City, and in the country. The course will provide students opportunities to investigate their own questions about race and study the “why” about how race has influenced human behavior. Note - this course follows curriculum developed through

UMKC’s Department of Urban Education and students have the opportunity to earn 3 college credit hours, if desired.



**FINE ARTS
VISUAL ARTS DEPARTMENT**

The visual arts communicate to all people, in all languages, in all countries, at all times. Understanding the visual arts requires hands-on experiences. Research has proven that the study of art sharpens both conceptual and analytical abilities; art nurtures creativity and imagination that is necessary for innovative thinking and problem solving; art enables people to appreciate and understand mankind's highest achievements. These courses can lead to both a career and a life-long appreciation of the visual arts.

Grade	Course Number	Course Offerings	Credit	Course Type
9-12	AR0900	Art Foundations	0.5	Required for students who wish to advance to all other upper-level art courses
10-12	AR0901	Art Appreciation	0.5	Fine Arts Elective
10-12	AR0902	2-D Design Studio I	0.5	Fine Arts Elective
10-12	AR1104	2-D Design Studio II	0.5	Fine Arts Elective
10-12	AR0903	3-D Design Studio I	0.5	Fine Arts Elective
10-12	AR1102	3-D Design Studio II	0.5	Fine Arts Elective
10-12	AR0904	Intro to Adobe Illustrator	0.5	Fine Arts Elective
10-12	AR1103	Intro to Adobe Photoshop	0.5	Fine Arts Elective
10-12	AR1000	Ceramics I	0.5	Fine Arts Elective
10-12	AR1001	Advanced Ceramics	0.5	Fine Arts Elective
11-12	AR1106	AP Art & Design	1.0	Advanced – Weighted 1.0
11-12	AR1107	Pathways to Graphic Design	1.5	Advanced
11-12	AR1107	Pathways to Graphic Design Capstone	1.5	Advanced

Visual Arts Course Flow Chart

9th Grade	10th Grade	11th Grade	12th Grade
Art Foundations Art Appreciation	Intro to Adobe Illustrator Intro to Adobe Photoshop 2D Design Studio I/II 3D Design Studio I/II Art Appreciation Ceramics I/II	Intro to Adobe Illustrator Intro to Adobe Photoshop 2D Design Studio I/II 3D Design Studio I/II Art Appreciation Ceramics I/Advanced Ceramics AP Art & Design (year) Pathways to Design (year)	AP Art & Design (year) Ceramics I/II Pathways to Design Capstone (year)

**ART FOUNDATIONS: AR0900
1/2 Credit 9-10-11-12**

This is a prerequisite course for all art classes. Students will gain experience working with a variety of media, tools, and techniques, as well as exploring careers in Art.

**ART APPRECIATION: AR0901
1/2 Credit 10-11-12**

This course is designed and recommended for those students who do not wish to take any upper level art courses. Through research-based projects, multimedia presentations and field trips students will gain experience in art forms, art movements and artists.

2-D DESIGN STUDIO I: AR0902
1/2 Credit 10-11-12

This course is designed to introduce a variety of drawing and painting media, techniques, and subjects.

PREREQUISITE: *Art Foundations*

2-D DESIGN STUDIO II: AR1104
1/2 Credit 10-11-12

This is an advanced course for students who wish to further develop skills and techniques with a variety of drawings and painting media and subjects.

PREREQUISITE: *2-D Design Studio*.

3-D DESIGN STUDIO I: AR0903
1/2 Credit 10-11-12

This course is designed for students who wish to explore 3-dimensional art forms in a variety of media (clay, wire, paper, wood, etc.). Design quality, a creative approach to work, and good craftsmanship will be strongly emphasized.

PREREQUISITE: *Art Foundations*

3-D DESIGN STUDIO II: AR1102
1/2 Credit 10-11-12

This course will deal with advanced problems in 3-dimensional design.

PREREQUISITE: *3-D Design Studio I*

INTRO TO ADOBE ILLUSTRATOR: AR0904
1/2 Credit 10-11-12

This course is designed to introduce students to Adobe Illustrator (computer software) while learning how to create and draw artwork digitally (on the computer). Adobe Illustrator is an essential design tool for anyone wanting to explore careers in graphic design, digital arts, and many other design fields.

PREREQUISITE: *Art Foundations*

INTRO TO ADOBE PHOTOSHOP AR1103
1/2 Credit 10-11-12

This course is designed to introduce students to Adobe Photoshop (computer software) while learning how to edit and manipulate photographs, incorporate text into imagery, and distort reality in digital photographs (on the computer). This course also gives students the opportunity to explore the fundamentals of photography.

PREREQUISITE: *Art Foundations*

CERAMICS I
AR1000
½ Credit 10-12

This course will survey an introduction to the variety of hand-building techniques using clay to create three-dimensional ceramic artworks.

PREREQUISITE: *Art Foundations*

ADVANCED CERAMICS AR1001
½ Credit 10-12

This course will survey an advanced overview of a variety of hand-building techniques using clay to create three-dimensional ceramic artworks. It will examine a brief history of clay use and ceramics, the process for creating a ceramic piece of art, techniques for working with clay, attaching clay figures to other forms, and using glaze to add color and other effects to ceramic artworks. This course will incorporate advanced projects and forms, resulting in realistic sculptural ceramic artworks.

PREREQUISITE: *Ceramics I*

AP ART & DESIGN:
AR1106

1 Credit (Weighted 1.0) 11-12

AP Art & Design is for highly motivated students who are seriously interested in the study of art; the program demands significant commitment. It is highly recommended that studio art students have previous training in art. As with all AP courses, students can receive college credit based on the College Board Exam/Portfolio score. This course may be repeated.

PREREQUISITE: Art Foundations and Instructor Approval

PATHWAYS TO GRAPHIC DESIGN AR1107
1.5 Credit 11-12

This course is for students interested in graphic design, designing and creating marketing materials and logos, and using the Adobe Creative Suite to explore the fundamentals of graphic design and typography. Students will participate in an innovator program that combines dual-credit coursework in graphic design with internship opportunities with local design firms. Students may be off campus for ½ day.

PREREQUISITE: *Art Foundations and Introduction to Adobe Illustrator*

PATHWAYS TO GRAPHIC DESIGN CAPSTONE
AR1108

1.5 Credit 11-12

This course is for students returning for a second year in the Pathway to Graphic Design program. Students will work with community partners on client-based projects and on building a portfolio of their work to use for college and career opportunities for post-secondary opportunities. Students will continue exploration of graphic design with internship opportunities with local design firms. Students may be off campus for ½ day.

PREREQUISITE: *Pathway to Graphic Design*



Grade	Course Number	Course Offerings	Credit	Course Type
9	MU0903	Intermediate Choir	1.0	Fine Art Elective
9-12	MU0901	Band	1.0	Fine Art Elective
10-12	MU1006	Advanced Band	1.0	Fine Art Elective
9-12	MU0902	Fundamentals of Music	0.5	Fine Art Elective
9-12	MU0904	Orchestra	1.0	Fine Art Elective
10-12	MU1007	Symphony Orchestra	1.0	Fine Art Elective
10-12	MU1002	Music Theory/Composition	1.0	Fine Art Elective
10-12	MU1001	Mixed Vocal Ensemble	1.0	Fine Art Elective
9-12	MU1003	Advanced Choir	1.0	Fine Art Elective
10-12	ST1003/ST1103	Musical Theatre/Advanced Musical Theatre	1.0	Fine Art Elective
10-12	MU1004	History of Music	0.5	Fine Art Elective

Music Course Flow Chart

Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
Orchestra		Orchestra	Orchestra	Orchestra			Symphony Orchestra
Band		Band	Band	Band			Advanced Band
Choir		Choir	Choir	Choir			Intermediate Choir Advanced Choir
		Fundamentals of Music		Fundamentals of Music History of Music			Theory & Composition Musical Theater Advanced Musical Theater

BEGINNING BAND:

1 Credit

MU0901

9-10-11-12

This is beginning level band. Participation in band concerts, music festivals, parades, marching festivals, and sporting events are a part of the class syllabus. Small ensemble and district/state solo performance opportunities are also available. Attendance at ALL rehearsals, performances, and contests during and outside of the school day is a requirement of the class.

ADVANCED BAND

1 Credit

MU1006

10-11-12

This course is for advanced band students. See description above.

ORCHESTRA:

1 Credit

MU0904

9-10-11-12

The orchestra is composed of string players and of select wind, brass, and percussion players selected through audition and /or approval by the orchestra director. Attendance at ALL rehearsals, performances, and contests during and outside the school day are a requirement of the class. Students need to understand that rehearsals, contests, and concerts are a part of the class and failure to attend these may be reflected in their grade. Advanced

ensemble training, advanced technique and the opportunity to perform in public are provided in the class.

SYMPHONY ORCHESTRA:

1 Credit

MU1007

10-11-12

An advanced winds and strings course offers wind & strings players and percussionists an opportunity to experience orchestra, stage band, jazz band, and/or other ensemble performances. Rehearsals and concerts outside of class time are a part of this course. Students enrolled are required to attend ALL rehearsals, concerts, and contests. **PREREQUISITE:** *Approval of instructor and principal.*

MUSIC THEORY/COMPOSITION:

1 Credit

MU1002

10-11-12

The purpose of this course is to provide the serious music and non-music student with interest in music theory/composition, the fundamentals of music theory to include: melody, harmonization, fundamentals of piano, intervals, chords (triads and 7th chords), modulation, orchestration, computer technology, non-traditional music applications, music history, sight-singing, and ear training. Original composition work will be encouraged and mentored. Opportunity exists for mentoring from local

college/university music theory/composition departments. Prior music background is required. This course may be taken for a second year. Contact instructor for any additional information or questions.

PREREQUISITE: Successful completion of a H.S. level music course with a C or above, including Music Lab I/II, Fundamentals of Music, choir, band, orchestra, History of Music.

FUNDAMENTALS OF MUSIC MU0902
1/2 Credit 10-11-12

This course is open to all students who enjoy all types of music. It may encompass a study of piano and the keyboard, the basic elements of music theory, instruments of the orchestra, and various examples of composers and their works throughout history to the present time. No audition required. This course will utilize technology as an instructional tool. Course may not be repeated.

INTERMEDIATE CHOIR: MU0903
1 Credit 9

This choir sings works from all forms and styles of music, and performs for such functions as school assemblies, district clinics, and evening concerts. Successful audition and a desire to be an active participant in a performing group are required. Students need to understand that rehearsals, contests, and concerts are a part of the class and failure to attend these may be reflected in their grade. Students enrolled are expected to attend all rehearsals, concerts, and contests. Women's Intermediate Choir will combine with Men's Intermediate Choir for certain song selections and performances.

PREREQUISITE: *Enrollment only upon successful audition with instructor.*

MIXED VOCAL ENSEMBLE: MU1001
1 Credit 10-11-12

This is a public performance group, which performs at community and school functions. This course is designed to offer the serious vocal student and extended experience in vocal literature and is intended to provide enrichment to—and not in place of—the student's other choir activities. Attendance is required at **ALL** rehearsals, contests, and concerts, which may extend outside of the school day. Failure to attend may be reflected in their grade.

PREREQUISITE: *Open only to sophomores, juniors and seniors who were previously enrolled in *Advanced Choir*. *Successful audition with instructor required.*

ADVANCED CHOIR: MU1003
1 Credit 10-11-12

This is a public performance group that performs at community and school functions. This course is designed to offer the serious vocal student an extended experience in vocal literature. Attendance is required at **ALL** rehearsals, contests and concerts, which may extend outside of the school day,. Failure to attend will be reflected in their grade.

PREREQUISITE: Open only to those students who have had a successful audition with the instructor. Previous choral experience is preferred, but may not be required.

HISTORY OF MUSIC MU1004
1/2 Credit 10-11-12

In this class we will explore the history of music in our world. The class will touch on the music of the old world but will mostly focus on the music of recent days and the present. These include: Jazz, Blues, Funk, HipHop, Rap, Rock, and many more. We will also delve into notable artist of the past such as: Mozart, Beethoven, Michael Jackson, James Brown, Tupac Shakur, Biggie Smalls, Ice Cube, and many more.

MUSICAL THEATRE/ADVANCED MUSICAL THEATRE ST1003/ST1103
1 credit 10-11-12

The purpose of this course is to enable students to participate in varied aspects of musical theatre, with special attention to the fundamentals of voice production, stage movement, acting, characterization, dance and technical aspects of a musical production.



SPEECH AND THEATRE ARTS DEPARTMENT

The Speech and Theatre Arts Department offers you a wide variety of opportunities; from Fine Art to Practical Art, and dual credit through MCC Longview—there is something for everyone! We recommend the following sequences for your individual interest.

<u>Grade</u>	<u>Course Number</u>	<u>Course Offerings</u>	<u>Credit</u>	<u>Course Type</u>
9-12	ST1100	Oral Communications	0.5	Required**
11-12	ST1105	Fundamentals of Effective Speaking & Listening	0.5	Required**
9-12	ST1001	Drama I	1	Fine Art Elective
10-12	ST1102	Repertory Theatre	1	Fine Art Elective
11-12	ST1201	Advanced Repertory Theatre	1	Fine Art Elective
12	ST1300	Theatre Practicum	1	Fine Art Elective
10-12	ST1002	Argument and Debate I	1	Fine Art Elective
11-12	ST1101	Argument and Debate II	1	Fine Art Elective
11	ST1200	Argument and Debate III	1	Fine Art Elective
12	ST1205	Argument and Debate IV	1	Fine Art Elective
10-12	ST1108	Competitive Drama I	1	Fine Art Elective
11-12	ST1109	Competitive Drama II	1	Fine Art Elective
11	ST1110	Competitive Drama III	1	Fine Art Elective
12	ST1210	Competitive Drama IV	1	Fine Art Elective
10-12	ST1003	Musical Theatre	1	Fine Art Elective
10-12	ST1103	Advanced Musical Theatre	1	Fine Art Elective
10-12	ST1104	Stagecraft	1	Practical Art Elective
9-12	Z1104	Adaptive Theatre	1	Fine Art Elective

*****Students who participate in advanced level Debate and/or Competitive Drama may request a waiver of credit for Oral Communications or Fundamentals of Speech pending teacher approval. Students who participate in Fundamentals of Speech will have met the Speech requirement for graduation.***

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Oral Communications (AC House Students) Drama I	Drama I Repertory Theatre Argument & Debate I Competitive Drama I Stagecraft Musical Theatre	Fundamentals of Speech Advanced Repertory Theater Argument & Debate II Competitive Drama II Stagecraft Musical Theatre Advanced Musical Theatre	Oral Communications Fundamentals of Speech Advanced Repertory Theatre Argument & Debate IV Competitive Drama IV Stagecraft Advanced Musical Theatre Theatre Practicum

ORAL COMMUNICATIONS: ST1100 1/2 Credit **REQUIRED** (unless taking Fundamentals of Speech) 9-10-11-12

This is a general course in basic communication skills. The course will focus on helping students improve communications skills by understanding the

communication process and learning basic speech techniques. *****Students who participate in advanced level Debate and/or Competitive Drama may request a waiver of credit for Oral Communications pending teacher approval..***

FUNDAMENTALS OF EFFECTIVE SPEAKING & LISTENING: ST1105

½ Credit 11-12

This course may be taken in place of Oral Communications by students who wish to receive college credit through UMKC. This is an introductory public speaking course including practical application of speaking and listening skills. The emphasis will be on the organization and delivery of subject matter.

DRAMA I: ST1001

1 Credit 9-12

This is a beginning acting course that introduces the student to the theatre. This class will require participation in public performances. Students will participate in a variety of acting experiences including improvisation, duet acting, and monologues. Students will also be given an overview of theatre history and the structure of Drama.

REPERTORY THEATRE: ST1102

1 Credit 10-12

This advanced theatre course will emphasize the understanding of acting techniques, directing, technical theatre, and design.

PREREQUISITE: Drama I

ADVANCED REPERTORY THEATRE: ST1201

1 Credit 11-12

This course gives the serious-minded drama student the opportunity for advanced work in acting and directing including light and sound design and maintenance; costume design and construction; make-up design and application; house management and box office sales; property design and acquisition; and publicity.

PREREQUISITE: *Repertory Theatre* or teacher approval

THEATRE PRACTICUM ST1300

1 Credit 12

This course is the capstone course for students interested in pursuing a post-secondary career in a Theatre Arts field. This course may include dual credit/dual enrollment coursework and performance coursework.

ARGUMENT AND DEBATE I: ST1002

1 Credit 10-12

This course is the first course for those interested in acquiring advanced communication skills. The students will study the principles of argumentation as they apply to the construction and defense of a proposition on a relevant problem through classroom and tournament presentations.

Contest participation is required.

ARGUMENT AND DEBATE II: ST1101

1 Credit 11-12

This course gives the serious debate student the opportunity to develop his/her debate skills through classroom instruction, and tournament and classroom presentations. Emphasis is on researching for specific evidence that will aid in developing affirmative and

negative propositions on various resolutions. **Contest participation is required.**

PREREQUISITE: Argumentation and Debate I.

ARGUMENT AND DEBATE III: ST1200

1 Credit 12

This course is a continuation of the skills learned in both Argumentation and Debate I and II. The student will research a variety of debate topics with the emphasis being placed on the development of complex logic. Skills will be demonstrated through classroom and tournament presentations. **Contest participation is required.**

PREREQUISITE: Argumentation and Debate I and II.

ARGUMENT AND DEBATE IV: ST1205

1 Credit 12

This course is a continuation of the skills learned in both Argumentation and Debate I-III. The student will research a variety of debate topics with the emphasis being placed on the development of complex logic. Skills will be demonstrated through classroom and tournament presentations. **Contest participation is required.**

PREREQUISITE: Argumentation and Debate I, II, III

COMPETITIVE DRAMA I: ST1108

1 Credit 10-12

This is a specialized course in preparation for the performance in competitive speech tournament events which include: humorous, dramatic, prose, and poetry interpretation; impromptu and duet acting; one-act plays and reader's theatre. Students are required to prepare and compete at speech tournaments and to perform their selections in class. **Contest participation is required.**

PREREQUISITE: Oral Communications and/or teacher approval

COMPETITIVE DRAMA II: ST1109

1 CREDIT 11-12

This is the second level course in the Competitive Drama sequence. Students are required to prepare and compete at speech tournaments and to perform their selections in class. **Contest participation is required.**

PREREQUISITE: Competitive Drama I

COMPETITIVE DRAMA III: ST1110

1 Credit 11-12

This is the third level course in the Competitive Drama sequence. Students are required to prepare and compete at speech tournaments and to perform their selections in class. **Contest participation is required.**

PREREQUISITE: Competitive Drama II

COMPETITIVE DRAMA IV: ST1210

1 Credit 12

This is the final course in the Competitive Drama sequence. Students are required to prepare and compete at speech tournaments and to perform their selections in class. **Contest participation is required.**

PREREQUISITE: Competitive Drama III

**MUSICAL THEATRE/ADVANCED MUSICAL
THEATRE ST1003/ST1103**
1 Credit each
10-11-12

The purpose of this course is to enable students to participate in varied aspects of musical theatre, with special attention to the fundamentals of voice production, stage movement, acting, characterization, dance and technical aspects of a musical production.

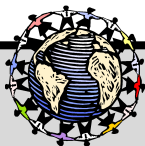
STAGECRAFT: ST1104
1 Credit (PRACTICAL ART) 10-12

This course will provide a basic foundation of general stage management and hands-on training for scenery

design and construction. NOTE: This course may be taken up to 6 semesters.

ADAPTIVE THEATRE Z1104
1 Credit 9-12

This course is for students receiving special services interested in earning a Fine arts credit. This course may be repeated.



FOREIGN LANGUAGE DEPARTMENT

In this age of global involvement and interdependence, functional second language skills and sensitivity to social and cultural differences are basic to many career and educational goals. **Many colleges recommend for entrance that a student have two to three sequential credits in the same language.**

Grade	Course Number	Course Offerings	Credit	Course Type
9-12	FL0901	Spanish I	1	Elective
10-12	FL1001	Spanish II	1	Elective
10-12	FL1003	Spanish III	1	Elective
10-12	FL1004	Spanish III/110	1	Advance Elective (May be taken for Dual Credit)- Weighted 1.0
11-12	FL 1102	Spanish IV	1	Elective
11-12	FL1105	Spanish IV/120	1	Advance Elective (May be taken for Dual Credit) -Weighted 1.0

SPANISH I: FL0901 1 Credit 8-9-10-11-12

Spanish 1 is a beginning course for students who have little or no background knowledge of Spanish. Through daily practice, students will achieve a basic level of fluency in speaking, listening, reading, and writing in Spanish. Students are exposed to a variety of Spanish-speaking countries and gain an awareness of the customs and the peoples of these cultures. Basic instructions will be given in the target language. Our courses are designed to produce the fluent speaker, reader, writer, and listener at the completion of each level of our foreign language offerings. This class is the first in a four-class set of foreign language courses offered by Hickman Mills C-1 Schools to increase our students' career and college successes post graduation.

SPANISH II: FL1001 1 Credit 9-10-11-12

Spanish 2 begins with a review of basic grammar and vocabulary learned in Spanish 1. Speaking, listening, reading, and writing skills increase with new verb tenses and new thematic vocabularies introduced. Students discuss and describe pictures, form and discuss opinions about topics, and study and explore more deeply the Spanish speaking countries, their people, and their cultures. Basic instructions will be given in the target language. Sequential questions, dialogues, conversations, and presentations are utilized to increase fluency. CD's of native speakers, authentic written materials and online resources are incorporated into curriculum. Our courses are designed to produce the fluent speaker, reader, writer, and listener at the completion of each level of our foreign language offerings.

PREREQUISITE: *Spanish I*

SPANISH III OR SPANISH 110: FL1003/1004 1 Credit 10-11-12

Spanish 3 focuses on questions in a sequence about expected topics; a review of present, past, and future verbs;

and basic grammar and vocabulary learned in Spanish 2. Oral and listening, reading and writing practices increase in depth with new verb forms and new topical vocabularies introduced. Vocabulary may focus on careers as well as academic topics. Students will discuss and describe picture sequences to tell a story; form and discuss opinions about a broad variety of topics; and study and explore more deeply the Spanish-speaking countries, their people, and their cultures. All instructions and all of the class will be given in Spanish so that they may become more orally and aurally fluent. Sequential questions, dialogues, conversations, and storytelling comprise oral fluency. Books, newspapers, advertisements, and magazine articles in Spanish focus on reading skills and comprehension. Writing skills are developed through practice and vocabulary and grammar study.

PREREQUISITE: *Spanish I* and *Spanish II*.

NOTE: This course may be taken for dual credit through UMKC depending on instructor availability.

SPANISH IV or SPANISH 120: FL 1102/1105 1 Credit WEIGHTED: 1.0 11-12

This course will prepare students for AP Spanish or Spanish at the University level. At this level, students learn complex grammatical structures and expand practical vocabulary. There is an intense focus of the subjunctive mood through reading, writing, speaking and listening in the target language. Greater knowledge of this tense will ease transition to the upper levels. After successful completion of this course students will have a higher level of fluency and comprehension in the target language.

PREREQUISITE: *Spanish I, II, and III*

NOTE: This course may be taken for dual credit through UMKC depending on instructor availability.



HEALTH/PHYSICAL EDUCATION DEPARTMENT

Grade	Course Number	Course Offerings	Credit	Course Type
9-12	PE0900/PE0901	P.E. Fundamentals Boys/Girls	0.5	½ Credit Required (This course may be repeated)
9-12	PE0910	Health	0.5	Required Elective
10-12	PE 1003	Lifetime Sports	0.5	Elective (This course may be repeated)
10-12	PE 1005	Advanced Team Sports	0.5	Elective (This course may be repeated)
10-12	PE1020	Girls' Weightlifting	0.5	Elective (This course may be repeated)
10-12	PE1021	Boys' Weightlifting	0.5	Elective (This course may be repeated)
10-12	PE1040	Yoga Practices	0.5	Elective (This course may be repeated)
10-12	PE1050	Speed/Power and Conditioning	0.5	Elective (This course may be repeated)
9-12	PE1107	Conditioning for Athletes	0.5	Elective (This course may be repeated)

P.E. FUNDAMENTALS

PE0900(Boy's)
PE0901 (Girl's)
9-10

1 Credit

Students are required to take 1 year of Fundamentals of PE.

Dress out is required for daily participation

Students will learn basic skills, rules and theory and will participate in several of the following activities: badminton, basketball, football, volleyball, softball, soccer, floor hockey, physical fitness, and racquet sports. This course involves a physical fitness testing element that will examine muscular strength, cardiovascular fitness and flexibility of each student.

HEALTH:

1/2 Credit

PE0910
9-10-11-12

This semester course is designed to encourage and promote healthy lifestyles through instruction in health and wellness. Such areas as disease control, substance abuse, family relationships, nutrition, mental health, and safety and first aid may be included. (Health/PE 1/2 credit)

LIFETIME SPORTS:

1/2 Credit

PE1003
10-11-12

Dress out is required for daily participation

This coed course will focus on the individual and dual sports series, and is designed to enhance personal and social skills in the context of individual and dual sports. It focuses on individual and dual sports. Students will learn skill development, class organizational principles, and competition strategies as well as rules, etiquette and history associated with individual and dual sports such as pickleball, badminton, tennis, Frisbee golf, bowling, and various rec/yard games. Team work, sportsmanship and safety are emphasized. Students are tested on rules and skill acquisition as well as daily participation and the ability to work with other students on a team.

ADVANCED TEAM SPORTS:

½ credit

PE1005
10-11-12

Dress out is required for daily participation.

This coed course is designed to enhance personal and social skills in the context of team sports. This course focuses on team sports. Students will learn skill development, class organizational principles, and competition strategies as well as rules, etiquette and history associated with team sports such as basketball, volleyball, soccer, softball, team handball and flag football. Team work, sportsmanship and safety are emphasized. Students will be tested on rules and skill acquisition as well as daily participation and the ability to work with other students on a team.

GIRLS WEIGHTLIFTING

½ Credit

PE1020
10-11-12

Dress out is required for daily participation

The beginning weightlifting course is designed to provide each student with the knowledge needed to understand the importance of strength and fitness training. Students will participate daily in a strength and conditioning program. While participating in this resistance training program, students will learn about related elements of anatomy, biomechanics, exercise physiology and appropriate safety skills. Students will have the opportunity to learn the importance of setting goals for personal improvement and achievement and will leave the class with an understanding of how to integrate resistance training, flexibility and plyometric principles in their personal health and fitness routine.

BOYS WEIGHTLIFTING

½ Credit

PE1021
10-11-12

Dress out is required for daily participation

The beginning weightlifting course is designed to provide each student with the knowledge needed to understand the importance of strength and fitness training. Students will participate daily in a strength and conditioning program. While participating in this resistance training program, students will learn about related elements of anatomy, biomechanics, exercise physiology and appropriate safety skills. Students will have the opportunity to learn the importance of setting goals for personal improvement and achievement and will leave the class with an understanding of how to integrate resistance training, flexibility and plyometric principles in their personal health and fitness routine.

YOGA PRACTICES

PE1040

½ CREDIT

10-11-12

Dress out is required for daily participation

This coed course promotes life-long physical activity and develops an understanding of the benefits of being healthy. In this class, we will utilize yoga practices to become more physically, mentally, energetically, and emotionally fit and will present techniques in yoga. “Yoga” means union and refers to the union of the body, mind, and breath. The emphasis in this class will be poses and postures designed to develop flexibility, muscular strength, and muscular endurance. Emphasis will be placed on correct alignment and safe practice. Yoga students will learn concepts of physical fitness, identify stress reduction techniques, gain an increased ability to concentrate, and develop a Personal Fitness Plan to support a lifetime of fitness.

SPEED/POWER AND CONDITIONING

PE1050

½ Credit

10-12

Dress out is required for daily participation

This coed course serves as a bridge between the advanced courses in Weight Training and Fitness. Speed, Power and

Conditioning is an extremely high-intensity course designed to meet the needs of highly motivated students. This class requires participation in plyometrics, circuit training, form drills, interval training, and flexibility training at an extremely high intensity. Students should expect to work extremely hard and see significant increases in speed and power. Students in this class will build on the fundamental knowledge and physiological advances that they acquired in the Intermediate Weight Training Class and/or the Intermediate Fitness Class. This course will involve participation in a strength and speed program that involves a much higher intensity and more complex movements than either intermediate or introduction classes. Elements from the field of anatomy, biomechanics, exercise physiology and appropriate safety skills will be expanded on and explored in more depth. This course is geared to the student who is training for specific goals and who sees fitness as an important part of their everyday routine. Students in this class will have individual training plans made to fit their specific needs and training requirements.

CONDITIONING FOR ATHLETES PE1107

½ Credit

9-12

This course may be taken by athletes with approval of athletic coach/director.



PRACTICAL ARTS BUSINESS DEPARTMENT

The Business Department is organized to meet the needs of students preparing for careers after graduation: employment or higher levels of education. All students can benefit from courses offered through the Business Department due to the rapidly evolving world of technology in the workplace.

<u>Grade</u>	<u>Course Number</u>	<u>Course Offerings</u>	<u>Credit</u>	<u>Course Type</u>
9-12	CE0901	Computer Applications	0.5	Elective
9-12	CE1100	Advanced Computer Applications	0.5	Elective
10-12	CE0903	Personal Finance	0.5	Graduation Requirement
9-11	CE0904	Introduction to Business	0.5	Elective
10-12	CE1000	Accounting I	1.0	Elective
11-12	CE1103	Accounting II	1.0	Elective – Articulated Credit
10-12	CE1001	Introduction to Web Design	0.5	Elective
10-12	CE1113	Advanced Web Design	0.5	Elective
10-12	CE1002	Business Technology I	1.0	Elective
12	CE1200	Business Technology II	1.0	Elective
11-12	CE1101	Business Law	0.5	Elective
10-12	CE1114	Introduction to Multimedia	0.5	Elective
10-12	CE1115	Advanced Multimedia	0.5	Elective
12	CE1202	Supervised Business Experience (SBE)	1.0-2.0	Elective

COMPUTER APPLICATIONS: CE0901 1/2 Credit 9-10-11-12

A semester course designed to improve basic skills in the areas of word processing, database management, spreadsheet applications, desktop publishing, multimedia, Internet usage, and integrated software applications. This class will focus on the use of the Google Suite applications.

ADVANCED COMPUTER APPLICATIONS: CE1100 1/2 Credit 9- 10-11-12

A semester course designed to offer students advanced skills in the areas of word processing, database management, spreadsheet applications, desktop publishing, multimedia, Internet usage, and integrated software applications. This advanced course will focus on Microsoft Office Suite applications and students will earn the Microsoft Office Specialist credential.

PREREQUISITE: Computer Applications

PERSONAL FINANCE: CE0903 1/2 Credit 10-11-12

This one-semester course presents essential knowledge and skills to make informed decisions about real-world financial issues. The course content is designed to help the learner make wise spending, saving, and credit decisions and to make effective use of income to achieve personal financial success.

INTRODUCTION TO BUSINESS CE0904

1/2 Credit 9-10-11

This course is designed to introduce students to how business works in today's society and to provide a foundation for other business courses. Content includes business functions such as entrepreneurship, marketing, and consumer issues regarding money and money management, banking system, and services. It also covers technology in the business world and the government's role in business. **NOTE: Seniors are not to enroll in this course unless they receive special approval by the Course Instructor.**

ACCOUNTING I CE1000 1 Credit 10-11-12

A one-year course designed to teach accounting principles as they relate to manual and computerized financial systems. Students will learn entry-level accounting skills for businesses organized as proprietorships, partnerships, and corporations. These skills will include payroll procedures and payroll taxes.

ACCOUNTING II: CE1103 1 Credit 11-12

This course is designed to help students acquire a more thorough, in-depth knowledge of accounting procedures and techniques utilized in solving business problems and making financial decisions. Students will develop skills in analyzing and interpreting financial information common to partnerships and corporations. This course is the second

level Accounting class and may be offered as articulated credit through MCC. *PREREQUISITE: Accounting I*

BUSINESS LAW: CE1101
1/2 Credit 11-12

A semester course designed to provide students with the knowledge and understanding of civil and criminal law. Students will study current cases happening in our country. Students will stage a mock trial.

INTRODUCTION TO WEB DESIGN CE1001
1/2 Credit 10-11-12

This course introduces students to basic web design using HTML and CSS. The course does not require any prior knowledge of HTML or Web Design. Throughout the course, students are introduced to planning and designing effective web pages, implementing web pages by writing HTML or CSS code, enhancing web pages with the use of page layout techniques, text formatting, and more.

PREREQUISITE: Computer Applications

ADVANCED WEB DESIGN CE1113
1/2 Credit 10-11-12

Students should have a firm working knowledge of HTML and CSS coding as well as Dreamweaver. Students will learn to apply beginning use of JavaScript, advanced HTML and CSS effectively to create interactive and dynamic websites, along with advanced use of Adobe Dreamweaver and other Adobe coding products in the Creative Cloud family.

PREREQUISITE: Introduction to Web Design.

BUSINESS TECHNOLOGY I: CE1002
1 Credit 10-11-12

A one-year course designed to introduce students to the basic skills in a business/office environment. Students will use spreadsheets, database applications, graphics, webpage development and multimedia applications. Students will develop skills relating to business etiquette, career exploration, and employment. Students are urged to be members of FBLA (Future Business Leaders of America).

PREREQUISITE: Computer Applications

BUSINESS TECHNOLOGY II: CE1200
1 Credit 12

A one-year course designed to prepare students for an entry-level business technology position or pursue a college degree in Business. Units include payroll, telephone, mail, personnel records, business software applications, and the career preparation process. Students

are urged to be members of FBLA (Future Business Leaders of America). Seniors enrolled in this class may enroll in the SBE program and work a part-time business-related job. *PREREQUISITE: Business Technology I*

SUPERVISED BUSINESS EXPERIENCE: CE1202
1-2 Credits 12

This is a work-study program for seniors whereby students earn credit working at teacher-approved job sites. This program is supervised by both the teacher-coordinator and employer. Students will receive a grade based on their job performance. The credit awarded for on-the-job training will be as follows: 10-19 hours of employment per week (1 SBE work release course, i.e 8th hour only), 1 credit per year; 20 and above hours of employment per week (2 SBE work release courses, i.e 4th & 8th hour), 2 credits per year.

PREREQUISITE: Concurrent enrollment in the Business Technology courses or Accounting courses - these courses must be held in separate periods from SBE.

INTRODUCTION TO MULTIMEDIA CE1114
1/2 Credit 10-12

This is a one-semester course that addresses the basic technological skills required of students to create effective electronic presentations for the companies employing them. The demand for multimedia knowledge and the ability to apply it will continue to expand as businesses utilize multimedia functions including audio and electronic presentations.

ADVANCED MULTIMEDIA CE1115
1/2 Credit 10-12

This is a one-semester course that addresses the advanced technological skills required of students to create effective electronic presentations for the companies employing them. The demand for multimedia knowledge and the ability to apply it will continue to expand as businesses utilize multimedia functions including audio and electronic presentations.

PREREQUISITE: Introduction to Multimedia



PRACTICAL ARTS MARKETING DEPARTMENT

The cooperative work-study program is a two-part course of study-classroom instruction (**Marketing I and/or II**) and on-the job experience (**Marketing Internship**). These two courses are taken together to give students supervised work experience in the career pathway of their choice. A senior may earn either two or three units of credit in the Marketing program. One unit of credit is earned for classroom instruction (**Marketing I or II**). **Marketing Internship** may be taken for either one or two units of credit during a student's senior year.

Grade	Course Number	Course Offerings	Credit	Course Type
10-12	CE1110	Entrepreneurship	0.5	Elective
10-12	CE1112	Marketing I	1.0	Elective
11-12	CE1116	Sports & Entertainment Marketing	0.5	Elective
11-12	CE1123	Advertising	0.5	Elective
11-12	CE1210	Marketing II	1.0	Elective – Articulated Credit
12	CE1211	Marketing Internship	1.0-2.0	Elective

ENTREPRENEURSHIP: CE1110 1/2 Credit 10-12

This is a one semester course that provides a background for the development and operation of a business starting with the role of the entrepreneur in our economy to the development of a business plan and the application of specific marketing skills and concepts within the business environment. *PREREQUISITE: Introduction to Business or Marketing I*

MARKETING I: CE1112 1 Credit 10-11-12

This is a one year course designed for students who are interested in a career in the field of marketing and management. This course includes instructional areas designed to provide an understanding of the fundamental marketing processes and an introduction to the American free enterprise system. *PREREQUISITE: Introduction to Business and membership in DECA is strongly recommended*

ADVERTISING: CE1123 1/2 Credit 11-12

An instructional program for students who are interested in a career in the field of advertising and promotion. Instruction will prepare students to understand basic marketing principles, consumer behavior, and the ability to identify the target market. Students will examine different advertising and promotional methods. Specific skills will help students to create, produce, and effectively evaluate different advertising and promotional strategies. *PREREQUISITE: Marketing I*

SPORTS & ENTERTAINMENT MARKETING CE1116 1/2 CREDIT 11-12

This course focuses on marketing and management functions and tasks that can be applied in amateur or professional sports and entertainment. Students will study economics, competition, free enterprise systems, and legal

issues pertaining to sports & entertainment industries. *PREREQUISITE: Marketing I*

MARKETING II: CE1210 1 Credit 11-12

This is a one year course of study that includes advanced instruction in the areas of selling, advertising, distribution, pricing, marketing research and business ownership. A variety of projects designed to help students apply material learned in class will be assigned. Seniors enrolled in this class may enroll in Marketing Internship and work a marketing related part-time job. Membership in DECA is strongly recommended. Articulated Credit may be offered through Metropolitan Community College. *PREREQUISITE: Marketing I*

MARKETING INTERNSHIP: CE1211 1-2 Credits 12

This class provides students on-the-job experience in the field of marketing. The marketing instructor will meet with the student's on-site work supervisor in order to coordinate instruction that benefits the student's career path. Enrollment is by permission of the instructor. Students are required to complete 10 hours of work per week of paid employment or 180 hours in a semester to earn .5 credits. Students are required to complete 20 hours of work per week of paid employment for 360 hours in a semester to earn 1 credit. *PREREQUISITE: Concurrent enrollment in Marketing II - must be taken in separate periods*



PRACTICAL ARTS FAMILY & CONSUMER SCIENCES

Every individual is a family member who must function in an increasingly complex society. The Family and Consumer Sciences curriculum is designed to improve the quality of life for individuals and families and in turn encompass the larger units of community, nation, and world. The student is given opportunities to develop strategies to meet the challenges of living and working in our diverse society.

<u>Grade</u>	<u>Course Number</u>	<u>Course Offerings</u>	<u>Credit</u>	<u>Course Type</u>
9-12	CE1049	Discovering FACS	0.5	Elective
9-12	CE1145	Family and Individual Health	0.5	Elective**
9-12	CE1041	Nutrition & Wellness	0.5	Elective
10-12	CE1053	International Foods	0.5	Elective
11-12	CE1050	Food Science	0.5	Elective
10-12	CE1043	ProStart I	1.0	Elective
10-12	CE1048	Apparel, Textiles, and Fashion	1.0	Elective
11-12	CE1148	Advanced Apparel, Textiles, and Fashion	1.0	Elective
12	CE1248	Fashion Design & Construction	0.5	Elective (Weighted/Dual Credit)
12	CE1249	Fashion Design & Merchandising	0.5	Elective (Weighted/Dual Credit)
10-12	CE1143	Child Development I	0.5	Elective
10-12	CE1144	Child Development II	0.5	Elective

**Family and Individual Health may be taken in place of PE0910 Health requirement

DISCOVERING FACS :

CE1049

1/2 Credit

9-12

This course introduces students to the skills necessary to manage individual and family resources such as food, clothing, housing, health, finances and family. Coursework includes the instructional areas designed to provide an understanding of the fundamentals of consumer science and human services careers.

FAMILY AND INDIVIDUAL HEALTH

CE1145

½ Credit

10-11-12

This course meets the needs of today's students and focuses on the promotion of personal and family health throughout the lifespan. It includes concepts in communicable diseases, family relations, substance abuse, nutrition, sports nutrition, fitness and other concerns pertaining to the development of personal and family health. Family/Individual standards are aligned to the National Health Standards, and fulfills the graduation requirement for Health.

NUTRITION AND WELLNESS:

CE1041

1/2 Credit

9-10-11-12

This course prepares individuals to understand the basic principles of nutrition; the relationship of nutrition to health and wellness; the selection, preparation, and care of food; meal management to meet family and individual food needs and patterns of living. Understanding and promoting nutritional knowledge, as well as application of related math and science skills.

INTERNATIONAL FOODS:

CE1053

1/2 Credit

9-12

This course is a general study of cooking and related culinary arts that may prepare individuals for a variety of jobs within the foodservice industry. Coursework includes sanitation and safety, food preparation, cooking techniques, equipment operation and maintenance.

Prerequisite: Nutrition & Wellness or Discovering FACS

FOOD SCIENCE

CE1050

½ Credit

11-12

This course prepares the student to use the scientific method to study food preparation. Coursework includes sanitation and safety, food preparation, cooking techniques, equipment operation, and maintenance.

PROSTART I:

CE1043

1 Credit

10-11-12

The ProStart program consists of a sequence of two courses and 400 mentored work hours in the industry. Each course is designed to prepare individuals in the pursuit of a career in the hospitality/food service industry. The program is a specific curriculum developed by the National Restaurant Association. ProStart I is an intensive course covering topics such as sanitation and safety, nutrition, kitchen basics, commercial equipment, foodservice costs, and other basic concepts. *Prerequisite: Nutrition & Wellness & International Foods*

APPAREL, TEXTILES, AND FASHION CE1048
1 Credit 10-12

This course is designed to help individuals understand the social, psychological and physiological aspects of clothing and textiles; the nature, acquisition, and use of clothing and textile products; the selection, construction, maintenance, and alteration of clothing and textile products, and effects of consumer choices on individuals, family, as well as the textile industry.

ADVANCED APPAREL, TEXTILES, AND FASHION
CE1148

1 Credit 10-12

This course is designed to extend the knowledge gained in Apparel, Textiles and Fashion. The advanced student explores fabric properties, recycling of clothing and textile items, and creative construction techniques including tailoring. *Prerequisite: Apparel, Textiles and Fashion*

FASHION DESIGN & CONSTRUCTION CE1248
0.5 Credits 12

This is a capstone course for students interested in Apparel & Fashion. It is an introductory college course with an emphasis on the construction of apparel goods using computerized equipment and software. Students will apply the elements and principles of design to basic garment components and fit. Students will create projects that exhibit creativity and quality workmanship.

This course is offered as dual credit through UCM.

Prerequisite: Advanced Apparel, Textiles, and Fashion

FASHION DESIGN & MERCHANDISING CE1249
0.5 Credits 12

Students will explore all segments of the fashion industry and identify careers within each area. An overview of fashion products from concept to consumer is covered with an emphasis on consumer demand and trend cycles for retail markets. This course is offered as dual credit through UCM.

Prerequisite: Advanced Apparel, Textiles, and Fashion

CHILD DEVELOPMENT I: CE1143
1/2 Credit 10-12

This course focuses on the intellectual, social, emotional and biological development of children. It includes instruction on parent-child relations, parenting practices, special needs of children, parental and environmental influences on child development, external support services, and related public policy issues.

CHILD DEVELOPMENT II CE1144
1/2 Credit 10-12

This course provides advanced study in child development and guidance, including the physical, social, and intellectual development of children. Actual experience in supervising children provides the opportunity to improve parenting skills, exploring careers related to child development, and identify general employment skills.

Prerequisite: Child Development I



PRACTICAL ARTS PROJECT LEAD THE WAY

Project Lead the Way (PLTW) is a nationally recognized engineering curriculum being offered through the Hickman Mills School District. The program is a four year sequence of courses which, when combined with traditional mathematics and science courses in high school, introduces students to the scope, rigor and discipline of engineering prior to entering college.

Grade	Course Number	Course Offerings	Credit	Course Type
9-12	CE0930	Introduction of Engineering Design (IED)	1.0	Elective
9-12	CE0931	Principles of Engineering (POE)	1.0	Elective
11-12	CE1030	Digital Electronics (DE)	1.0	Elective
11-12	CE1031	Civil Engineering and Architecture (CEA)	1.0	Elective
12	CE1173	Engineering Design and Development (EDD)	1.0	Elective
10-12	ND1102	PLTW Robotics	1.0	Elective
9	CE0975	Computer Science Essentials	1.0	Elective
10-12	CE1175	Computer Science Principles	1.0	Elective
11-12	CE1275	Computer Science Applications	1.0	Elective
10-12	CE1179	Cybersecurity	1.0	Elective
9	CE0932	Principles of Biomedical Science	1.0	Elective
10-12	CE1032	Human Body Systems	1.0	Elective
11-12	CE1132	Medical Interventions	1.0	Elective
12	CE1133	Biomedical Innovations	1.0	Elective

ENGINEERING:

INTRODUCTION TO ENGINEERING DESIGN (IED)

CE0930
9-12

1 Credit

This rigorous course is for students interested in engineering and architecture related fields. This course teaches problem-solving skills using an engineering design development process. Models of product solutions are created, analyzed and communicated using solid modeling computer design software. Technical reading and math skills are needed.

PRINCIPLES OF ENGINEERING (POE) **CE0931** **10-12**

This rigorous course helps students understand the field of engineering/engineering technology. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. The course also includes concerns about social and political consequences of technological change. Technical reading and math skills are needed. *PREREQUISITE: Students must have successfully completed Introduction to Engineering Design.*

DIGITAL ELECTRONICS (DE) **CE1030** **11-12**

This rigorous course is 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. Technical reading and math skills are needed. *PREREQUISITE: Successful completion of Introduction to Engineering Design and Principles of Engineering.*

CIVIL ENGINEERING AND ARCHITECTURE (CEA) **CE1031** **11-12**

This course involves a long-term project that develops a local property site. As students learn the various aspects of civil engineering and architecture, they apply what they learn to the design and development of this property. It is structured to enable all students to have a variety of experiences that provide an overview of both fields. Students work in teams, exploring hands-on projects and activities to learn the characteristics of civil engineering and architecture.

PREREQUISITE: Students must have successfully completed Introduction to Engineering Design and Principles of Engineering.

ENGINEERING DESIGN AND DEVELOPMENT (EDD) **CE1173** **12**

EDD is an engineering research course in which students work in teams to research, design and construct a solution to an open-ended engineering problem. Students apply principles developed in the four preceding courses and are guided by a community mentor. They must present

progress reports, submit a final written report and defend their solutions to a panel of outside reviewers at the end of the school year. This course is only offered at Summit Technology Academy.

PREREQUISITE: *Students must have successfully completed Introduction to Engineering Design, Principles of Engineering, and Civil Engineering and Architecture (or Digital Electronics).*

PLTW ROBOTICS ND1102 1 Credit 10-11-12

This course is designed for those students participating in PLTW Robotics competitions. Student groups will utilize hands-on, project based learning lessons to design and build robots to compete in local, state, and national competitions.

COMPUTER SCIENCE:

COMPUTER SCIENCE ESSENTIALS CE0975 1 CREDIT 9

This is the introductory course for the Computer Science pathway. Students explore computing in society, career paths, digital citizenship, and cybersecurity. Students will transfer the understanding of programming gained in App Inventor to learn introductory elements of text based programming in Python to create strategy games.

COMPUTER SCIENCE PRINCIPLES CE1175 1 Credit 10-11-12

CSE helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cyber-security, and simulation.

COMPUTER SCIENCE APPLICATIONS CE1275 1 Credit 10-11-12

Computer Science Applications focuses on further developing computational thinking skills through the medium of Android App development mobile platforms. The course utilizes industry standard tools such as Android Studio, Java, XML, and device emulators. This course aligns with the AP Computer Science A course.

CYBERSECURITY CE1179 1 Credit 10-12

Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.

BIOMEDICAL SCIENCES

PRINCIPLES OF BIOMEDICAL SCIENCE CE0932 1 Credit 9-12

Students investigate various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, and research processes. This course provides an overview of all the courses in the Biomedical Sciences program and lay the scientific foundation for subsequent courses.

HUMAN BODY SYSTEMS CE1032 1 Credit 10-12

In this second Biomedical Sciences course, students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis in the body. Exploring science in action, students build organs and tissues, use data acquisition software to monitor body functions such as muscle movement and reflexes, and take on the roles of biomedical professionals to solve real world medical cases.

MEDICAL INTERVENTIONS CE1132 1 Credit (Weighted) 11-12

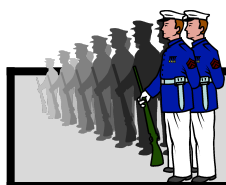
Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs start to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

PREREQUISITE: *Principles of Biomedical Science and Human Body Systems*

BIOMEDICAL INNOVATIONS CE1133 1 Credit (Weighted) 12

In this capstone course, students apply their knowledge and skills to answer questions or solve problems related to the biomedical sciences. Students design innovative solutions for the health challenges of the 21st century as they work through progressively challenging open-ended problems addressing topics in medicine.

PREREQUISITE: *Medical Interventions*



PRACTICAL ARTS

Marine Corps JROTC Leadership Education

The mission of the Marine Corps Junior Reserve Officer Training Corps Leadership Education Program (or simply “MCJROTC”) is *“To develop character and citizenship in the youth of America”*. The program provides opportunities for individual student growth through a four year curriculum that emphasizes student leadership, citizenship, personal growth and responsibility, and public service and career exploration. Students do not incur any military obligation upon completion of any portion or all of the program.

Character building is accomplished through lessons including but not limited to leadership traits, principles and styles, ethics, morals and values, respect for self and others, discipline and self-discipline, and general military subjects. Citizenship lessons include but are not limited to patriotism, volunteerism/community service, rights, responsibilities and privileges, and American government. Students are afforded the opportunity to enhance classroom instruction via voluntary co-curricular activities after school (competitive academic, athletic, drill, and marksmanship teams and a week long leadership camp during the summer).

Prerequisites for all enrolled students are: 1) Approval of the Senior Marine Instructor; 2) students must acceptance of the requirement to wear Marine Corps uniforms at least once per week for grade while adhering to Marine Corps personal grooming standards while in uniform (i.e., a certain haircut style for males and hairstyles for females).

These courses may substitute for 1.0 PE credit on a one time basis.

LEADERSHIP EDUCATION I: MS0900 **1/2 - 1 Credit 9-10-11-12**

This level is designed for freshmen but sophomores to seniors may also enroll. It lays the foundation for cadets who wish to continue in the program in subsequent years. The foundational lesson is on the 14 Leadership Traits but also includes basic lessons (not all inclusive) in the proper wearing of the Marine Corps uniforms and personal grooming, basic squad drill (marching), physical training, health and wellness, public speaking, volunteerism/community service, MCJROTC organization and military history.

LEADERSHIP EDUCATION II: MS1000 **1/2-1 Credit 10-11-12**

Depending on what grade level a cadet completed the LE-I, sophomores through seniors may enroll. While reinforcing the learning from the LE-I level, the foundational lesson for this level is on the 11 Leadership Principles. Cadets at this level can be expected to be assigned small unit leadership roles where they will now start applying the learning from their first year. As such, they will have more opportunities to practice their problem solving and critical thinking skills as they interact with peers and cadets junior and senior to them in position and or rank. More advanced lessons in citizenship, personal growth and responsibilities and general military subjects are introduced.

ADDITIONAL PREREQUISITE: *Successful completion of both semesters of the LE-I level.*

LEADERSHIP EDUCATION III: MS1100

Depending upon what grade level a cadet entered and completed the first two levels, only juniors and seniors may enroll. While reinforcing the learning from the previous two levels, the foundational lesson for this level is the Three Marine Corps Leadership Styles. Depending upon their progression from previous years and the number of LE-IV cadets enrolled, LE-III cadets can expect to assume some of the cadet command and staff positions as senior ranking cadet staff non-commissioned officers and cadet officers where the ability for critical thinking and problem solving are vitally important. Other lessons include the mission and organization of the Marine Corps, economic and political systems of government and American government.

ADDITIONAL PREREQUISITE: *Successful completion of both semesters of the LE-II level.*

LEADERSHIP EDUCATION IV: MS1200 **1/2 - 1 Credit 12**

Since cadets must have successfully completed the previous three levels, this course is only open to seniors. These cadets will be spread among all other classes that have cadets who are juniors to them level as their primary mission is to provide student upper level leadership, mentorship and student teaching. Depending upon their progression in previous levels, LE-IV cadets can expect to serve in the highest ranking staff non-commissioned officers and officers. The ability to complete special projects, conduct research, leading physical training events and conducting uniform inspection with minimal instructor supervision, confident public speaking and ownership of their learning is critically important.

ADDITIONAL PREREQUISITE: *Successful completion of both semesters of the LE-III level.*



NON-DEPARTMENTAL COURSES

SKILLED TRADES: 1 credit

**ND0906
9-10-11**

Skilled Trades is an introductory class to introduce students to the trade of Carpentry. Students will learn about careers in construction trades as well as work on hands-on projects in a shop-like environment. This class is a feeder course for 11th/12th grade Herndon Career Center programs. *This is a practical arts credit.*

EARLY COLLEGE ACADEMY 1.5 Credits/Semester

**ND1114
11-12**

This program is open by application only for college bound juniors and seniors who want to work towards their Associate's Degree while in high school. Approved students take course half the day at MCC-Longview and earn 7-9 hours of college credit, paid for by the school district.

CORE 1.5 Credits/Semester

**ND1500
11-12**

Creating Opportunities for Ruskin Eagles (CORE) is the HMC-1 microschool located at Burke Academy. The CORE program provides opportunities for students to work on client connected projects and entrepreneurial experiences. Students will gain critical thinking, collaboration, creativity, and communication skills by working on teams on real world projects. This is a half day program. Credits earned vary by projects completed.

SKC FIRE ACADEMY 1.5 Credits/Semester

**PA1202
11-12**

The SKC Fire Academy is hosted by Center High School and open to Ruskin students. Students earn 3 college credit hours and their Hazmat certification. This course is for students interested in pursuing a career in public safety (EMT/Fire/Police). Students who successfully complete this program are eligible for enrollment at MCC Blue River's Public Safety certification program.

INTRODUCTION TO TEACHING: 1/2 Credit

**ND1101
10-11-12**

This course provides students with an introduction to the field of teaching. Students will learn about working with adolescents, the education system, lesson planning, and other responsibilities of teaching. Students will have the opportunity to observe classrooms in the district as well as visit local teaching colleges. Students who successfully

complete this course and who are interested in the teaching field should plan to enroll in Teaching Methods next.

TEACHING METHODS: 1 Credit (Weighted)

**ND1401
10-11-12**

This course is taught in conjunction with Avila University. It is an introduction to teaching including methods and practical experience. Students can earn up to 6 college credit hours upon successful completion of this course.

CADET TEACHING: ½ Credit

**ND1103
11-12**

This course is designed to allow students to explore the career of teaching through a broad spectrum of theoretical and practical experiences. Students will be assigned to HMC-1 elementary and middle school buildings for practical experiences. This course may be taken up to two semesters. **NOTE: Students must have transportation in order to take this course.**

CERNER TECH PATHWAYS 1.5 Credits (Weighted)

**ND1108
11-12**

This course is taught on the Cerner Innovations campus. Semester one is an introduction to computer science and semester two is an internship opportunity. This course is for students interested in health fields, computer science, technology, or math.

LEARN & SERVE ½ Credit

**ND1201
12**

Students will participate in a service-learning activity centered on the needs, interests, and talents of the students. Students will develop their interpersonal skills while practicing their problem-solving skills. Students are responsible for arranging their service learning provider. Students have to volunteer a set amount of time, write a journal, attend reflection sessions and meet deadlines.

COLLEGE SUMMIT ½ Credit

**ND0901
9**

College Summit focuses students on planning for and financing their future after high school. Students will learn about career options, financial aid, and post secondary opportunities. By senior year track and achieve essential milestones, like submitting their college and financial aid applications.

AVID**1 Credit****9**

AVID stands for Advancement via Individual Determination. The AVID program is an in school academic support program that is aimed at preparing students for college eligibility and success. *This is an elective credit.*

The following courses may be requested at teacher/counselor/administrator discretion; however, may not be self-selected by students:

READING LAB:**CA0902****1 Credit****9-10-11-12**

This course is designed for students who need extra support with the essential performance skills needed to be successful in Communication Arts. Students taking this course will enhance literacy skills such as phonemic awareness, reading, writing, listening and speaking through a broad spectrum of materials. Students will also be involved in book conferences/discussions and various projects, both oral and written, related to the understanding and analysis of the materials.

CAREER ADVISORY PROGRAM**No Credit****9-10-11-12**

The Career Advisory Program is a course that meets once a week for 35 minutes. The specific curriculums are customized to meet the needs of each grade level. The primary purpose of the CAP is to build relationships among students, parents, and educators. The collaborative partnership will assist in meeting the needs of each student.

TRANSITIONS**ND1010****1 Credit****10-12**

In accordance with Missouri's Special Education Compliance, this course is designed within an outcome-based process that promotes movement from school to post-school activities, including post-secondary education. The course will be based on the individual needs of students taking into account the student's preference and interests; and includes related services, community experiences, development of employment, exposure to vocational opportunities, development of post-school adult living objectives, and acquisition of daily living skills.

PLATO CREDIT RECOVERY**ND1310****1/2 Credit****10-12**

This course is part of an online credit recovery program. Students complete required coursework via the PLATO learning management system.

Off Campus Programming

HERNDON CAREER CENTER

Grade	Course Offerings	Credit
11-12	Advertising and Graphic Design	3.0
11	Auto Collision and Repair Technology I and II	3.0
11	Automotive Technology I and II	3.0
11-12	Construction Technology	3.0
12	Cosmetology	8.0
12	Culinary Arts	3.0
11	Diesel, Industrial & Agricultural Mechanics I and II	3.0
11-12	Emergency Medical Technician	3.0
12	Foundations of Nursing	3.0
11-12	Law Enforcement & Police Science	3.0
11	Welding/Metal Fabrication I and II	3.0

SUMMIT TECHNOLOGY ACADEMY

Grade	Course Offerings	Credit
11-12	Digital Electronics (DE)	1.0
11-12	Computer Integrated Manufacturing	1.5
11-12	Aerospace Engineering	1.5
12	Engineering Design and Development (EDD)	1.0
11-12	Cyber Security	1.5
11-12	Network Engineering I & II	1.5
12	Internship in MIC	3.0
11-12	Computer Software Development	3.0
11-12	Digital Media Technology	3.0
11-12	Medical Interventions/Biomedical Innovation	1.5
12	Professional Nursing	3.0
11-12	Allied Health Academy	3.0

12	Teacher Educator Academy	3.0
11-12	Hospitality Tourism Management Program I & II	3.0
12	Summit International Studies Academy	3.0
11-12	Executive Finance and Fintech	3.0
12	Internship in STEM Careers (Cerner Scholars)	1.5

METROPOLITAN COMMUNITY COLLEGE

Grade	Course Offerings	Credit
11-12	Engineering Technology	1.5
11-12	Industrial Technology	1.5
11-12	Early College Academy	1.5

SOUTHLAND CAPS PROGRAM

Grade	Course Offerings	Credit
11-12	Education Exploration	3.0
11-12	Animal Health Sciences	3.0
11-12	Technology Solutions	3.0
11-12	Environmental Planning & Awareness	3.0

CAREER ACADEMIES

Grade	Course Offerings	Credit
11-12	Certified Nursing Assistant	1.5
11-12	Pharmacy Technician	1.5
11-12	Pathways to Graphic Design	1.5
11-12	Pathways to Technology (Cerner)	1.5
11-12	Social Justice Pathway	1.0

HERNDON CAREER CENTER COURSE DESCRIPTIONS 2017-2018

HERNDON EAST CAMPUS: 11501 E. 350 Highway, Raytown, MO 64138 PHONE: (816) 268-7140

**HERNDON CAREER CENTER COURSES ARE OFFERED YEAR-LONG IN DAILY 3 HOUR BLOCKS AT THE
HERNDON CAREER CENTER IN RAYTOWN**

For more complete information see the Herndon Career Center web site <http://www.herndoncareercenter.com>

Grade	Course Number	Course Offerings	Credit	Course Type
11-12	CE1150	Advertising and Graphic Design	3.0	Elective
11	CE1151/CE1254	Auto Collision and Repair Technology I and II	3.0	Elective
11	CE1152/CE1255	Automotive Technology I and II	3.0	Elective
11-12	CE1153	Construction Technology		
12	CE1250	Cosmetology	8.0	Elective
12	CE1251	Culinary Arts	3.0	Elective
11	CE1154/CE1256	Diesel, Industrial & Agricultural Mechanics I and II	3.0	Elective
11-12		Emergency Medical Technician	3.0	Elective
12	CE1252	Foundations of Nursing	3.0	Elective
11-12	CE1161	Law Enforcement & Police Science	3.0	Elective
11	CE1160/CE1260	Welding/Metal Fabrication I and II	3.0	Elective
11-12	CE1163	Intro to Physical Therapy & Sports Medicine	3.0	Elective

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; reading, writing, and math at the 10th grade level; at least one semester of keyboarding, and/or computer applications coursework and a minimum of 2 semesters of art

Recommended: Exposure to graphic design. The purpose of this course is to prepare students to continue their education in college. This program is organized into two one-year programs.

Course Description:

- **1st Year Curriculum** First year curriculum consists of an in-depth study and application of Adobe Creative Suite, specifically Adobe In-Design, Illustrator and Photoshop. 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.
- Math skills will include fractions, ratios, fraction to decimal conversions, proportional scaling and measurement reading.
- **College Credit:** An articulation agreement exists with Metropolitan Community College for up to 6 hours of college credit.

2nd Year Prerequisite: Minimum 85% individual project grade in 2nd semester of Advertising & Graphic Design, 93% attendance in 1st year. Students must have teacher recommendation.

Course Description:

- **2nd Year Curriculum** 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
- **College Credit:** An articulation agreement exists with the Metropolitan Community College and the Art Institute of America for up to 8 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; reading, writing, and math at 10th grade level; strong mechanical aptitude

Recommended: Industrial arts, 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. Emphasis is placed on classroom instruction during the first year of the program while students work toward industry-recognized certifications from the Inter-Industry on Auto Collision Repair (I-CAR), Pittsburg Paint and Glass (PPG), and Audatex Estimating System (ADP). Lab experiences develop personal pride and craftsmanship using hand tools, power tools, welding and refinishing equipment.

College Credit: Agreements with the Metropolitan Community Colleges enable qualified students to earn up to 26 hours of college credit during the two-year Auto Collision Technology Program.

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 spend the majority of their time in the lab mastering the technical skills necessary to repair customer-owned, late- model vehicles with collision damage.

College Credit: Agreements with the Metropolitan Community Colleges enable qualified students to earn up to 26 hours of college credit during the two-year Auto Collision Technology Program.

--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.

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. Approximately 75% of the students' time will be spent repairing customer-owned vehicles with special emphasis in the use of test equipment for the purpose of diagnosing engine malfunction. Classroom instruction will involve the introduction of technical information pertaining to the power plant, power train, automotive electronics, transmissions, and automotive air conditioning.

--Industrial Internship

C/W

HVAC/INDUSTRIAL MAINTENANCE I & II

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; math, reading, & writing at 10th grade level

Recommended: Successful completion of Algebra II with a C or better. Students wanting to enroll in the 2nd year will need to successfully complete year one with a C or better and 90% attendance.

Course Description: The HVAC/Industrial Maintenance Technician 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. . Basic training will also cover hydraulics, pneumatics, print/schematic reading, programmable logic controls (PLC's), operation and maintenance practices on various types of industry related equipment and systems.

A hands-on approach, accompanied with classroom instruction 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.

C/W

CONSTRUCTION TECHNOLOGY*

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; reading, writing, and math at the 10th grade level

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

Course Description: This is a one year course that provides 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. The second-year program option may be offered to a limited number of students who meet the following criteria: Must meet the minimum Centers of Excellence Criteria of at least a B+ (90%) grade and 93% attendance. (HCC instructor must approve a student's plan prior to actual enrollment for 2nd year.)

College Credit: An agreement with the Carpenters Apprenticeship Program enables students who meet specified requirements to receive apprenticeship hours for skills learned at HCC. Articulated college credit up to 12 hours are also available.

--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; reading, writing and math at the 10th grade level. 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.

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.

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 will also be other licensing fees for instruction during the year. 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). Students are also expected to work well in a team environment. Students in this program will begin the two weeks prior to the RQS first day of school in order to earn enough training hours to take the state board exam. **Students do not have to have 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; reading and writing at the 10th grade level; Algebra I with a C grade or better. Applicants must successfully complete the Year-One ProStart curriculum if it is available at their high school or the equivalent food preparation curriculum. Applicants from high schools without ProStart curriculum available must complete an advanced foods and nutrition class with a min. B grade

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

Course Description: The ideal student must have a solid foundation in introductory food classes and a desire to learn about the hospitality industry. The classes can be but not limited to baking and food science, nutrition classes, culinary prep, and international foods classes. These are the classes that will help the future chef transition into the capstone classes at the Herndon Career Center.

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 know as articulation agreements, such as Johnson County Community College, Johnson and Wales, and Sullivan University

The ideal candidate will need to meet a criterion of 90% attendance, 2.0 GPA, be on track with all credits to graduate high school.

Expectations: Students will order a uniform to be worn 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 \$110 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, up to 12 credit hours from Sullivan University, or 7 hours from Johnson and Wales.

--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.

College Credit: Students can earn up to three hours of college credit at State Technical College.

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 designed to prepare students as entry-level technicians working on heavy construction equipment, trucks, industrial plant vehicles, and agricultural equipment.

College Credit: Students can earn up to 12 hours of college credit at State Technical College.

--Industrial Internship

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:

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. 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.).**

Students who successfully pass their CNA as a Junior, may elect to enroll in the course a second year to focus on Certified Med Technician certification. Enrollment is limited to two second-year students per section. Students must meet eligibility requirements including 95% attendance at HCC (no unexcused), cumulative HCC grade of 90% or higher, and instructor recommendation.

C/W

INTRO TO PHYSICAL THERAPY & SPORTS MEDICINE*

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, Chemistry or Principles of Biomedical Science with a C or better; reading, writing, & math at 10th grade level.

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.

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 some of man's worst crime scenes. 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. 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 committed by our fellow man. 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 the crimes of man. The atmosphere of this class is similar to a mini-police academy. Students will be expected to stand when an adult enters the classroom; they will participate in Roll Call and the Pledge each day. They will be expected to participate in Drill Procedures, carry out some basic police procedures.

A second year program is available by instructor recommendation. Second year students will be expected to assist the instructor as needed with drills, simulations, and providing leadership. Second year students will also be expected to experience off-site learning opportunities which will require transportation.

A uniform style polo shirt will be issued to students. Students will be expected to purchase a pair of khaki style pants and black leather tennis shoes or boots.

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 and mathematics. Safety, work ethic and employability skills are emphasized at all times. Expectations: 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.

American Welding Society Qualified Welder certification: All Herndon Welding students are eligible to obtain this certification in several areas based on instructor evaluation of student skill level. Currently HCC is offering these certifications at no cost to the student (normally \$150 - \$500)!

Other Qualifications Available: Students will have an opportunity to complete and receive a 10 Hour OSHA training and card (any absences during training cannot be made up and students will not receive the OSHA card). All senior students will take the ACT Work Skills test.

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. There is also an option as a second year student to attend all day as an enhancement of the welding skills. Students wanting to explore this option will discuss with the instructor the requirements necessary to become an all-day student along with expectations required with the enhanced training. Not ALL students will be eligible for this option. **Safety, work ethic, employability skills, quality of work and pride in workmanship are emphasized at all times.**

Expectations: Students considering a career in welding should plan to purchase their own welding tools and supplies for use in the program. The cost of these items is approximately \$150. Additional expectations are noted in Welding/Metal Fabrication I above.

--Industrial Internship

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 COURSE DESCRIPTIONS 2017-2018

SUMMIT TECHNOLOGY ACADEMY; 777 NW Blue Pkwy Suite 3090 Lee's Summit, Mo. 64086 PHONE (816) 524-3366

For more complete information see our web site www.sta.lsr7.org

Grade	Course Number	Course Offerings	Credit	Course Type
11-12	CE1034	Digital Electronics (DE)	1.0	Elective
11-12	CE1286	Computer Integrated Manufacturing	1.5	Elective
11-12		Aerospace Engineering	1.5	Elective
12	CE1173	Engineering Design and Development (EDD)	1.0	Elective
11-12	CE1176	Cyber Security	1.5	Elective
11-12	CE1177	Network Engineering I & II	1.5	Elective
12		Internship in MIC	3.0	Elective
11-12	CE1104	Computer Software Development	3.0	Elective
11-12	CE1285	Digital Media Technology	3.0	Elective
11-12	CE1180	Medical Interventions/Biomedical Innovation	1.5	Elective
12	CE1271	Professional Nursing	3.0	Elective
11-12	CE1272	Allied Health Academy	3.0	
12		Teacher Educator Academy	3.0	Elective
11-12		Hospitality Tourism Management Program I & II	3.0	Elective
12	CE1273	Summit International Studies Academy	3.0	Elective
11-12		Executive Finance and Fintech	3.0	Elective
12	CE1266	Internship in STEM Careers (Cerner Scholars)	1.5	Elective

DIGITAL ELECTRONICS PLTW

Fall semester AM & PM

Grade: 11-12 Credits: 1.5 units

Dual Credit: UCM ET 1026, ET 1050 (8 hrs credit for eligible students)

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

Recommended: Geometry, Internet access outside of class is highly recommended.

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

Course Description: This is a course in applied logic that gives students the opportunity to learn how computers/logic circuits think and control the world around us. Computer simulation software is used 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, which includes robot applications.

COMPUTER INTEGRATED MANUFACTURING PLTW

Spring semester AM & PM

Grade: 11-12 Credits: 1.5 units

Dual Credit: UCM ENGT 1012 (2 hrs credit)

PREREQUISITE: GPA: 2.5 cumulative or better; Attendance 90% or better; Math: Algebra I.

Recommended: Geometry, Internet access outside of class

Course Description: This course is designed to expose students to the fundamentals of computerized manufacturing technology. The course is built around

several key concepts: Computer Modeling-using a three dimensional, solid modeling software package with mass property analysis. CNC Equipment-understanding the machine tools and its operating and programming aspects. CAM Software-converting computer generated geometry into a program to drive CNC machine tools. Robotics-using a robot for materials handling and assembly operations. Flexible Manufacturing Systems-working in teams to design manufacturing work-cells and table top factory simulations.

AEROSPACE ENGINEERING

Grade 11-12 Credits: 1.5

Prerequisite for PLTW Member Schools: Introduction to Engineering Design, Principles of Engineering;

Recommended: Reading/Writing: 10th grade level; Geometry (B or better), Algebra II and Physics (concurrently or passed with a B or better)

Course Description: 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. This course is part of the PLTW Engineering curriculum. 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 model rockets, gliders, airfoils, robots, wind turbines, and fiberglass composite samples. Students will also fly a plane in a flight simulator program, complete challenges with their robot, and use high-altitude ballooning to understand

atmospheric conditions and characteristics. 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.

ENGINEERING DESIGN AND DEVELOPMENT PLTW

Grade: 12

Credits: 3 units, 1.5 Fall Semester, 1.5 Spring Semester

Dual Credit: CE/ME 111, University of Missouri-Kansas City, School of Computing & Engineering.

Prerequisite: GPA: 2.5 cumulative or better; Attendance: 90% or better; Math: Algebra II B or better. Other requirements: Completion of Digital Electronics with C or better, Principles of Engineering or high school Physics with a B or better.

Prerequisite for PLTW Member Schools: Introduction to Engineering Design, Principles of Engineering, and one of the following courses: Digital Electronics, Computer Integrated Manufacturing or Civil

Engineering/Architecture Recommended: Pre-Calculus (completed or concurrent enrolment)

Course Description: This is a full year engineering research course in which students work on two major engineering projects as well as a research topic during the year. **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 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. **Spring Semester** the Engineering Field Experience (EFE) course requires that students (AM section only) travel two days per week to Lee's Summit City Hall, Public Works Engineering Department. The engineering staff at HDR travels to STA on two days per week. It is the goal of these organizations to provide students with real on-going or planned infrastructure (roads, traffic, waste-water conveyance, rainwater runoff, etc.) projects. Students will learn the fundamental structures, fluid statics, and dynamics which will be applied directly to the projects at LSPW and HDR.

NETWORK ENGINEERING I & II

Grade: 11-12

Credits: 1.5 units

Dual Credit: UCM Net 1060, 1061, 2060, and 2061 (3 hrs credit each course for eligible students) or State-wide Articulated Credit

Prerequisite: GPA: 2.5 cumulative or better; Attendance: 90% or better; Math: Algebra I, B- or better; Reading/Writing: 10th grade level; Other requirement: Keyboarding, minimum 30 WPM. Outside class internet access is required.

Recommended: Computer Hardware and Operating Systems I (offered traditional or through R7 Online)

Fall Semester: The course introduces the architecture, structure, functions, components and models of the Internet and other computer networks. It uses the OSI and TCP/IP layered models to examine the roles of protocols and services. This includes the principles and structure of IP addressing, LAN and WAN specifications, and network management which provide a foundation for the course. Hands on and simulation based activities in this course assist with the configuration, operation, and troubleshooting of routers and switches in a small to medium sized internetwork. This course helps the student prepare for the Cisco Certified Entry Network Technician certification exam.

Spring Semester 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 helps the student prepare for the Cisco Certified Network Associate certification exam.

CYBER SECURITY

Grade: 12

1.5 credits

Course Description: This course teaches students the skills needed to obtain entry-level security specialist jobs. It provides a hands-on introduction to network security. Students in the course will examine, design and implement security rules and policies that govern corporate networks. This course helps the student prepare for the Security+ certification exam.

INTERNSHIP IN MIC

Grade: 12 Credits: 3 units, 1.5 Fall Semester, 1.5 Spring Semester

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.

SOFTWARE DEVELOPMENT

Grade: 11-12 Credits: 3 units, 1.5 Fall Semester, 1.5 Spring Semester

Dual Credit: MCC CSIS 123, 222, 223 (available to eligible students)

Prerequisite: GPA: 2.5 cumulative or better; Attendance: 90% or better; Math: Algebra II, B- or better or previous programming knowledge; Reading/Writing: 10th grade or higher; Home internet access required; keyboarding minimum 30 WPM. MCC requires COMPASS placement into Math 110+ or equivalent ACT score

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

Fall Semester: This course is the C++ programming language. The student will focus on structured programming techniques, proper program design and object-oriented programming concepts and skills. Topics include basic object-oriented programming, events, logic structures and simple input/output techniques.

Spring Semester: Using the Java programming language, the student will focus on structured programming techniques, proper program design and object-oriented programming concepts and skills.

DIGITAL MEDIA TECHNOLOGY

Grade: 11-12

Credit: 3 units, 1.5 Fall Semester, 1.5 Spring Semester

PREREQUISITE: GPA: 2.0 cumulative or better;

Attendance: 90% or better; Math: Algebra I, C or better;

Reading/Writing: 10th grade level; one credit in Fine Arts

Recommended: Computer Applications or Programming; proficiency in keyboarding

The Entertainment Media Technology program at Summit Technology Academy gives students an opportunity to explore and prepare for careers in the entertainment and media communications industries. Students will focus on audio production technologies including sound generation, studio recording and live sound reinforcement. They will work in teams to integrate music, graphics and video technologies in entrepreneurial projects for their schools and/or communities.

MEDICAL INTERVENTIONS/BIOMEDICAL INNOVATION

Grade: 11-12

Credit: 3 units, 1.5 Fall Semester, 1.5 Spring Semester

Dual Credit: Bio 1 150 (2 credit hours) Metropolitan Community College (for eligible students)*

PREREQUISITE: GPA: 2.0 cumulative or better; Attendance: 90% or better; PLTW Principles of Biomedical Science and Human Body Systems; or Anatomy-Physiology, and Chemistry; Students will have a background check and a TB test

Recommended: Principles of Biomedical Sciences, Human Body systems, and Computer Applications

Medical Interventions™ Students investigate the variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the lives of a fictitious family. The course is a “How-To” manual for maintaining overall health and homeostasis in the body as students explore how to prevent and fight infection, how to screen and evaluate the code in human DNA, how to prevent, diagnose and treat cancer, and how to prevail when the organs of the body begin to fail. Students are exposed to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

Biomedical Innovation™ In this capstone course students design and conduct experiments related to the diagnosis, treatment, and prevention of disease or illness. They apply

their knowledge and skills to solve problems related to Bio-Medical science. They may work with a mentor or advisor from a university, hospital, physician’s office, or industry as they complete their work. Students are expected to present the results of their work to an adult audience, which may include representatives from the local healthcare or business community, or partnership team.

PRE-PROFESSIONAL NURSING

Grade: 12

Credits: 3 units, 1.5 Fall Semester, 1.5 Spring Semester

Dual Credit: MCC BIO 150 (2 credit hours for eligible students); UCM NUR 1700 2070, and NUR 2000 (4 hours credit for eligible students)

PREREQUISITE: GPA: 2.5 cumulative or better; Attendance: 90% or better; Math: Algebra I, C or better; Reading/Writing: 10th grade level; Biology and Chemistry, C or better; background check

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 collegiate registered nursing program. Students will learn through classroom instruction and practice in a clinical skills lab. Major units of study include nursing history and career exploration, pharmaceutical math, CPR/First Aid, nursing skills, and medical terminology. The course will introduce students to the nursing process, nursing documentation, effective communication skills and medical ethics. Students will learn and use APA style in the production of a research paper. Dual college credit options are subject to change based on instructor qualifications and college requirements. Students must provide their own transportation for clinical experiences.

TEACHER EDUCATOR ACADEMY

Grade: 12 Credit: 1.5 units

Dual Credit: UCM EDFL 2100 Introduction to the Teaching Profession & EDFLDX 2150 Introduction to Field Experience (3 hours credit for eligible students)

PREREQUISITE: GPA: 2.5 cumulative or better; Attendance: 95% or better; Math: Algebra I, C or better; Reading/Writing: 10th grade level; Background Check

This class is designed for students who are seriously considering the teaching profession. **Each student is assigned to a district school within the high school attendance boundaries.** Cadets keep daily logs, weekly journals, prepare and present a lesson(s) and work closely with students of the assigned supervising teacher. Students will demonstrate good moral character, good work habits, responsibility, punctuality and organizational skills. **Student must provide their own transportation.**

PRE-ALLIED HEALTH ACADEMY

Grade 11-12 Credit: 1.5 units

Dual Credit: MCC BIOL 150 Medical Terminology & ALHT 100 Introduction to Health Care Careers (2 hours credit each course)

Prerequisite: GPA: 2.5 cumulative or better; Attendance: 90% or better; COMPASS placement into Math 110+, English 101, and no reading recommendation or equivalent ACT scores.

Other requirements: Algebra I, Biology or Chemistry, with a C or better Recommended: Anatomy/Physiology; Psychology

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 Dental Assisting; Health Information Technology; Occupational Therapy/Occupational Therapy Assistant; Paramedic/EMT; Physical Therapy/Physical Therapy Assistant; Radiologic Technology and Respiratory Care, Surgical Technology, Nursing, Polysomnography, Chiropractic, Athletic Training, Laboratory, Pharmacy, and other allied health career fields throughout the year.. In addition, students will have opportunities to gain industry credentials such as Basic Life Support CPR training for Healthcare Providers and HIPPA credentials. **Students will have to provide transportation periodically during the year in order to accommodate outside lab experiences.**

HOSPITALITY & TOURISM MANAGEMENT I & II Fall & Spring Semesters

Grade: 12

Credit: 3 Units

PREREQUISITE: GPA 2.5, 90% or better attendance

Recommended: Foods I/Culinary Foundations

HTMP introduced the hospitality and tourism industry as well as prepares stuents for entry level jobs in the

hospitality and tourism industry. Students receive work experience and are also eligible to earn various certifications in the industry.

SUMMIT INTERNATIONAL STUDIES ACADEMY Fall & Spring Semester PM only

Grade: 11-12

Credit: 3 units, 1.5 Fall semester, 1.5 Spring Semester

PREREQUISITE: GPA: 2.5 cumulative or better, Attendance: 90% or better; Students must have completed, or be enrolled in a level II Modern Language course

Recommended: Computer Applications, Business, and Economics World History

Summit International Studies Academy (SISA) provides students with an in-depth exposure to the major regions and languages of the world. Students will work with industry-standard technology and train members of the community in world cultures. SISA is a long-term corporate simulation, which means that the classroom is run like a business environment as students become active intercultural consultants within the community. Students will also operate in a collaborative environment, utilizing student teams to guide the curriculum. Students will be expected to exhibit a high level of responsibility including professional conduct and certain dress codes. Students will work together to direct their own learning. Students will interview for teams, bringing their unique skills and interests to the team, and will receive additional training in economics and political science that they will use to analyze the current global situation.

MCC – Business & Technology Campus

COURSE DESCRIPTIONS 2017-2018

Students interested in earning college credits while attending high school may attend the MCC – Business & Technology Campus.

ENGINEERING TECHNOLOGY

Grade: 11-12

Credit: Varies

Engineering technicians work hand-in-hand with engineers, industrial designers, and production specialists to design, create and manufacture almost anything you can imagine. A wide variety of products are brought to life by technology teams, including aircraft, automobiles, personal electronics, and even power plants that run entire cities. This program will give you solid foundational skills in computer-aided drafting and design (CADD), parametric modeling, prototyping and residential design. **If you complete both years of the program, you will earn 15**

college credits toward various degrees in MCC's Engineering Technology program.

INDUSTRIAL TECHNOLOGY

Grade: 11-12

Credit: Varies

Students learn how to install, test, repair, and adjust, electrical machinery and electrical control equipment to prevent problems that could cost manufacturers millions of dollars in lost production time. Students can earn up to 20 college credits towards various degrees in this program.

SOUTHLAND CAPS PROGRAM

COURSE DESCRIPTIONS

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

W/DC

ANIMAL HEALTH SCIENCE

Location: Kansas City Zoo

Grade 11-12

3 Units - 2 Semesters

3 Hours Daily, AM/PM Sections

Prerequisite: None

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. C or better recommended in Biology.

Course Description: This course is designed for students who have an interest in the Animal Health field. This career education course will allow students an opportunity to discover and explore 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 for students. Students should be prepared to work 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. Students have the opportunity to earn college credit by dual enrollment through Northwest Missouri State University. (Tuition cost is determined by the University.)

C/W/DC
BUSINESS INNOVATION & CREATION
Location: TBD

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

Prerequisite: None

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. Classroom location will be determined prior to the start of the school year. Students will need to provide their own transportation. Students have the opportunity to earn college credit by dual enrollment through Northwest Missouri State University. (Tuition cost is determined by the University.)

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 program to be determined. Transportation is required.

Course Fee: \$10 Educators Rising membership fee.

W/DC
TECHNOLOGY SOLUTIONS
Location: TBD

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

Prerequisite: None

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 career exploration course is designed for students who have an interest in the Information-Technology industry. This course will allow students an opportunity to discover and explore a variety of career options in the technology space. Students will have the opportunity to engage with professionals about computer networking, computer information systems and software development, website and app creation, 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 collaborate with professionals on real-world technology based projects. Students will need their own transportation. Students have the opportunity to earn college credit by dual enrollment through Northwest Missouri State University or Kansas

University-Edwards Campus. (Tuition cost is determined by the University.) Students may participate in Southland CAPS a second year if they attain a grade of B or better and maintain a 90% attendance rate in their first year in Southland CAPS.

W/DC

TURF MANAGEMENT & HORTICULTURE

Location: TBD

Grade 11-12

3 Units - 2 Semesters

3 Hours Daily, AM/PM Sections

Prerequisite: None

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.

Course Description: This course is designed for students who have an interest in learning about Horticulture Science. 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.

High School Credit Check

Name: _____ Class of: _____ Current Grade Classification: 09 10 11 12			<u>Physical Ed</u> (1.0 Required) _____ (0.5) _____ _____ (0.5) _____ _____ (0.5) _____		
<u>Comm Arts</u> (4.0 Required) S1 S2 Comm Arts 1 (1.0) _____ _____ Comm Arts 2 (1.0) _____ _____ Comm Arts 3/AP Literature (1.0) _____ _____ Comm Arts 4/AP Lang (1.0) _____ _____			<u>Practical Arts</u> (1.0 Required) _____ (0.5) _____ Personal Finance (0.5) _____		
<u>Math</u> (3.0 Required) S1 S2 Algebra I (1.0) _____ _____ Geometry (1.0) _____ _____ Algebra 2 (1.0) _____ _____ Sr. Math Elective (1.0) _____ _____			<u>Speech/Theater</u> (0.5 Required) Oral Communications/Fundamentals of Speech _____		
<u>Science</u> (3.0 Required) S1 S2 Physical Science (1.0) _____ _____ 10 th Grade Science (1.0) _____ _____ Biology/Honors Biology (1.0)			<u>Fine Arts</u> (1.0 Required) _____ (0.5) _____ _____ (0.5) _____		
<u>Social Studies</u> (3.0 Required) S1 S2 Modern World History/AP World (1.0) _____ _____ Am History/AP Am History (1.0) _____ _____ Am Govt/AP Govt (1.0) _____ _____ Health (0.5 Required) _____			<u>Electives</u> (8.0 Required) _____ (1.0) _____ _____ <i>*College bound students should take 1 additional Science elective credit.</i> _____ (1.0) _____ _____ <i>*College bound students should take 1 additional Social Studies elective credit.</i> _____ (1.0) _____ _____ _____ (1.0) _____ _____ _____ (0.5) _____ _____ _____ (0.5) _____ _____ _____ (0.5) _____ _____ _____ (0.5) _____ _____ _____ (0.5) _____ _____		

ADDITIONAL RESOURCES

NCAA DIVISION I AND II ELIGIBILITY REQUIREMENTS:

[HTTP://FS.NCAA.ORG/DOCS/ELIGIBILITY_CENTER/QUICK_REFERENCE_SHEET.PDF](http://fs.ncaa.org/DOCS/ELIGIBILITY_CENTER/QUICK_REFERENCE_SHEET.PDF)

RUSKIN HIGH SCHOOL WEBSITE:

[HTTP://WWW.RUSKINEAGLES.COM/](http://www.ruskineagles.com/)

MISSOURI DEPARTMENT OF HIGHER EDUCATION'S A+ PROGRAM:

[HTTP://DHE.MO.GOV/PPC/GRANTS/APLUSSCHOLARSHIP.PHP](http://dhe.mo.gov/ppc/grants/aplusscholarship.php)

MISSOURI DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION

[HTTP://DESE.MO.GOV/](http://de.se.mo.gov/)

ACT STUDENT REGISTRATION PORTAL:

[HTTPS://SERVICES.ACTSTUDENT.ORG/OA_HTML/ACTIBECACDLOGIN.JSP](https://services.actstudent.org/OA_HTML/ACTIBECACDLOGIN.JSP)