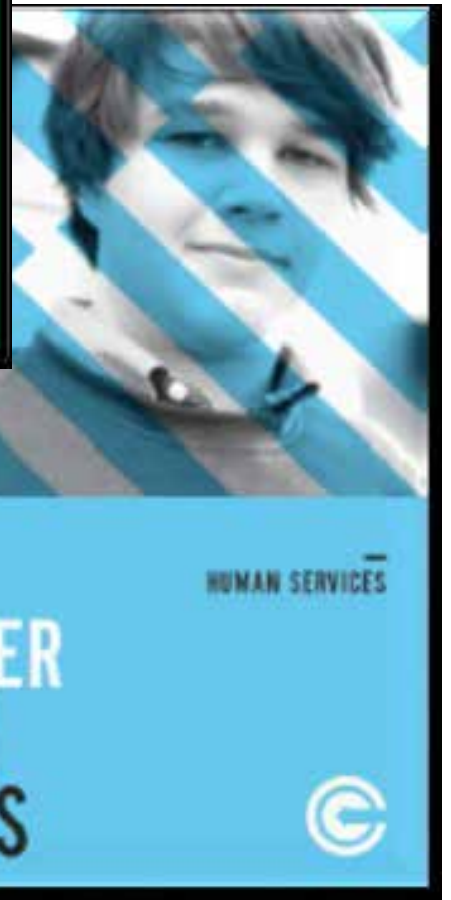


Career and Education Planning Guide



Center High School



Center High School

Administration

Principal: Edward Tate

Assistant Principal: Olivia Stevenson

Assistant Principal: Christopher Green

Assistant Principal/Athletic Director: Sam Simmons

Center High School

8715 Holmes Road

Kansas City, MO 64131

816.349.3330

Center Alternative School

Administration

Principal: Matt Woolf

Center Alternative School

8434 Paseo

Kansas City, MO 64131

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The Center School District strives for excellence in our schools where all students are expected to learn and grow.



Core Values

At Center Schools, we value . . .

- High Expectations for Student Success
 - Safe and Respectful Schools
 - Positive Relationships
- Diversity in Our Schools and Community

Mission Statement

All students will demonstrate high achievement, character, and teamwork in a diverse community.

Together, we achieve!

Introduction

Welcome to Center Professional Studies, Center School District's pathway programs that provide students future-ready experiences. Center Professional Studies provides experiential learning during which students and instructors work on real-world, project-based content. Collaborating with industry, colleges and technical programs, students' course work will progress through academic pathways that lead to post-secondary educational opportunities and professional careers.

CENTER PROFESSIONAL STUDIES PROVIDES UNIQUE OPPORTUNITIES FOR OUR STUDENTS TO GAIN REAL EXPERIENCES INSIDE AND OUTSIDE THE CLASSROOM.

We believe that the future depends on students exploring and pursuing their passions through profession-based experiences while in our Center schools. This allows our students to learn about business practices, engineering, health and science, entrepreneurship, creativity, professionalism and much more through hands-on projects and collaborating with industry experts. Innovation and creativity will spark the future careers of our students and we are giving those experiences through Center Professional Studies.

This Career and Educational Planning Guide has been developed for students and parents to obtain essential information about course curriculum and high school programs. We encourage parents and students to create a four-year academic plan to help them toward their post-graduation and career goals. Please review courses thoughtfully to help inform your planning.

Contacts

COUNSELING / SOCIALWORK

NAME	PHONE NUMBER	TITLE	EMAIL ADDRESS
Lauren Criss	816-349-3348	Counselor -Seniors/Juniors	lcriss@center.k12.mo.us
Isaias Mendez	816-349-3368	Counselor -Freshmen/Sophomores	imendez@center.k12.mo.us
Kerry Dixon	816-349-3397	Student Success Coordinator	kdixon@center.k12.mo.us
Hannah O'Donnell	816-349-3373	Social Worker	hodonnell@center.k12.mo.us
Karah Chapman	816-359-6401	School Psychologist	kchapman@center.k12.mo.us

ADDITIONAL COUNSELING STAFF

NAME	PHONE NUMBER	TITLE	EMAIL ADDRESS
Jennifer Thurn	816-349-3345	Registrar	jthurn@center.k12.mo.us
Mary Jackson	816-349-3422	Counseling Secretary	mjackson@center.k12.mo.us

CENTER ALTERNATIVE SCHOOL – GUIDANCE DEPARTMENT

NAME	PHONE NUMBER	TITLE	EMAIL ADDRESS
Michelle Gibson	816-349-3662	Social Worker	mgibson@center.k12.mo.us
Audrey Harris	816-349-3435	Registrar	aharris@center.k12.mo.us
Dr. Krista McGee	816-349-3664	Student Success Coordinator	kmcgee@center.k12.mo.us

General Enrollment Info

Students enrolled in the Center School District must demonstrate residency at the time of enrollment and prior to beginning classes at the start of each new school year. Please contact Central Office 816-349-3306 for more information on beginning your student's enrollment.

Students Enrolling Late

Any student who enrolls after the first two weeks of school and does not have a transfer grade from an academic institution and has not been enrolled should receive a "0" for each assignment missed as recorded in Infinite campus.

If you have a student entering a class after the start of the semester they must make up all work they have missed or get a zero for what they have not completed. After the 20th official day, students will receive zeros for homework and classwork, but will be allowed to make up tests and projects.

Exceptions to this rule will be made by an administrator when a good faith effort has been made on the part of Center High School or a student to begin school but circumstances beyond control prevent timely enrollment.

Grade Level Placement

1. All students are required to be enrolled eight (8) semesters in grades nine and above. All students must enroll for a full daily schedule.
2. Credit in a full year course will be given on a semester basis. In order to receive credit, the student must earn a passing grade.
3. Full year courses must not be interrupted to take a one semester course.
4. Students must repeat any required course they have failed.

Blended and Online Learning

Center School District offers high school students a variety of online learning courses in order to prepare students for learning beyond high school and to provide flexibility in students' schedules. During the course, teachers communicate with students using Center School District student email, phone, and collaborative tools within the course management system. Enrollment is handled with the counselor and placed on student schedules as all other courses within the district.

Blended Course—Center High School has a 1 to 1 initiative whereby every student is issued a district purchased laptop computer. Students will access course content from virtual classrooms through Moodle and Google classroom. A blended course is where the student learns at least in part through online delivery of content and instruction, while still attending regularly scheduled face-to-face class sessions.

LAUNCH Online Learning

See CSD Online Student/Parent Handbook:

<https://resources.finalsite.net/images/v1604676559/center/j2lonl4hekh38hoic-jz2/CHSStudentHandbook20-2111-05-20.pdf>

College and Career Readiness Testing

To learn more about the tests below, please contact your high school counseling department.

ACT www.actstudent.org

Administered in the spring of each school year to qualifying juniors and seniors, and at testing sites in the district on Saturdays throughout the school year.

SAT www.sat.collegeboard.org

Administered to high school students at testing sites in the district on Saturdays throughout the school year.

ASVAB www.asvabprogram.com

Administered to seniors in the fall of each school year.

PSAT www.collegeboard.com/student/testing/psat/

Administered to juniors in the fall of each school year.

ACCUPLACER

Placement exam for community colleges

ACT WorkKeys www.act.org/workkeys

Offered to qualifying students through specific course offerings.

A+ Scholarship

Center High School A+ Coordinator

Dr. Usha Saha

usaha@center.k12.mo.us

(816)349-3354

A+ Financial Benefits

Students who meet the A+ requirements will be eligible for two years reimbursed tuition and general activity fees at any Missouri community college, vocational or technical school. This funding is based on yearly allotments made by the state legislature. Many Missouri 4-year universities offer scholarships based upon A+ criteria as well.

A+ Requirements

As long as state funds remain available, students who have met the following requirements upon graduation will receive financial benefits.

- Signed A+ Letter of Intent
- 2.5 Unweighted Grade Point Average (over 4 years)
- 95% Attendance (average over 4 years) *
- Score Proficient or Advanced on the Algebra I EOC exam (may be retaken for eligibility purposes)
- 50 Hours of mentoring or tutoring (over 4 years)
- Good Citizenship-see A+ Citizenship Regulation (over 4 years)
- Three years of consecutive attendance at an A+ High School ending with graduation
- Completion of a Free Application for Federal Student Aid (FAFSA) prior to becoming eligible for the A+ Financial Reimbursement
- Registration for Selective Service (males) upon 18th birthday

*With the exception of field trips and homebound stays, all absences count against a student's attendance percentage.

Upon graduation, A+ certified students must enroll and attend on a full time basis, a Missouri public community college, vocational or technical school, while maintaining a GPA of 2.5.

A+ Mentoring & Tutoring (M&T) Hours

All students seeking A+ certification must complete 50 hours of unpaid mentoring/tutoring. All activities must be sponsored by the school district, take place on school district property and be supervised by school district patrons or personnel. Additionally, A+ hours must be earned by mentoring or tutoring students who are younger in age or ability. Prior approval by the A+ Coordinator is required.

Website for the Missouri A+ Scholarship Program:

<https://dhewd.mo.gov/ppc/grants/aplusscholarship.php>



National Honor Society Application Process

National Honor Society is a service organization. Applications are made available following the close of the first term. Members are selected by meeting eligibility requirements. The applicant must demonstrate the qualities of scholarship, service, leadership and character through school and community activities.

To be eligible for NHS students must minimally:

1. Be a fifth semester junior or a seventh semester senior;
2. Have a minimum cumulative 3.5 grade point average;
3. Have been active in 2 school sponsored clubs, teams, or organizations in grades 10-12 with evidence of active involvement (Students will need to obtain a signature from the coach or sponsor.);
4. Have participated in community service projects;
5. Complete the Student Activity and Service Information Form indicating school organization involvement; and
6. Have a satisfactory faculty evaluation of character.

Sophomores are strongly advised to consider their active participation in school and community functions and organizations if their goal is to gain membership in this prestigious organization. Questions regarding NHS should be directed to the school adviser.

NCAA Eligibility Center Quick Reference Guide Divisions I and II Initial Eligibility Requirements

Core Courses

- NCAA Division I and Division II require 16 core courses. See the charts on page 15.
- **NCAA Division I will require 10 core courses to be completed prior to the seventh semester** (seven of the 10 must be a combination of English, math or natural or physical science that meet the distribution requirements on page 15). These 10 courses become “locked in” at the seventh semester and cannot be retaken for grade improvement.
- *Beginning August 1, 2016, it will be possible for a Division I collegebound student-athlete to receive athletic aid and practice with the team if he or she fails to meet the 10 course requirement, but the athlete would not be able to compete.*

Test Scores

- Division I uses a sliding scale to match test scores and core grade point averages (GPA). Division II requires a minimum SAT score of 820 or an ACT sum score of 68.
- The SAT score used for NCAA purposes includes only the critical reading and math sections. The writing section of the SAT is not used.
- The ACT score used for NCAA purposes is a sum of the following four sections: English, mathematics, reading and science reasoning.

-Continued-

- When you register for the SAT or ACT, use the NCAA Eligibility Center code of 9999 to ensure all SAT and ACT scores are reported directly to the NCAA Eligibility Center from the testing agency. *Test scores that appear on high school transcripts will not be used.*

Grade-Point Average

- Be sure to look at your high school's list of NCAA Courses on the 16 NCAA Eligibility Center's website: www.eligibilitycenter.org. Only courses that appear on your school's list of NCAA Courses will be used in the calculation of the core GPA. Use the list as a guide.
- **Division I** GPA required to receive *athletics aid and practice* is 2.000 (corresponding test-score requirements are listed at the website above).
- **Division I** GPA required to be eligible for competition is 2.300 (corresponding test-score requirements are listed at the website above).
- **The Division II** core GPA requirement is a minimum of 2.000.
- Remember, the NCAA GPA is calculated using NCAA core courses only.



NCAA Eligibility Center Quick Reference Guide Divisions I and II Initial Eligibility Requirements

DIVISION I

(16 CORE COURSES)

- 4 years of English
- 3 years of math (Algebra I or higher)
- 2 years of natural/physical science (1 year of lab if offered by high school)
- 1 year of additional English, mathematics or natural/physical science
- 2 years of social science
- 4 years of additional courses (from any area above, foreign language or comparative religion/philosophy)

DIVISION II

(16 CORE COURSES)

- 3 years of English
- 2 years of math (Algebra I or higher)
- 2 years of natural/physical science (1 year of lab if offered by high school)
- 3 years of additional English, mathematics or natural/physical science
- 2 years of social science
- 4 years of additional courses (from any area above, foreign language or comparative religion/philosophy)

Infinite Campus Parent Portal and Student Access

The Infinite Campus Parent Portal is an Internet based student information system designed to assist in communication between home and school. The Portal gives parents, guardians and students access to important student information such as grades, schedules, attendance and announcements in real time. It also allows parents/guardians to view their household contact information and student emergency contacts, and they can request updates to this information directly from the Portal.

Each parent/guardian and student has his/her own account. For parents and guardians, this single account allows for viewing of information for all students in the household. If a parent needs to set up their Parent Portal account for the first time, they will need an activation key from the student's building office staff. Once they have this key, they will create their own username and password. Students log on to the Portal using the same credentials they use to log on to the computer.

High School Course Offerings

The course descriptions that follow represent a summary of classes offered at the high school level. The descriptions do not list all topics and/or activities associated with each class.

Please click on the following links for Summit Tech Academy and Herndon Career Center courses/requirements.

Summit Technology Academy Herndon Career Center



Recommended Courses of Study

There may be special situations or circumstances that would suggest deviations from these recommendations. Students, parents, and staff should exercise care and prudence when deviating from those recommendations. If a student believes his or her best interest will be served by varying from the recommended courses of study, he or she should consult their parents and counselor.

The following Center Board of Education policy guidelines apply to graduation from the Center School District:

1. The State of Missouri requires students to pass the U.S. and Missouri Constitution tests before graduation. Students are given this test in Government.
2. The State of Missouri requires all students complete instruction in CPR (30 min).
3. Credit may be earned and counted toward high school graduation requirements through (a) extension and correspondence courses from accredited public institutions of higher education, (b) summer school from approved public institutions, or (c) school-approved adult education courses.
4. Credit for off-campus instruction under the guidance and direction of the school faculty may be granted for programs approved by the State Department of Education.
5. When transfer students are unable to meet Center School District graduation requirements, exceptions may be made which will permit them to graduate if (a) they have done satisfactory work since the date of transfer; (b) they have been unable to meet specific requirements due to conditions beyond their control; and (c) they would have graduated from the former school had they not transferred.

ICAP - Individual Career and Academic Plan

The Center Professional Studies Planning Guide has been compiled to assist students in making decisions related to academic planning and preparation for their career path. It is intended to be a source of information when making course selections for the upcoming school year. The listed courses represent offerings from all academic departments plus career and technical education.

The Counseling Department will assist students with career exploration and educational planning through utilizing Missouri Connections. Counselors and advisory teachers will help students create an Individual Career and Academic Plan (ICAP) to serve as a guide for determining which courses students should select during enrollment. Students should also consult parents/guardians and teachers when choosing courses.

The Career and Education Planning Guide is updated annually to reflect the district curriculum at the high school level. **The graduation requirements are listed below:**

• English Language Arts (prescribed)	4
• Social Studies (prescribed)	3
• Science	3
• Mathematics	3
• Physical Education	1
• Fine Arts	1
• Speech or Debate	.5
• Practical Arts	.5
• Health	.5
• Personal Finance	.5
• Electives	8
Total	25

Schedule Change Policy

A student's schedule will be changed for the following reasons:

1. **COMPUTER ERROR** - If the course number has been incorrectly placed in the computer, the enrollment worksheet will serve as a reference for substituting the correct course.
2. **PREREQUISITE COURSES NOT MET** - Many courses require a prerequisite. If a student has not met the necessary prerequisite, a new course will be substituted.
3. **DUPLICATE CREDIT** - A student may not receive credit for a course twice. A course change will be made if the student has registered for a course for which they already have credit. See course description for exceptions.
4. **INCREASE RIGOR IN SCHEDULE** - A student requesting a change to a more rigorous core area course will be readily accepted provided space is available.

Students should carefully consider course selections for the next school year. Student course requests provide input for creating the master schedule and determining teacher assignments. Avoiding class overloads and maintaining class balances are of primary importance once the master schedule has been established. The schedule change policy above will be strictly enforced.

Prerequisites

Certain courses have prerequisites that must be fulfilled for a student to enroll. Some courses require successful completion (passing) of the prerequisite courses in order to be successful in subsequent courses. There will be consideration on a case-by-case basis of students who have had hardships. Administration will review those cases and make the determination. Please review the course description to gain guidance for enrollment to each course.



Advanced Placement and Dual Credit

It is highly recommended that college-bound students enroll in Advanced Placement and/or Dual Credit Courses in order to prepare for their post-secondary education.

ADVANCED PLACEMENT

Center High School offers numerous Advanced Placement (AP) courses. AP courses provide students a rigorous college-level curriculum as defined by the College Entrance Examination Board. If students receive a qualifying grade on an AP exam given in May, they may be eligible for advanced placement or course credits at the vast majority of colleges and universities in the world. The amount of college credit available is determined by the college/university. Students enrolled in AP coursework are expected to sit for and make an effort on the corresponding AP Exam in May. Additionally, students who complete an AP course will have the course grade weighted.

To assist students for preparation of the exams, AP teachers offer review sessions prior to testing. For students taking the exam, the College Board has an associated testing fee for each exam, and fee waivers may be available. For information on fee waiver eligibility or any information regarding Advanced Placement, students may access www.collegeboard.com, contact their student's counselor, or the AP Coordinator.

All students are welcome to request Advanced Placement classes to challenge themselves academically. Any student who wishes to sign up for an AP class will be allowed to as long as they have met the requirements of that course. We will require students to sign a student/ parent contract and prove that they have visited with at least three of their teachers about AP classes and course work. Student will prove that these conversations have happened by teacher signatures on the student/ parent AP contract.

DUAL CREDIT

Center High School offers dual credit coursework in cooperation with the University of Missouri-Kansas City, University of Central Missouri, Drury University and Metropolitan Community College. For certain courses taken for high school credit, students have an option to obtain college credit if eligible. The high school courses with possible dual credit availability are indicated in the department listings. Such dual credit offerings are contingent upon staff availability and student demand. To enroll for college credit, the Missouri Department of Higher Education has eligibility guidelines.

Tentative Dual Credit Classes

Content Area	CHS Course	Awarding College	College Credit
English	English 110	UMKC	3 Credits
Language Arts	English 126	UMKC	3 Credits
Math	College Alg 110	UMKC	5 Credits
	Pre-Calc 120	UMKC	5 Credits
	Stats 235	UMKC	3 Credits
Computer Science	Comp-Sci 101	UMKC	3 Credits
Theatre Arts	Theatre 130	UMKC	3 Credits
Spanish I	Spanish 110	UMKC	3 Credits
Spanish II	Spanish 120	UMKC	3 Credits
Education	Teach-Ed 160	UMKC	3 Credits

High School Business & Technology Courses

The objectives of the Business/Technology Department are to encourage students to develop marketable skills and to gain business knowledge for personal or business application. The courses are developed to enable students to seek employment immediately after graduation, to provide a background for college-bound students, and to gain a general understanding of the business world for personal use. The computer and other electronic aids to information processing are increasingly a part of American life. Gaining mastery over technology is important to live in a technologically-oriented society. Computer courses are designed to promote 1) solving problems toward academics and work; 2) contributing to the concepts of building upon the work of others; 3) communicating with others about understanding; 4) solving problems, and correcting one's errors through logical, step-by-step processes.

Each course meets the state requirement and Center High School Graduation requirement of .5 unit of practical art credit.

INTRODUCTION TO BUSINESS – .5 CR

Grades: 9, 10, 11, 12

Prerequisites: None

Course Description: Introduction to Business This course gives students an understanding of economic systems and consumerism providing the resources needed for students to explore business careers and entrepreneurship. The content in this area is vital to the career planning of business students as they develop workplace and personal skills including knowledge of banking, credit, taxes, insurance, investment, and personal finance.

ACCOUNTING – 1 CR

Grades: 10, 11, 12

Prerequisites: None

Course Description: Accounting is a class that will help any student that wishes to study business in college, operate his/her own business, or just know more about financial topics that will help throughout his/her financial life. Accounting is the language of business. Anyone planning a career/college major in any area of business should enroll in this course. This course introduces students to recording transactions from source documents, posting journal entries to ledger accounts, checking accuracy, and preparing financial statements. Students will complete both manual and computerized accounting simulations. Excel spreadsheets and/or accounting software are utilized.

BUSINESS LAW – .5 CR

Grades: 10, 11, 12

Prerequisites: None

Course Description: This course is designed to acquaint students with basic knowledge of law for personal and business use. Topics include ethics and law, criminal law, problems in society, tort law, court systems, contract law, consumer law, income tax, insurance, employment contracts, family law, renting or buying a place to live, credit, consumer protection, and warranties.

BUSINESS TECHNOLOGY – .5 CR

Grades: 10, 11, 12

Prerequisites: None

Course Description: This course is intended to provide a solid foundation to students in office technology with reference to careers and career opportunities and provide a working knowledge of how to begin and complete a job search. This course is designed to prepare students for employment in a business related field.

COMPUTER BUSINESS APPLICATIONS – .5 CR

Grades: 10, 11, 12

Prerequisites: None

Course Description: This course is designed to help students review and master beginning and advanced skills in the areas of word processing, spreadsheet applications, multimedia, internet usage, and integrated software applications.

PERSONAL FINANCE – .5 CR

Grades: 10, 11, 12

Prerequisites: None

GRADUATION REQUIREMENT

Course Description: This is a one-semester course which fulfills the Personal Finance graduation requirement. Content includes information to encourage students to become rational, competent members of the work resources; financial services and responsibilities; responsible use of credit responsibilities of consumers.

YOUTH ENTREPRENEURS – 1 CR

Grades: 11, 12

Prerequisites: None

Course Description: YE teaches students how to start and run their own, real businesses, identify feasible business ideas, write professional business plans, create marketing materials, pitch to a panel of live investors, and launch their products or services at a public trade show. By the end of the program, each student has a real business to run and the skills needed to be successful workers, leaders, and entrepreneurs for the rest of their lives

UMKC INTRO TO ENTREPRENEURSHIP – 1 CR and 3 College Credits

Grades: 11, 12

Prerequisites: Youth Entrepreneurs

Course Description: This course introduces students to the excitement and challenges of building their own businesses. It focuses on identifying and evaluating entrepreneurial opportunities, as well as identifying what it takes to get a new venture off the ground. The course is enriched with real-life examples, including case studies of start-ups and personal stories from local entrepreneurs. The instructor emphasizes active, hands-on learning; additionally, student teams will get a taste for starting and running a company through a computerized business simulation.

MARKETING CONCEPTS – 1 CR

Grades: 10, 11, 12

Prerequisites: None

Course Description: This course develops student understanding of distribution, financing, marketing information management, pricing, product/service management, promotion, and selling. Students enrolled in Marketing Concepts participate in DECA, a student organization that provides opportunities for students to demonstrate their mastery of the marketing curriculum in competitive events, to develop leadership skills, and to exhibit awareness of civic responsibilities. DECA can assist students in receiving scholarships, building a successful resume, and networking with business professionals.

ADVANCED MARKETING – 1 CR

Grades 10, 11, 12

Prerequisites: Marketing Concepts

Course Description: This course includes advanced study in business, management and entrepreneurship, communication, interpersonal skills, economics and professional skills development. Students will conduct in-depth marketing research projects that incorporate all aspects of marketing. It is required that all marketing students join DECA within the first two weeks of school.

MARKETING AT WORK – 1 CR

Grades: 12

Prerequisites: Approval from CHS administration

Course Description: Students enrolled in Marketing at Work are involved in a supervised work study program in the area of Marketing Education. Work Experience provides a transition into the workplace and practice needed to prepare students for future employment in a business marketing setting. Student must show proof of employment prior to enrollment in the class.

SPORTS & ENTERTAINMENT MARKETING – 1 CR

Grades: 11, 12 Continued Enrollment Option

Prerequisites: None

Course Description: Sports and Entertainment Marketing focuses on marketing and management functions/tasks that can be applied in amateur or professional sports or sporting events, entertainment or entertainment events, selling or renting of supplies and equipment (other than vehicles) used for recreational or sporting purposes, products and services related to hobbies or cultural events, or businesses primarily engaged in satisfying the desire to make productive or enjoyable use of leisure time. The co-curricular organization DECA is an opportunity for students interested in challenging their newly acquired business skills. This organization offers many benefits and exciting activities for marketing students, including competitions, awards, scholarships, job opportunities, and travel.

*Participation in DECA is available and encouraged.

BROADCAST and VIDEO PRODUCTION (Hive TV) – 1 CR

Grades: 10, 11, 12 - Continued Enrollment Option

Prerequisites: None

Course Description: Broadcast/Video production is designed to foster positive learning experiences while teaching the basic production techniques both behind and in front of the camera. The course is designed to involve students in the technological environment of both live and recorded video productions.

Culinary & FACS Courses

CHILD DEVELOPMENT – .5 CR

Grades: 10, 11, 12

Prerequisites: None

Course Description: This course is for grades 10-12. This course will provide information about the intellectual, social, emotional and biological development of children and the skills needed to care for children. Skills related to; parent and child, parenting practices, special needs of children, parental environmental influences on child development. The course will also address the importance of providing appropriate care and guidance for children.

CHILD CARE – .5 CR

Grades 9, 10, 11, 12

Prerequisites: Child Development

Course Description: This course will provide advanced study in child development and guidance. Students will learn practical skills related to guidance and caring for child of various ages in the following areas; physical, social, moral and intellectual. Students will learn the process of creating a child care facility. Observation and possible limited experiences in childcare setting will complete this course.

NUTRITION AND WELLNESS – .5 CR

Grades 9, 10, 11, 12

Prerequisites: None

Course Description: This course is intended to help students understand the principles of nutrition as well as the relationship of nutrition to health and wellness. Students will also solve problems related to health and wellness, as well as food needs through the application of mathematics and science principles; and, make responsible decisions involving family and individual food needs, the use of the food dollar and the care of food.

PROSTART I – 1 CR

Grades 10, 11, 12

Prerequisites: Nutrition and Wellness

Course Description: Are you interested in starting an exciting career in the restaurant and food service industry or just advancing your skills? You will be introduced to the fundamentals of culinary arts beginning with preparatory steps for becoming a successful restaurant and food service professional. Students will learn all aspects of food safety and sanitation and the principles of professional kitchen basics, knife skills, knife cuts, and preparation techniques for stocks, soups, sauces, fruits, vegetables, and grains. Students who pass the end of course exam for Level I will receive a certificate from the National Restaurant Association. Chef attire required. College credit is available through Missouri State.

PROSTART II – 1 CR

Grades 11, 12

Prerequisites: ProStart I

Course Description: This course anticipated for the 2022-2023 school year

S.T.E.A.M Course Offerings

Students planning to pursue engineering or engineering-related fields in two- and four-year programs after high school are encouraged to consider PLTW courses in addition to rigorous math and science courses.

PLTW INTRO TO ENGINEERING DESIGN – 1CR

Grades: 9, 10, 11, 12

Prerequisites: Algebra I

Course Description: Students use a problem-solving model to improve existing products and invent new ones, and they apply this model to solve problems in and out of the classroom. Using sophisticated three- dimensional modeling software, students communicate the details of products. Emphasis is placed on analyzing potential solutions and communicating ideas to others.

PLTW PRINCIPLES OF ENGINEERING – 1 CR

Grades: 10, 11, 12

Prerequisites: PLTW IED

Course Description: This course explores the wide variety of careers in engineering and technology and covers various technology systems and manufacturing processes. Using activities, projects and problems, students learn firsthand how engineers and technicians use math, science, and technology in an engineering problem-solving process to benefit people. The course also addresses concerns about social and political consequences of technological change.

PLTW ENGINEERING DESIGN AND DEVELOPMENT – 1 CR

Grades: 10, 11, 12

Prerequisites: PLTW IED and POE

Course Description: Engineering Design and Development (EDD) is an engineering research course in which students work in teams to research, design, test, and construct a solution to an open-ended engineering problem. This course is part of the Project Lead the Way (PLTW) engineering curriculum, a capstone project. The product development life cycle and a design process are used to guide the team to reach a solution to the problem. The team presents and defends their solution to a panel of outside reviewers at the conclusion of the course. The (EDD) course allows students to apply all the skills and knowledge learned in previous pre-engineering courses.

Please use the link to Summit Tech Academy on Page 17 to view further STEAM offerings.

Skilled Trades

Trades I Beg Woodshop – .5 CR

Grades: 10, 11, 12

Prerequisites: None

Course Description: This course gives students an introduction to the hands-on world of the skilled trades. Students will learn important skills of measurement, safety and basic power tool usage. Students will work to create four finished projects throughout the semester-long course. Beginner Woodshop is the first course in the Skilled Trades course tree. Completion of the Skilled Trades program will lead to industry certifications and skills that will prepare students to immediately enter skilled trade apprenticeship programs after graduating from Center High School. ***This course is a prerequisite for Advanced Woodshop.

Trades II ADV Woodshop – .5 CR

Grades: 10, 11, 12

Prerequisites: Trades I Beg Woodshop

Course Description: This course will engage students with more complex skills of measuring, cutting and joining wooden materials. Students will learn how to use more advanced math techniques which will allow for more complex designs. Students will also learn finishing skills such as routing, painting and staining to provide for a more professional look to their projects. Advanced Woodshop is the second course in the Skilled Trades course tree. Completion of the Skilled Trades program will lead to industry certifications and skills that will prepare students to immediately enter skilled trade apprenticeship programs after graduating from Center High School. ***This course is a prerequisite for the Skilled Trades I.

Skilled Trades I – .5 CR

Grades: 11, 12

Prerequisites: Trades II Adv Woodshop

Course Description: This course anticipated for the 2022-2023 school year

Skilled Trades II – .5 CR

Grades: 11, 12

Prerequisites: Skilled Trades I

Course Description: This course anticipated for the 2023-2024 school year

Life Sciences

PLTW PRINCIPLES OF BIOMEDICAL SCIENCES – 1 CR

Grades 9, 10, 11, 12

Prerequisites: None

Course Description: In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

PLTW HUMAN BODY SYSTEMS – 1 CR

Grades 10, 11, 12

Prerequisites: ?

Course Description: 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 on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

PLTW MEDICAL INTERVENTIONS – 1.5 CR

Summit Technology Academy Semester Grades 11, 12

Prerequisites: ?

Course Description: 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 of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

PLTW BIOMEDICAL INNOVATIONS – 1.5 CR

Currently at Summit Tech. Coming to CHS for the 22-23 School Year

Grades 11, 12

Prerequisites: ?

Course Description: In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent project with a mentor or advisor from a university, medical facility, or research institution.

Anatomy and Physiolog – 1 CR

Grades 10, 11, 12

Prerequisites: Biology

Course Description: This course will provide students with an integrated view of how the human body works. Numerous applications and everyday examples will show how the human body responds to disease, injuries, as well as what conditions help to optimize health. Students will be involved in computer simulation and / or dissection of various body parts to show how anatomy relates to physiology.

SPORTS MEDICINE AND ATHLETIC TRAINING – 1 CR

Grades: 10, 11, 12

Prerequisites: ?

Course Description: This course will introduce fields such as athletic training, physical therapy, medicine, fitness, physiology of exercise, kinesiology and nutrition. It will provide an opportunity for the study and application of the components of sports medicine, athletic injuries, rehabilitation, taping and wrapping techniques, first aid, CPR, emergency procedures, human anatomy and physiology and therapeutic modalities/exercise.

Sports Medical Trainer / Internship – 1 CR

Grades: 11, 12

Prerequisites: Sports medicine and Athletic Training

Course Description: This course is offered to expose students to the profession of athletic training and sports medicine. The students will obtain an understanding in the healing process of injuries, the administration of injury prevention techniques, the treatment of athletic injuries, and rehabilitation of athletic injuries. Grade emphasis will be placed on attendance, class and clinical participation, skills development, and knowledge of subject.

Please use the link to Herndon Career Center on Page 17 to view further PLTW offerings.

Computer Sciences

PLTW COMPUTER SCIENCE ESSENTIALS – 1 CR

Grades: 9, 10, 11

Prerequisites: None

Course Description: With emphasis on computational thinking and collaboration, this year-long course provides an excellent entry point for students to begin or continue the PLTW Computer Science K-12 experience. Computer Science Essentials will expose students to a diverse set of computational thinking concepts, fundamentals, and tools, allowing them to gain understanding and build confidence.

Students will use visual, block-based programming and seamlessly transition to text-based programming with languages such as Python to create apps and develop websites, and learn how to make computers work together to put their design into practice. They'll apply computational thinking practices, build their vocabulary, and collaborate just as computing professionals do to create products that address topics and problems important to them.

PLTW COMPUTER SCIENCE PRINCIPLES – 1 CR

Grades: 10, 11, 12

Prerequisites: Computer Science Essentials

Course Description: Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. Computer Science Principles helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. PLTW is recognized by the College Board as an endorsed provider of curriculum and professional development for AP® Computer Science Principles (AP CSP).

CHAOS – 1 CR

Grades: 10, 11, 12

Prerequisites: PLTW Computer Science Essentials

Course Description: Computer Hardware and Operating systems prepares students for the TestOut PC Pro and CompTIA A+ certification exams.

Students use multiple learning formats to learn how to install, manage, and secure computer hardware and master home and corporate OS environments. Students will learn the skills required to work as an IT support professional. They will learn to install, repair, configure, secure, and manage computer hardware, operating systems, and software in home or corporate environments. Additionally, communication, listening and analysis skills are essentials for interacting with customers.

Robotics Technology – 1 CR

Grades: 9, 10, 11, 12

Prerequisites: ?

Course Description: Student will be introduced to various engineering concepts to build a functional robot guided by the FIRST Tech Challenge curriculum. Students will be immersed in the design process and learning various programming languages as well as the components necessary to build a robot. Students will use collaborative skills to develop an innovative solution to a real world problem. There will be class engineering challenges using the radio controlled TETRIX robotic system and smart phones equipped with Bluetooth capabilities. Careers in robotics, programming, and engineering will be discussed. Students will also explore various real world problems and work as a collaborate group to develop an innovative solution to an engineering or environmental challenge facing our society. Students will explore basic AutoCAD and use these skills to create and 3D print prototypes for the innovative solution projects.

English Language Arts

The English Language Arts Department offers courses in reading, writing, listening, and speaking. Students are required to earn FOUR credits in English Language Arts for high school graduation. If a student fails a required course, the course must be retaken and passed in order to receive credit for that level. Seniors are required to be enrolled in an English Language Arts class from the program of study.

REQUIRED COURSE OF STUDY

- English 9 or English 9 Honors
- English 10 or English 10 Honors
- English 11 or Composition & Am. Literary Trends
- English 12 or AP English Literature or UMKC English 101 & 204

ENGLISH 9 – 1 CR

Prerequisites: None

Course Description: Students will develop critical reading literacy, reading comprehension and increase writing proficiency. Students are introduced to the major literary themes in a survey of culturally diverse western literature that includes short stories, poetry, drama, and a variety of nonfiction selections.

ENGLISH 9 HONORS – 1 CR

Prerequisite: Parent or Teacher recommendations will be considered

Course Description: The pace of the Honors course accelerates the reading schedule and increases the amount of writing composition. The Honors course offers a deeper analysis of the canonical literature for freshmen English. The reading includes: *To Kill a Mockingbird*, *Animal Farm*, *The Count of Monte Cristo*, *Ender's Game*, *Animal Farm* and *Romeo and Juliet*, among other short stories and poems. The vocabulary, grammar, and composition is geared toward high achievements on the ACT/ SAT preparation.

ENGLISH 10 – 1 CR

Prerequisites: None

Course Description: Students explore themes from selected readings in world literature as they practice comprehension skills while reading fiction (short stories, novels, poetry, and drama) and nonfiction works. Students analyze the selections as they relate to the individual, the community, the nation, the world, and the history of man. Essential writing skills are practiced in essays.

ENGLISH 10 HONORS – 1 CR

Prerequisites: Parent or Teacher recommendations will be considered

Course Description: The pace of the Honors course accelerates the reading schedule and increases the amount of writing composition. The Honors course offers a deeper analysis of the canonical literature. The reading includes: *Night*, *A Midsummer Night's Dream*, *Life of Pi*, *The Adventures of Huckleberry Finn*, and *The Tragedy of Oedipus the King*, among other short stories and poems. Students regularly present expository and persuasive presentations in the Honors class. They develop research skills and analyze non-fiction. There is special attention to preparing for the PSAT during first semester as well as preparation for ACT and EOC (ENGII).

ENGLISH 11 – 1 CR

Prerequisites: None

Course Description: This course acquaints students with reading major American authors and writing about the literature that is studied. The course includes reading selections written by authors who have had a significant influence on American literature from colonial to modern times. Life Skills in reading comprehension, listening, speaking, and writing compositions are reinforced through classroom activities.

COMPOSITION AND AMERICAN LITERARY TRENDS – 1 CR

Prerequisites: 3.0 or better in English 9 and English 10.

Course Description: This course acquaints students with the development of American literature and with the literary, social, and historical trends which have influenced American literature. Specific authors include those who have had a significant influence on American literary trends from colonial to modern America.

ENGLISH 12 – 1 CR

Prerequisites: None

Course Description: This course acquaints the student with the fiction, non-fiction, poetry, and drama of the world. Students study major writers reflecting social, historical and literary trends. Students will write, summarize, paraphrase, and analyze literature in expository essays.

AP ENGLISH LITERATURE AND COMPOSITION – 1 CR

Grade: 11, 12

Prerequisites: English 10

Course Description: AP English Literature is designed for the college-bound student who has demonstrated a willingness and ability to handle difficult material with independence and precision. The course of study focuses on developing sophisticated skills of literary analysis through the study of world literature with a major emphasis on novels, poetry and drama. The student is assigned a variety of compositions including a literature based research paper and is expected to do daily reading outside of class. Independent reading of several major works is required. The critical thinking, research and writing skills developed in this course will prepare the student for a rigorous college program.

UMKC ENGLISH COMPOSITION 110: Introduction to Academic Prose (fall semester) – .5 CR and potentially 3 college credits)

Prerequisites: Students must meet the U.M.K.C entrance requirements which include: 1. Have an overall cumulative GPA of 2.75 or higher and/ or a 21 or higher on the ACT by June of Junior year. Tuition is determined by UMKC.

Course Description: This course uses the text and syllabus provided by UMKC and focuses on the study and practice of expository writing and analytical and critical reading. It requires the study of basic rhetorical principles and the practice of those principles in frequent short papers and close reading of models of expository prose. All students should be able to manage a rigorous load and be competent readers and writers. All students in the class must follow the campus curriculum. Even those not taking the class for college credit must meet the same expectations. Students who earn a passing grade in this course may enroll in UMKC 204 for only the spring semester.

UMKC English Composition 126: Writing About Literature (spring semester) – .5 CR and potentially 3 college credits)

Prerequisites: Students must meet the UMKC entrance requirements which include: 1. Have an overall cumulative GPA of 2.75 or higher and/ or a 21 or higher on the ACT by June of Junior year and must have successfully have completed UMKC 110 the previous semester. Must take English 11

Course Description: This course is a survey class that introduces students to writing about literature at the college level. The main focus is on getting students to an analytical level in their thinking about the literature and then responding to the different genres of writing (drama, fiction, and poetry) through essay writing. Reading involves the literary experience through a combination of classic and contemporary writing.

COMMUNICATION ARTS PLUS – 1 CR

Course Description: This course is a comprehensive reading intervention course designed to help students who struggle with fluency and reading comprehension. Enrollment in this course is based on a student's Scholastic Reading Inventory (SRI) score

DEBATE – .5 CR

Grades: 9, 10, 11, 12

Prerequisites: None

GRADUATION REQUIREMENT (or Speech)

Course Description: This is a general study of the techniques of interscholastic debate. Students are involved in detailed and extensive analysis of debate theory and technique with application of skills in competition. Help in guiding and developing novice debaters is an inherent part of the class work. Participation in the interscholastic Debate/Forensics program is a requirement. This course may be repeated for additional credit.

SPEECH – .5 CR

Grades: 10, 11, 12

Prerequisites: None

GRADUATION REQUIREMENT (or Debate)

Course Description: Students will demonstrate an understanding and application of the techniques used in formal public speaking including listening skills, speech preparation and research methods. Activities involve preparing speeches to inform, entertain and persuade as well as panel discussions and oral interpretation of literature. This course is designed for college-bound seniors or students entering the work force who desire more effective English communication skills.

Yearbook – 1 CR

Grades: 11, 12

Course Description: Students selected for this course will have the responsibility of producing the high school yearbook. While planning the pages of the yearbook, students will be instructed in basic principles of magazine layout and graphic arts. Students will also write feature stories to be used in the various sections of the yearbook. Students are required to sell advertising to finance the publication. Prerequisite: Students must fill out an application for enrollment in this course. **Please Note: This course does not count as an English Lang Arts elective.**

Global Connections – 1 CR

Grades 11,12

Prerequisites: None

Course Description: The course allows students to understand, analyze, assess, and appraise current events, historical contexts, and cultural relationships. Students will be exposed to a working knowledge of history, civics, geography, and economics to understand the attitudes and skills they need as global citizens in their own community and around the world. **Please Note: This course counts as an elective.**

International Languages

SPANISH I – 1 CR

Prerequisites: None

Course Description: This course is an introduction to the Spanish language with emphasis on pronunciation and conversation comprehension. A study of vocabulary and elementary structure of the language is reinforced through reading, writing, speaking and listening. A four-year survey of Latino culture and geography begins in the first year.

SPANISH II – 1 CR

Prerequisites: Spanish I

Course Description: The second year emphasis continues with conversation, listening comprehension, reading and writing in Spanish. A review of structure is done with emphasis on the indicative mood. The student will become acquainted with the history and geography of the Latino cultures.

SPANISH III – 1 CR

Prerequisites: Spanish I and Spanish II

Course Description: In the third year the emphasis is a continuation of improving listening skills, conversational skills, reading and grammatical structures in Spanish. Students will continue to learn history and geography of Spanish-speaking cultures. There is a reinforcement of the past tenses with acquisition of new tenses including an introduction to subjunctive and commands.

UMKC Spanish 110 – .5 CR/3 College Credits

Prerequisites: Spanish III

Course Description: Spanish 110 emphasizes the development of Spanish structures and active vocabulary based on oral and written pattern drills. Conversation based on short dialogue containing only structures already practiced. Cultural content is the context for every single assignment and activity that permeates the grammar and vocabulary lessons.

UMKC Spanish 120 – .5 CR/3 College Credits

Prerequisites: UMKC Spanish 110

Course Description: Students practice and develop further communicative competence in written and spoken Spanish for use in a variety of social and cultural contexts and settings. Cultural Readings are used as the basis of classroom discussions. Cultural aspects of the Spanish-speaking-world are emphasized

ADVANCED PLACEMENT SPANISH – 1 CR

Prerequisites: Spanish III

Course Description: This course emphasizes communication by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. This course is taught almost exclusively in Spanish.

Social Studies

MODERN WORLD HISTORY – 1 CR

Grades 9

Prerequisites: None

Course Description: This course provides insight into multiple cultures, ideas and geographical influences worldwide from the post Renaissance period through the 20th Century.

MODERN WORLD HISTORY HONORS – 1 CR

Grades 9

Prerequisites: Parent or Teacher recommendations will be considered

Course Description: This course is designed to give students an opportunity to learn about the economic, political, and social developments that created the western civilization of which there are a part. The course begins with the Renaissance and Reformation and covers the major events in the world up to the Cold War.

MODERN AMERICAN HISTORY – 1 CR

Grades 10

Prerequisites: None

Course Description: This course reviews the Civil War in light of Reconstruction. The course emphasizes 20th Century America in the modern world. Missouri history, American government and economics are included as appropriate.

MODERN AMERICAN HISTORY HONORS – 1 CR

Grades 10

Prerequisites: Parent or Teacher recommendations will be considered

Course Description: This course provides students an in depth study of American History. An emphasis on 20th Century America from the Civil War to Modern America.

Advanced Placement United States History – 1 CR

Grades 11, 12

Course Description: The AP United States History course is for students who wish to complete studies equivalent to an introductory college course in U.S. History. Students should learn to assess historical materials, and to weigh the evidence and interpretations presented in historical scholarship. Students in this course are expected to take the AP exam in the spring.

Government – 1 CR

Grades 11

Prerequisites: None

Course Description: This course provides a functional knowledge and practical understanding of the U.S. and Missouri Constitutions, all levels of government and the basics of our economic system. The state mandated Constitution exam is taken in this course.

Advanced Placement United States Government and Politics – 1 CR

Grades 11, 12

Prerequisites: ?

Course Description: AP United States Government develops understanding and analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. It requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. Students are expected to take the AP exam in the spring. The state mandated Constitution exam is taken in this course.

AP Psychology – 1 CR

Grades: 10, 11, 12

Prerequisites: none

Course Description: Advanced Placement Psychology is designed to introduce students to the systemic and scientific study of 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. Students are expected to take the AP exam in the spring.

Sociology – .5 CR

Grades: 10, 11, 12

Prerequisites: none

Course Description: Students will explore the origins of our values/beliefs and behaviors and society's behaviors as well as explore the concepts and theories necessary to understand society. Topics include considering sociology as science, the nature of large-and small-scale groups, social stratification, historical eras and social change, and race, ethnic, and gender relations.

Leadership

Leadership (Drury University) – .5 CR/3 College Credits

Grades: 11, 12

Prerequisites: none

Course Description: This course is available for students with a sincere interest in leadership, how it relates to their current roles as students, and their future roles as productive, professional adults. The primary outcomes for this course will be the development of leadership skills and social action experience. Emphasis will be placed on the study of democratic and political processes, public speaking, goal setting, event and project planning, school service, parliamentary procedure, agenda mapping, committee processes, and meeting facilitation.



Mathematics

The Math Department offers a variety of challenging and interesting courses. Success in these classes can be a gratifying part of an enjoyable high school career. Feel free to seek advice on your course selections prior to enrollment. As there are many courses with a variety of prerequisites, conferring with your math instructor and counselor is advised.

CALCULATORS: Upper level Math and Science courses require a scientific calculator. The recommended calculators for these classes are Texas Instruments with a model number less than 89. Such calculators can be used on both Advanced Placement exams and ACT exams.

Required Mathematics Courses:

Students are required to earn three credits of math in order to graduate. Students must also complete a necessary math End of Course exam. This is exam with either be Algebra I or Algebra II.

Algebra – 1 CR

Grades: 9, 10, 11, 12

Prerequisites: none

Course Description: This course will include operations on real numbers, solve equations and inequalities, analyze various forms of functions (linear, quadratic, absolute value, exponential and sequences) and use introductory statistics to organize and make predictions. This course is the foundation for further mathematical understanding.

Geometry – 1 CR

Grades: 9, 10, 11, 12

Prerequisites: Algebra I

Course Description: This course involves the integration of logical reasoning and spatial visualization skills. It includes a study of deductive proofs and applications from Algebra, an intense study of polygons, and an introduction to Trigonometry. Students will be required to “think visually” while transferring information to real life problems.

Geometry Honors – 1 CR

Grades: 9, 10, 11, 12

Prerequisites: Algebra I

Course Description: A rigorous study of plane and coordinate geometry recommended for the college-bound student. This course will cover areas and volumes of plane and solid figures, coordinate geometry, and basic transformations in addition to the topics discussed in the regular Geometry class. During this intense study, students will develop visual skills and increase their ability to reason logically while preparing for success in higher-level math courses.

Math Applications – 1 CR

Prerequisites: Algebra I and Geometry

Course Description: This course allows students to see the difference between earning wages, earning a salary, working on commission, and operating a small business. Accurate checking and savings accounts are investigated as well as the pervasive and persuasive world of credit through banks and lenders. Calculating the cost of owning and operating a car with the necessity of good automobile insurance will also be discussed. Students explore higher-level mathematics in advanced algebra, probability and discrete math applications which are used to solve real-life problems.

Algebra II – 1 CR

Grades: 9, 10, 11, 12

Prerequisites: Geometry

Course Description: This course includes the study of a variety of functions (linear, quadratic higher order polynomials, exponential, absolute value, logarithmic and rational) learning to graph, compare, perform operations and manipulate them in order to solve, analyze and apply to problems. Students will use probability and statistics to evaluate outcomes of decisions. Students develop rigorous problem solving skills, logical reasoning and mathematical communication skills required for success in higher math courses and real life experiences.

Algebra II Honors – 1 CR

Grades: 9, 10, 11, 12

Prerequisites: Geometry

Course Description: Algebra II Honors course includes all concepts covered in Algebra II at a more rigorous pace and intense level of study. Additional concepts include probability, statistics, and trigonometric functions.

UMKC College Algebra 110 – 1 CR and 3 College Credits

Grades: 10, 11, 12

Optional: Tentative College Credit – See Dual Credit section

Prerequisites: ?

Course Description: Review of elementary algebra, solution of equations, functions, exponential and logarithmic functions, inequalities, systems of linear equations, equations of second degree and their graphs, binomial theorem, complex numbers, and polynomials.

UMKC PreCalc 120 – 1 CR and 5 College Credits

Grades: 10, 11, 12

Prerequisites: College Algebra

Course Description: Review of elementary algebra, solution of equations, functions, inequalities, systems of linear equations, exponential and logarithmic functions, trigonometric functions, trigonometric identities, triangles, equations of second degree and their graphs, binomial theorem, complex numbers, and polynomials.

UMKC Statistics 235 – 1 CR and 3 College Credits

Grades: 10, 11, 12

Prerequisites: College Algebra B or College Algebra

Course Description: An introduction to descriptive and inferential statistics. Organization and presentation of data, averages and variations, elementary probability, random variables, special discrete distributions, normal distributions, sampling distributions, point estimation, confidence intervals, and hypothesis testing.

Advanced Placement Calculus BC – 1 CR

Grades: 11, 12

Prerequisites: AP Calculus AB

Course Description: AP Calculus BC is designed for the serious and motivated college-bound student planning to major in math, science, or engineering. This course is an extension of the previous Calculus class and will prepare students to take the BC test. It consists of an intense treatment of topics in Calculus with heavy emphasis on their theoretical basis. These topics include a continuation of application of integration, integration techniques, L'Hopital's Rule, and improper integrals.

***Graphing calculators are required. See instructors for recommendations.**

Science

Sequencing of Coursework:

Three full credits of science coursework is mandatory to fulfill graduation requirements but four credits of science are highly recommended for college-bound students.

Physical Science – 1 CR

Grades: 9

Prerequisites: none

Course Description: This course is an introductory, general science course that helps students understand structures and properties of matter and changes that occur in the natural world. The first semester of physical science focuses on the study of physics, and covers the nature of science, motion and forces. Newton's three laws, energy, heat, waves, sound, light, electricity and magnetism. The second semester focuses on the study of chemistry, and covers matter, atoms, elements, the periodic table, chemical bonding and reactions, radioactivity, nuclear reactions, and an introduction to organic chemistry. Each semester students will participate in labs and activities.

Physical Science Honors – 1 CR

Grades: 9

Prerequisites: none

Course Description: This course will offer a comprehensive and integrated study of the principles of the physical sciences, which includes physics and chemistry. Major emphasis will be placed on development of problem solving, critical thinking and laboratory skills as they relate to the physical sciences.

Biology – 1 CR

Grades: 10

Prerequisites: none

Course Description: Biology is an introductory life science course which focuses on the interaction of living organisms and their environment.

This course will focus on the diversity of organisms from their chemical properties through their ecological roles in the environment. In this class there will be an emphasis on activities and laboratory exercises that will promote problem solving, refine laboratory procedure, and strengthen reading, writing and math skills. Students will be encouraged to explore personal areas of interest within the topics we explore.

Biology Honors – 1 CR

Grades: 10

Prerequisites: none

Course Description: This course is considered a prerequisite for Advanced Placement Biology and will focus on in depth concepts in Biology. There will be a focus on three main themes: Molecules of Life, Heredity and Evolution, and Organisms and Populations.

AP Biology – 1 CR

Grades: 11, 12

Prerequisites: Biology Honors

Course Description: This course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year of college. Three major areas are covered which include molecules and cell, heredity and evolution and organisms and populations. This is an intense laboratory based course. Students are expected to take the AP exam in the spring.

Environmental Science – 1 CR

Grades: 11, 12

Prerequisites: none

Course Description: Environmental Science is a year-long course designed to show thematic connections between a variety of science disciplines including biology, chemistry, and physics. It gives students a coherent and realistic picture of the applications of a variety of scientific concepts as they manifest in our environment. Students will focus on human population growth, natural resources, and ecosystem dynamics.

Chemistry – 1 CR

Grades: 11, 12

Prerequisites: Physical Science

Course Description: This is a yearlong course in Chemistry which builds upon the introductory material on Chemistry from Freshman year Physical Science. Anticipated topics include: Properties of Matter, Periodic Properties, Chemical Bonding, Chemical Formula and Equation Writing, Stoichiometry, States of Matter, and Acids and Bases.

Chemistry Honors – 1 CR

Grades: 11, 12

Prerequisites: Physical Science

Course Description: Chemistry Honors is an in depth examination of atomic theory and the periodic table, chemical reactions and stoichiometry, and an introduction to organic chemistry. It is suitable for students with an interest in science, especially those who are considering taking AP chemistry. This course is intensive and requires analytical and problem solving skills in preparation for laboratory investigations and instruction of content.

Advanced Placement Chemistry – 1 CR

Grades: 12

Prerequisites: Completed Chemistry or concurrently enrolled in Algebra II

Course Description: Advanced Placement Chemistry is a college level chemistry course, which covers rates of reactions, chemical equilibrium, atomic structure and bonds, KSP, acid-base systems, oxidation- reduction, and qualitative analysis. Extensive laboratory activities are conducted throughout the course and detailed in a laboratory journal.

Students are expected to take the AP exam in the spring.

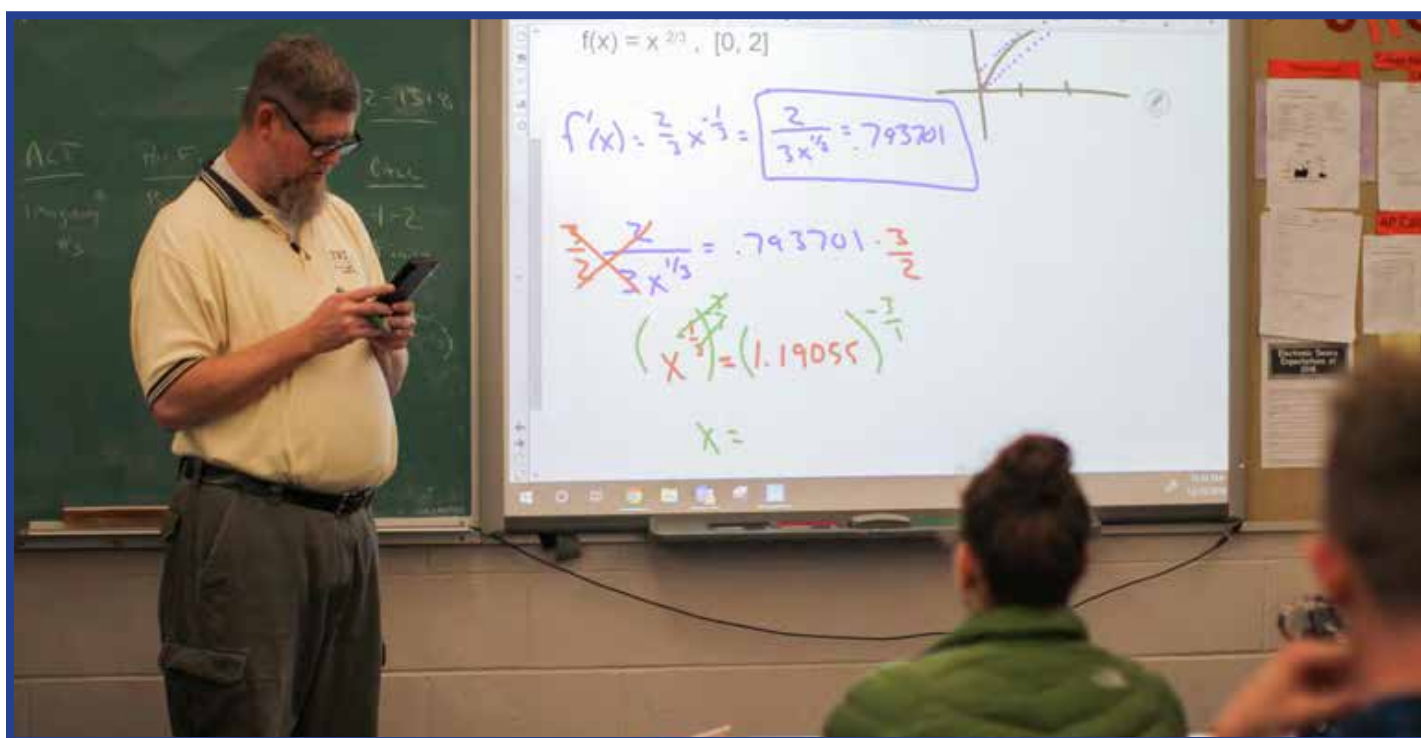
AP Physics – 1 CR

Grades: 12

Not offered in the 21-22 school year

Prerequisites: Two units of science credit and Algebra II. (May be taken concurrently with Algebra II).

Course Description: Physics is a study of the basic physical laws and relationships which explain observations of matter and energy. Upon completion of this course, students will be able to explain many natural phenomena from a physical perspective.



Fire Cadet Program

Introduction to Fire and Emergency Service – 1.5 CR

Grades: 11, 12

Prerequisites: ?

Course Description: Dual-Credit through MCC Fire Program (FSTE 170) Fire: This course is intended as a 40-hr. course that provides introductory classroom and skills instruction in the history and development of the fire service, fire fighter safety and personal protective equipment/SCBA, ladders, fire streams and water supply, forcible entry, search and rescue, and fire control techniques. EMR: This 40-hr. course is offered through the MO Bureau EMS and will provide a basic introduction to the EMS field. Topics include scene safety and rescuer safety, CPR/AED, and other basic medical emergencies. Students completing this portion can test for certificates for EMR, CPR and HAZMAT.

Pre-Cadet Teaching

Pre-Professional Cadet Teaching – 1 CR

Grades: 12

Prerequisites: ?

Course Description: Dual-Credit through UMKC (TEACH-ED 150) Cadet teaching is a capstone course designed to encourage and help high school students who are interested in entering the teaching profession. Cadet teaching (as an elective course) affords students an opportunity to work in the classroom under an experienced, enthusiastic teacher in order to better understand the teaching profession.

Theatre Arts

Theatre Arts – 1 CR

Grades: 9, 10, 11, 12

Prerequisites: none

Course Description: This course is designed for the students interested in the basics of theatre. Students will study an overview of theatre history, acting and directing, technical design and construction, and script analysis and writing. Students will occasionally perform in class. Participation in main stage shows is encouraged, but not required.

Acting – 1 CR

Grades: 9, 10, 11, 12

Prerequisites: none

Course Description: This year-long course offers students the opportunity to further develop their performance skills, focusing on Devised Acting techniques. Devised Acting focuses on scene study, improvisation, directing, movement, and script analysis and writing. Students will write, produce, and perform an original production, which will be open to the public. Students should expect to be challenged.

Participation in main stage shows is encouraged, but not required. This course may be repeated.

Tech Theatre – .5 CR

Grades: 9, 10, 11, 12

Prerequisites: none

Course Description: This course designed to aid students in the basic technical elements of theatre. Areas studied include tools, building of scenery, designing of scenery, costumes, make-up, the basic elements of a publicity campaign, lighting and lighting design, lumber and how to prepare a budget for expenses for a production. Students will help the build production of the main stage shows. Advanced students will have the opportunity to explore an area of specialization and mentor novices. This course may be repeated.

UMKC Theatre Arts 130 – 1 CR and 3 College Credits

Grades: 11, 12

Prerequisites: None

Course Description: Provides a basic foundation of both design and realistic drawing. Basic techniques are presented to encourage personal creativity and a successful beginning artistic experience using a variety of materials and processes. This course prepares students for additional art opportunities in the intermediate courses.

Art

The Art courses provided at Center High School reflect a variety of media, skills, technology, and interests. An art experience can be a way of communicating unlike any other and can allow you to establish your individuality through creative imagination.

Ceramics & Sculpture – .5 CR

Grades: 10, 11, 12

Prerequisites: None

Course Description: Provides a comprehensive study in methods of sculpture, hand-built clay construction and basic wheel throwing techniques. Students explore three-dimensional design while developing both useful and sculptural forms. Creativity and quality craftsmanship are emphasized.

Drawing and Painting – .5 CR

Grades: 9, 10, 11, 12

Prerequisites: None

Course Description: This course promotes commitment to the area of drawing and painting through the study of perspective, still life, texture imitation, figure, portraiture, and design. Various drawing materials are used by students to enhance both realistic and abstract drawing skills. Art history is also used as a basis for some projects.



Computer Art Photography – 1 CR

Grades: 10, 11, 12

Prerequisites: None

Course Description: High school students learn the principles of great design and typography while using professional-grade Adobe design software to create digital drawings, logos, advertisements, magazine layouts, and more. Students complete the week by creating a digital portfolio to showcase their work. No prior art or design experience is necessary for this program

Design – .5 CR

Grades: 9, 10, 11, 12

Prerequisites: None

Course Description: This one-semester course consists of a series of two-dimensional art projects that emphasize the elements and principals of design. Basic composition, color theory, positive- negative space and patterning will be the focus of this survey class. Design is a recommended prerequisite for all other visual art courses and is repeatable with staff recommendation.

Art Honors – .5 CR

Grades: 11, 12

Prerequisites: at least (1) semester of art at CHS and instructor recommendation

Course Description: This highly individualized and rigorous general art course is designed to help students develop the skills necessary to create quality artwork appropriate for a college-entrance portfolio.

Each semester, students will work individually with the instructor to develop and then execute a series of major projects. Possible areas of study include, but are not limited to: art historical inquiry, identity/ cultural studies, and material/process-based technical skills (i.e. drawing, painting, sculpture, ceramics, and photography). Personal initiative, involvement and development are critical for successful completion of this course. Students will be expected to complete regularly assigned out-of-class sketchbook assignments and contribute to formal and informal as well as written and oral critiques. (Art Honors has no formal prerequisite but at least (1) semester of art at CHS and instructor recommendation is strongly advised. It is repeatable with instructor recommendation.)

Music

Marching Band – .5 CR Fall semester

Grades: 9, 10, 11, 12

Prerequisite: By audition

Course Description: Marching Band is open to anyone enrolled in the Center High School Band program. An audition is required prior to enrollment in the course. This ensemble represents Center High School at each home football game, other school activities, in local parades, and in regional competitions. Required rehearsals begin in June and continue in July. There is a two-week camp in August. During the school year daily rehearsals are held each school day during first period. Practice and events inside of the school day are required. Students who participate in Marching Band are eligible to audition for All-District Band and All-State Band. **Students must meet MSHSAA and CHS Extracurricular participation requirements to enroll in this class.**

Concert Band – .5 CR Spring Semester

Grades: 9, 10, 11, 12

Prerequisite: By audition

Course Description: Concert Band is open to anyone enrolled in the Center High School Band program. An audition is required prior to enrollment in the course. During spring the band presents four concerts, hosts a guest clinician, and participates in State Festival. Individual members of the ensemble may participate in District/State Solo and Small Ensemble festival, and participate in honor bands.



Show and Jazz – .5 CR

Grades: 10, 11, 12

Prerequisite: One year experience in a high school choir program.

Course Description: Show and Jazz choir is an auditioned choir that focuses on performance. This class incorporates Modern Pop, Theatre and Jazz music along with staging, choreography and live accompaniment.

Center Choir – 1 CR

Grades: 9, 10, 11, 12

Prerequisite: By audition

Course Description: Members of the Choir are challenged to develop advanced voice skills, music reading skills, and choral singing skills through the study of a variety of musical styles from all periods of history. Participation in at least one performance each quarter is required as well as participation in the District Music Festival and spring concert tour.

Health and Physical Education

The Physical Education and Health Program is an integral part of the school district's total curriculum. It is the goal of this department to meet the physical, mental, and social developmental needs of the students in high school. It is the objective of this program to provide the opportunity for each student to develop a lifestyle that includes regular and vigorous physical activity, good nutrition, a healthy body weight, flexibility, and proper muscle strength. The student should also develop methods of handling stress and have a large repertoire of sports and other lifetime activities for worthy use of leisure time.

Health – .5 CR

Grades: 10, 11, 12

Prerequisites: None

GRADUATION REQUIREMENT

Course Description: Health class through the study of nutrition, fitness, exercise, stress management, disease prevention, substance abuse prevention, and understanding the body systems will enable students to make life long healthy decisions. Content learned in this course will provide foundational knowledge applicable to each student's individual success setting short term and long term healthy living goals.

Foundations of Physical Education – .5 CR

Grades: 9

Prerequisites: None

Course Description: This course applies the principles, practices and the importance of lifelong fitness. Students participate in fitness evaluations to determine fitness goals and participate in a variety of activities to promote overall fitness and health. As a result, students will be able to continue to apply the connection between health and regular physical activity after completing this course. This course cannot be repeated.

Weight Training/Conditioning – .5 CR

Grades: 10, 11, 12

Prerequisite: Foundations of Physical Education

Course Description: This introductory course emphasizes the development of effective weight training and proper lifting techniques. This course includes the concepts of physical education and the development of personal fitness.

Team Sports – .5 CR

Grades: 10, 11, 12

Prerequisites: Foundations of Physical Education or Weight Training

Course Description: Sports and Recreation focuses upon rules, etiquette and skill technique for a variety of sports and recreational activities. Students will participate in fitness testing and fitness activities in the course. Students will experience the connection between personal health and regular physical activity.

Lifetime Fitness – .5 CR

Grades: 10, 11, 12

Prerequisites: None

Course Description: The purpose of this course is to introduce student, both male and female, to a variety of activities both recreational and fitness related. Students will work to improve upon their strength, flexibility and endurance. The emphasis is on lifetime activities where students will set and achieve personal success.

Health and Physical Education continued on the next page

Adapted PE – .5 CR

Grades: 9, 10, 11, 12

Course Description: Adapted physical education (APE) has been modified so it is appropriate for students with disabilities under the Individuals with Disabilities Education Act (IDEA) where all students with an Individualized Education Program (IEP) should receive effective physical education services; therefore, this is not an open class and students cannot enroll in this class without an IEP. Guided by their IEP goals, students will receive special accommodations and modifications specially designed to meet their individual needs. APE will mirror the general physical education curriculum with appropriate modifications and accommodations to meet their personal needs and goals. Emphasis is placed on instruction in fundamental physical and locomotor skills, patterns, and motor development along with personal fitness, leisure and intramural activities and sports, and social skills.

