

**Believe in**



**University City High School**  
**Career and Education**  
**Planning Guide**

**2019 - 2020**

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## **PREFACE**

University City High School (UCHS) had designed the UCHS Career and Education Planning Guide to help parents and students choose the best possible program of study based upon a student's aspirations once he/she has graduated from high school. The UCHS faculty has ensured that students have access to a well-rounded high school curriculum consisting of core courses in English language arts, mathematics, social studies and science, in addition to a second language, physical education, the arts and career and technical education. The faculty further ensures that the current curriculum offers both the substance and the practicality needed to prepare students for their future careers.

Course selection is a cooperative endeavor involving students, parents, teachers and counselors. Parents and students are encouraged to read this Planning Guide and jointly make decisions regarding course selection.

The UCHS Career and Education Planning Guide provides a brief description of material to be studied in each course. Because choosing the right courses often requires making difficult decisions, it is suggested students and parents follow the steps listed below:

- Before making course selections, the student should speak with a counselor about credits earned and discuss any concerns or questions in regards to their current course of study;
- Preview the entire UCHS Career and Education Planning Guide with particular attention to the Educational Development Plan, Graduation Requirements, and Preparing for Post University City High School; and
- Make course selections jointly that are academically appropriate for the student's course of study, as determined by the student's chosen career pathway.
  - *Please note that final course offerings may be determined based on a minimum of 15 students seeking enrollment in a course.*

## **INDIVIDUAL CAREER AND ACADEMIC PLAN AND COURSE SELECTION PROCESS**

The UCHS Career and Education Planning Guide assists students and parents with registration for the upcoming school year and helps students choose a program of study, including four years of high school and the year following graduation. UCHS urges students and their parents to read the course descriptions carefully to ensure the course relates to the student's educational and vocational objectives, interests, and abilities. Attention should be given to prerequisites (courses needed prior to a course being taken) and the grade level required for each course. The counseling department will explain the procedures for course selection and course registration starting in January of 2019. Students should give considerable thought to the career pathway and course selection process and are urged to seek assistance from parents, teachers, and school counselors in determining the courses that will best prepare them for their future educational and/or occupational goals.

Academic advisement should be an ongoing process with final course submission completed by mid-February. Students will be able to review choices submitted and make course changes once schedules are distributed – usually by mid-Summer.

Students will work closely with their counselor to develop their "Career Pathway" program of study, which will provide an opportunity to develop, monitor, and manage an educational plan through a structured, systematic individual planning system. This process begins in eighth grade and is monitored by the school counselor.

Contact the Guidance Office with any questions or concerns.

## GRADUATION REQUIREMENTS

The requirements for graduation are as follows as established by the University City Board of Education in accordance with the Missouri Department of Elementary and Secondary Education:

SUBJECT AREA	CREDITS (Years)	Recommended for Students who wish to attend 4 year Colleges
English Language Arts	4	4
Mathematics	3	4
Science	3	3-4
Social Studies * .5 Government, 1 credit US History	3*	3-4
Fine Arts	1	1
Practical Arts	1	1
Physical Education	1	1
Health Education	0.5	
Personal Finance	0.5	
Electives <i>General (4 Credits)</i> <i>Core (3 Credits in English language arts, mathematics, science and/or social studies)</i>	7	
World Languages		2
<b>TOTAL</b>	<b>24</b>	

## PROMOTION REQUIREMENTS

Grade level is assigned upon completion of minimum credits.

- Freshman (9th grade) 0-6 credits  
To be promoted to the high school, eighth graders are required to pass four of the following five required courses: communication arts, mathematics, social studies, science, and either world language or reading.
- Sophomore (10th grade) 6-12.5 credits  
Students must have six credits to be assigned sophomore classification.
- Junior (11th grade) 12.5-18 credits  
Students must have twelve and one half credits to be assigned junior classification.
- Senior (12th grade) 18 + credits  
Students must have eighteen credits to be assigned senior classification.

## PLANNING FOR COLLEGE

Because many University City High School (UCHS) students elect to go on to college, there is an extraordinary amount of information about colleges available in the Guidance Office. Open files, college catalogs, college/career information CDs, the Internet, and computer programs can help students learn about the opportunities available in post-secondary education. In addition, more than 100 college representatives visit UCHS throughout the year. Career counseling resources include various interest inventory tests, computer-guided career exploration, and assorted books and periodicals. Each junior will be given access to the SCOIR program through the college resource office. This program allows students to submit their college applications online, as well as receive additional information about colleges in which they are interested. The counseling staff can help students define career possibilities and college choices relative to career goals. Financial aid and scholarship information is available for all students. Financial aid workshops are also offered in the Fall and Spring semesters.

## **MIDDLE SCHOOL COURSES ON HIGH SCHOOL TRANSCRIPT**

Algebra, Geometry and world Language Courses taken in Middle School will appear on a student's high school transcript for record-keeping purposes. Algebra and Geometry will appear as a credit towards graduation but will not be included in a student's GPA calculation. world Language courses will appear on the transcript for reporting purposes only, but will not be included in credits toward graduation or GPA calculation.

## **COLLEGE BOUND**

College Bound provides promising high school students with the academic enrichment, social supports, and life skills needed to apply, enroll, and succeed in four-year colleges. The College Bound program begins in the spring of freshman year and select students remain in the program throughout high school and college. The program includes weekly, off-campus sessions focused on college knowledge, financial literacy, career exploration, weekend study sessions at Washington University, summer programs on college campuses, ACT prep, assistance applying for financial aid, college tours, application assistance, internships, community service, cultural field trips, and support for students in college.

Prerequisites include 2.5+ cumulative GPA, entering sophomore or junior year and must be enrolled or willing to enroll in college prep courses.

## **MISSOURI CONNECTIONS**

<https://www.MissouriConnections.org>

Missouri Connections is a web-based resource to help Missouri citizens determine their career interests, explore occupations, establish education plans, develop job search strategies, and create resumés. Sponsored by the Department of Elementary and Secondary Education and the Department of Economic Development, Missouri Connections is available to students, parents, guidance counselors, educators, and job seekers.

## **SCOIR**

<https://www.scoir.com/>

University City High School uses SCOIR's college networking platform, which provides college and scholarship information to families. Through this secure website, families will be able to:

- View and edit personal profile and parent information;
- Indicate notable accomplishments;
- Indicate scholarships received and amounts;
- View and add to their college application list;
- Indicate interest levels in specific colleges;
- Check application deadlines for colleges;
- Update application information;
- View a list of the upcoming college visits;
- Register to meet with college representatives visiting UCHS;
- View a list of local scholarships received by UCHS (and download some applications);
- Review details on deadlines, maximum award, and requirements for each scholarship;
- Access a list of other web-based resources related to colleges and financial aid;
- Send an email to the guidance counselor;
- Investigate careers; and
- Contact the Guidance Office for registration information and access.

## GRADING

The grading scale is based on the goals, objectives, and skills to be achieved by students as developed by the staff members in each department. The basic grading scale is used for all reports and consists of grades as shown below.

Letter Grade	Numerical Grade	Grade Point Average	Meaning
A	90-100%	4.0	Outstanding achievement of the goals, objectives, and skills of course
B	80-89%	3.0	Very good achievement of the goals, objectives, and skills of course
C	70-79%	2.0	Satisfactory achievement of the goals, objectives, and skills of course
D	60-69%	1.0	Minimum achievement of the goals, objectives, and skills of the course
F	below 60%	0.0	Minimum achievement not met
CR	--	--	Satisfactory completion of course
NC	--	--	Unsatisfactory completion of course
I	--	--	Incomplete course; the student is given a set period of time to complete missing work.

Semester grades are calculated by averaging term grades and the final exam.

## PRE-AP AND DUAL CREDIT/DUAL ENROLLMENT COURSES

Pre-AP classes engage students in active, high-level learning, thereby ensuring that students develop the skills, habits of mind, and strategies to succeed in Advanced Placement, Dual Credit and Dual Enrollment courses. Pre-AP courses offered at UCHS include:

- Honors Lit II
- Pre-AP Calculus
- Pre-AP Biology
- Pre-AP Chemistry
- Pre-AP World History

## ADVANCED PLACEMENT PROGRAM

Advanced Placement (AP) courses follow a national curriculum provided by The College Board, the publishers of the SAT college entrance exam. These courses give students the opportunity to earn college credit while still in high school. Each May, AP exams are offered to students as they complete their coursework. Students earning a minimum score on the exam will receive either elective credit or course replacement credit, depending on the college or university policy. Parents and students are encouraged to review these policies on the college website for the colleges in consideration. These are college-level courses that reflect a student's willingness to follow the demands and rigor of college-level studies. AP courses assist students in stretching themselves to think and learn at a higher level and will help students stand out in the college admission process. A fee is required for each AP exam. The following AP courses are offered at UCHS:

- AP Biology
- AP Calculus AB
- AP Calculus BC
- AP Chemistry
- AP Computer Science Principles
- AP Computer Science A
- AP Physics
- AP Language and Composition
- AP Literature and Composition
- AP Latin
- AP Spanish
- AP Studio Art: Drawing
- AP Government
- AP U.S. History
- AP World History
- AP Psychology

The cost of the AP exam is approximately \$84. Many students may qualify for a reduced rate based upon need.

## GRADING IN PRE-AP AND ADVANCED PLACEMENT COURSES

Pre-AP, dual credit, dual enrollment, PLTW and Advanced Placement course grades are calculated into a student's Grade Point Average on a weighted scale. Below is the weighted scales for GPA calculation.

### Honors and Pre-AP Courses

A = 4.5  
B = 3.5  
C = 2.5  
D = 1.0  
F = 0

### AP and Dual Credit/ Enrollment, PLTW Courses

A = 5.0  
B = 4.0  
C = 3.0  
D = 1.0  
F = 0

## CREDIT AND NO CREDIT

Any student enrolled in University City High School may select one course each semester to receive credit or no credit for the course. Students who select the option of credit/no credit are expected to participate in the class and fulfill the requirements of the course. The teacher will grade the student by indicating that s/he receives credit for the course, or that s/he receives no credit for the course. In either case, the results of the student's effort will be recorded on the permanent record as follows:

- CR: Indicates satisfactory completion in the course and credit will be given
- NC: Indicates failure in the course taken and no credit will be given

A course taken for C/NC will not be used in computing the grade-point average or class rank.

All students who select the option of C/NC will have six weeks to complete the proper form and submit to Guidance. C/NC forms are available in Guidance.

## INDEPENDENT STUDY

Students may apply to take one course per semester of independent study for credit. An application for independent study must be approved by the student, parent, teacher, department chairperson, counselor, and Guidance Department. Independent study may be arranged for courses that are offered but cannot be scheduled due to irresolvable conflict. (This is a rare case.) See the counselors to determine eligibility for a course. Faculty members who sponsor students on independent study are responsible for complete, specific information on the Independent Study Form. Teachers are also responsible for documenting that the contracted readings, assignments, and conferences are completed before awarding credit for the study. In no instance is an independent study credit to be awarded without adequate performance. Independent Study Forms can be obtained from the guidance office.

**THE FORMS MUST BE COMPLETED AND SUBMITTED BY THE THIRD WEEK OF THE SEMESTER.**

## ONLINE LEARNING: EdGENUITY

Edgenuity is a computer-based instructional program designed to provide students with the opportunity to fulfill requirements for graduation through credit recovery of a previously failed course. All course work is aligned to Missouri state standards and the Common Core standards. Students are able to learn at their own pace and make meaningful academic gains. Edgenuity provides learning opportunities for students in traditional, non-traditional, at-risk, homebound, or other alternative settings to recover credits through online courses in a flexible and engaging environment. Counselors and administrators can assign, monitor, and assess student progress through management, tracking, and reporting tools.

Edgenuity provides classes for students in grades 9-12 in the elective and core content areas including mathematics, science, language arts, and social studies courses. Enrollment requirements are as follows:

- Student may be enrolled in Edgenuity courses for credit recovery or advancement.
- Student may be enrolled in the Edgenuity class during the regular school schedule in lieu of an elective class.
- Student may also be enrolled outside the school day for credit recovery.
- Attendance guidelines for online classes offered during the school day will be the same as regular classes.
- Student may not be enrolled for more than two (2) courses at one time unless needed for graduation.
- Student will be subject to the student conduct code while working online.
- If a student is enrolled in the course during the day, student will be assigned to the computer lab. The teacher/computer lab aid will help with technical problems but does not instruct the student. The teacher will take attendance, help with any problems accessing the course or online materials, any technical issues, or computer problems.

- Edgenuity does not meet NCAA Clearinghouse standards of eligibility.

## **ONLINE LEARNING: LAUNCH**

<https://fueledbylaunch.com/>

Launch is Missouri's solution for course access issues for school districts and families in need of flexible and personalized learning options. Launch courses meet both individual student needs and the needs of districts seeking to provide virtual course options for their students. Course options are available online and in a detailed course catalogue. See Guidance for more information.

## **LIEBERMAN LEARNING CENTER**

The Lieberman Learning Center (LLC) is an option that provides a learning experience for students apart from the traditional high school environment. The goal of the program is to provide an opportunity for students to continue earning credits during a period in which they may experience difficulty in meeting expectations and requirements of the traditional high school. The LLC will provide:

- Flexible schedules,
- Smaller class sizes,
- An opportunity for more individualized instruction, and
- An opportunity to earn credit through employment and/or community service.

The program is not intended for first-year freshmen. Students will be admitted to the program through an application process. A student, parent/guardian, counselor, social worker, or administrator can initiate an application through the guidance office. After the counselor has spoken with the student and a parent/guardian, the application is sent to the LLC, along with a copy of the student's transcript, and attendance and discipline records. The application is then evaluated based upon the number of specific credits needed to determine if the LLC can assist the student. Students are then notified of acceptance into the program. All students accepted into the program must then have a student parent/guardian conference with the program administrator prior to being admitted.

Applications are accepted by June 1 for the fall semester and by December 15 for second semester. Student acceptance for second semester will be based on available space.

## **EARLY SENIOR GRADUATION**

Seniors may depart from school before their anticipated graduation date if the criteria detailed below have been met.

- All graduation requirements have been fulfilled.
- Written parental consent is submitted to the guidance counselor.
- The student makes a formal application at least one semester before the proposed completion date. Late applications are accepted only if extenuating circumstances merit special consideration.

S/he is considered a student of University City High School until the graduation ceremony in May. As such, s/he may participate in all student activities during the second semester that do not require regular attendance in school. All fees must be paid prior to graduation. Final approval for early graduation is made by the administration in conjunction with the counselor. If interested, see the counselor for an early graduation application form.



## **DESCRIPTION OF TESTS**

The University City School District offers testing sites within the district for many of the tests listed below. Please contact the Guidance Department at school to obtain information regarding testing dates, sites, and costs. The Guidance Department also offers a number of resources to help students prepare for the tests.

### **Missouri and U.S. Constitution Tests**

Per the Department of Elementary and Secondary Education, to be eligible for graduation from high school, a student must satisfactorily pass a test or tests on the provisions and principles of the U.S. and Missouri constitutions in order to graduate. At University City High School, the tests are administered in U.S. Government courses.

### **End-Of-Course Exam (EOC)**

As part of the Missouri Assessment Program, UCHS requires End-of-Course (EOC) assessments in the subject areas of Algebra I, Algebra II (if Algebra I was taken in 8th grade), Lit & Comp II, Biology and Government. EOC assessments are taken when a student has received instruction on the course-level expectations for an assessment, regardless of grade level.

### **PSAT/NMSQT (11<sup>th</sup> Grade)**

#### **Preliminary Scholastic Aptitude Test/ National Merit Scholarship Qualifying Test (PSAT/NMSQT)**

The PSAT/NMSQT measures verbal, writing, and mathematics reasoning skills important for academic success in college. It serves three purposes:

- It gives the student practice for SAT I,
- It is the first step in qualifying for scholarships sponsored by the National Merit Scholarship Corporation and other scholarship programs, and
- It gives the student the opportunity to participate in the Student Search Service.

This test is approximately two hours in length and is primarily taken in the junior year. Sometimes it is appropriate for the student to take this test during his/her sophomore year for practice. Students should consult their counselors for additional information.

### **SAT I & II (11th-12th Grades)**

#### **SAT I: Reasoning Test (Scholastic Aptitude Test)**

SAT is an assessment used to predict students' performance in college. Required by some schools as part of the application process, this test has three sections — verbal, mathematics, and writing. Questions in the verbal section are divided into reading passages, analogies, and sentence completion. Questions in the mathematics section cover standard multiple-choice, quantitative comparisons, and grid-in answers. The Writing Test is an essay based on a prompt. The Guidance Office can provide the student with additional information or students can go to [www.collegeboard.org](http://www.collegeboard.org). It is recommended that students take this test during their sophomore or junior year.

## **SAT II: Subject Tests (College Board Achievement Tests)**

The SAT II: Subject Tests are designed to find out how well the student has mastered specific subjects. Tests are offered in the areas of communication arts, history, world language, mathematics, and science. There are three purposes for taking these tests:

- Allows the student to demonstrate mastery of specific subjects,
- Assists colleges in their admission decisions and helps the student to determine his/her college preferences, and
- Provides choice of and placement in entry-level courses.

## **ACT (11th-12th Grades) American College Testing Program**

The ACT consists of four examinations in communication arts, math, reading, and science reasoning, each of which yields separate scores measuring developed abilities in those areas. The test is required by some colleges as part of the application process for admission. The ACT assessment also offers an optional writing test. Check with colleges to determine if they require this assessment. The Guidance Office can provide the student with additional information.

NOTE: Seniors must enroll in World Literature if not meeting the college readiness benchmark on the ACT. Seniors must also enroll in College Prep Algebra or another mathematics course if not meeting the college readiness benchmark on the ACT or other assessments, such as End of Course Exams, by senior year.

## **ACT WorkKeys Assessment**

ACT WorkKeys is a job skills assessment system that helps employers select, hire, train, develop, and retain a high-performance workforce. This series of tests measures foundational and soft skills and offers specialized assessments to target institutional needs.

As part of ACT's Work Readiness System, ACT WorkKeys has helped millions of people in high schools, colleges, professional associations, businesses, and government agencies build their skills to increase global competitiveness and develop successful career pathways.

Successful completion of ACT WorkKeys assessments in Applied Mathematics, Locating Information, and Reading for Information can lead to earning ACT's National Career Readiness Certificate (ACT NCRC), a portable credential earned by more than 2.3 million people across the United States.

Source: <http://www.act.org/products/workforce-act-workkeys/>

## **Armed Services Vocational Aptitude Battery (ASVAB)**

Parents interested in having their son or daughter take an aptitude and career interest test should encourage students to sign up for the Armed Services Vocational Aptitude Battery (ASVAB). The Missouri Department of Elementary and Secondary Education has this to say about the ASVAB: "The Armed Services Vocational Aptitude Battery (ASVAB), the most widely used multiple aptitude battery in the United States and the most up-to-date, provides measures of aptitudes for general academic areas and for career areas that encompass most of the civilian as well as the military world. It is an excellent and useful test for all high school students' grades 10 through 12." The UCHS Guidance Office has information about this valuable test. The ASVAB is free with no military obligation attached.

NOTE: In addition to the tests described above, some colleges require their own on-campus placement tests before college enrollment is completed. UCHS suggests that each college-bound student explore the issue of college-related testing with the UCHS Guidance Department.

## ACCUPLACER Placement Test

St. Louis Community College uses Accuplacer Placement Test, an untimed, computerized placement test to evaluate academic skills and place students into appropriate courses. Placement Test scores indicate areas in which students are strong and areas in which they may need help. Following testing, you and your advisor or counselor can review your results and determine coursework that will be appropriate to your academic skills and chosen program of study.

The Accuplacer Placement Test is required of all students unless academic credentials are submitted that qualify students to take such courses without testing. STLCC may waive all or part of the placement test if students provide written documentation of one of the following:

- A college transcript or grade report documenting successful completion (with a grade of "C" or higher) of reading, writing or mathematics course prerequisites
- A college degree from an accredited institution
- An ACT score earned within the last three years documenting:
  - A reading score of 18 or above to waive the reading test
  - An English score of 18 or above to waive the writing test
  - A math score of 23 or above to waive the math test
- An SAT score earned within the last three years documenting:
  - A critical reading score of 500 or above to waive the reading and writing tests
  - A math score of 580 or above to waive the math test

In addition, some selective admission programs may require additional assessment exams or skills tests.

If you cannot document that you have met the alternative assessment criteria noted above, you will be required to take the appropriate placement test(s) through STLCC before enrollment.

If you have a disability that requires accommodations for the entry assessment, please call the Access office at the campus or school of your choice for an appointment prior to testing. Documentation will be required.

For more information about the Accuplacer placement test, view the preparation video and the online guide.

Call or visit the Assessment Center at the campus of your choice to obtain the testing schedule.

### **Florissant Valley**

Admin Building, First Floor  
314-513-4292

### **Forest Park**

E-219  
314-644-9233

### **Meramec**

Communications North 122  
314-984-7596

### **Wildwood**

Student Services Area  
636-422-2000

## DUAL CREDIT

Dual Credit is an opportunity for qualified junior and senior students to enroll in college courses that earn both high school graduation and college credit simultaneously without having to leave the high school campus. Dual Credit is a platform that provides for a seamless transition from secondary to postsecondary education. It involves close collaboration between high school and college educators through ongoing communication and planning for an integrated program of study. There are several benefits and challenges associated with dual credit courses.

### Benefits:

- Provides a head start on postsecondary core requirements
- Lowers cost of college (credits earned are discounted to the student)
- Extends the variety of classes available to high school students
- Provides greater opportunity for a coordinated, seamless education
- Serves as a “controlled” introduction to college life
- Allows increased and easier transition to college.

UCHS offers the following courses for dual credit at the high school.:

- Human Anatomy and Physiology (Biology 109)
- Principles of Engineering
- College Composition I and II (English 101/102)
- Restaurant Management II
- Intermediate Algebra (Math 140)
- Music Appreciation (Music 114)
- Introduction to Theater (Theater 101)
- US History to 1865 (US History 101)
- US History from 1865 to Present (US History 102)

## DUAL ENROLLMENT

Dual enrollment is an option available to senior students. Students may enroll in a college-level course for college and/or high school credit while attending their senior year of high school. Enrollment in a class that is below college level will be taken for high school credit only. To be eligible, seniors must:

- Have a cumulative 2.0 GPA or higher;
- Have met or are meeting all graduation requirements through the regular high school program; and
- Enroll in a college course that is not available in the high school program, either because it is not offered or because of a conflict of time in the schedule.

Dual enrollment is available through the University of Missouri-St. Louis, St. Louis Community College, and Harris Stowe State University, as well as other area colleges. This option is open to seniors only and requires parent, counselor, and administrator approval prior to enrollment. Dual Enrollment Forms should be obtained from the guidance office. As most college and university semesters do not coincide with high school calendars, forms must be completed and submitted by the colleges' deadlines.

To arrange dual enrollment, students must meet with their counselor after locating the course they wish to take. The counselor will examine records and write the permission letter for all qualifying students. Students will earn 1 high school credit for 5 credit hour college courses and .5 high school credit for 3 credit hour college courses.

## EARLY COLLEGE EXPERIENCE

Identified rising juniors will receive a personalized invitation and application to participate in the Early College Experience, an early-entrance-to-college program that allows students to earn college credit towards an associate degree while still in high school at no cost to the family. Students will take dual enrollment courses at St. Louis Community College-Forest Park beginning the summer between their sophomore and junior year. As juniors, participating students will take dual enrollment courses at UCHS. As seniors, they will complete their coursework on the STLCC-Forest Park campus. Successful candidates can graduate with not only a UCHS diploma, but also an associate's degree in general studies. This opportunity allows high performing and exceptional students to socialize and study in a learning community of peers. Applications are due in early March of sophomore year. For more details contact: Dr. Samuel Martin, Dean of Students, [stmartin@ucityschools.org](mailto:stmartin@ucityschools.org) or call 314-290-4104.



## SAINT LOUIS COMMUNITY COLLEGE ARTICULATED CREDIT

**What is articulated credit?** Articulated credit is college credit earned while a student is in high school. The credit is awarded for a high school course that is associated with a comparable college-level course, for which there is a signed articulation agreement developed by St. Louis Community College (STLCC) faculty and agreed upon by administration at both the high school and college level. Articulated credit can be applied at STLCC toward an Associate in Applied Science degree or certificate program.

### **What classes at University City High School are articulated with STLCC?**

- Accounting
- Child Development
- Parenting
- Computer Applications I & II
- Culinary Arts I & II
- Drafting Design
- Introduction to Engineering Design
- Principles of Engineering

### **So if I take these courses and earn articulated credit can it only be applied to STLCC?**

Yes. These articulation agreements are exclusive with STLCC Career and Technical Education programs. These credits are not transferable to other colleges or universities.

### **If I take these courses and earn these credits, do I have to pay for them at STLCC?**

No, if students earn the credit at UCHS, then they are college credits earned FREE of charge! But students will only be eligible to use the articulated credit within three years of graduating from UCHS.

### **What must I do to earn the articulated credit other than being enrolled in the course at UCHS?**

Students must earn a "B" or better.

### **How can I get more information?**

Check with a guidance counselor or a faculty member in the CTE Department.

## A+ ADVANTAGE

Missouri's A+ Program provides scholarship funds to eligible graduates of A+ designated high schools, such as University City High School, who meet certain A+ requirements / criteria and choose to attend a participating public community college, vocational/technical school or state university. Educational incentives for participating institutions will be provided as long as state funds are appropriated by the legislature.

UCHS students are encouraged to enroll in the A+ Program during their freshman year to allow students and parents to receive information on the A+ Program from the A+ Coordinator. Interested seniors must enroll in the A+ program no later than January in order to complete the 50 required hours of tutoring/mentoring before graduation.

As of January 2015, A+ candidates must graduate with a grade point average (GPA) of at least 2.5 on a 4.0 scale, maintain at least a 95 percent cumulative attendance record in grades 9-12, maintain a good record of citizenship in alignment with the school's citizenship requirements, have at least a 17 or above on ACT Math, 43 on COMPASS pre-algebra or 1 on COMPASS algebra exams and perform at least 50 hours of unpaid tutoring/mentoring to other students that is verified by the high school's A+ coordinator.

Students interested in participating in the A+ Program should contact UCHS' A+ coordinator, Linda Pritchard at [lpritchard@ucityschools.org](mailto:lpritchard@ucityschools.org) or 314-290-4100 ext. 2102. More information about the A+ Program including A+ Agreement, A+ Partnership Plan and A+ Manual are available at [uchs.ucityschools.org](http://uchs.ucityschools.org).

## THINKING ABOUT TECHNICAL SCHOOL?

North and South County Technical High Schools offers students in grades 10-12 the opportunity to earn professional licenses and certifications, college credits through articulation and dual enrollment agreements, and advanced placement in 12 apprenticeship programs. Course offerings range from traditional technical fields, such as precision machining and construction, to high-demand fields such as health sciences and network administration. Students must complete an application for admission. For additional information, please see a guidance counselor and visit [www.sssdmo.org/ssd\\_services/tech\\_ed.html](http://www.sssdmo.org/ssd_services/tech_ed.html). A complete list of courses is listed below delineated by career cluster.

### Advanced Manufacturing

- Precision Machining
- Welding

### Arts and Communication

- Architectural Design and Geospatial Technology
- Fashion Design
- Graphic Design
- Graphic Production and Printing

### Business and Information Technology

- Business and Financial Management
- CISCO Networking Academy
- Hospitality, Tourism and Event Planning
- Web and Computer Programming

### Construction

- Carpentry
- Construction Trades
- Electrical Trades
- Heating, Ventilation and Air Conditioning
- Plumbing

### Human Services

- Cosmetology
- Culinary Arts
- Early Childhood Education

### Medical, Plant and Animal Sciences

- Health Science
- Landscaping and Horticulture
- Veterinary Assistant

### Public Safety

- Emergency Medical Technician
- Firefighting
- Homeland Security
- Law Enforcement

### Transportation

- Auto Body
- Automotive Technology
- Diesel Technology



## **PATHWAY TO ENGINEERING**

The Project Lead the Way (PLTW) Pathway to Engineering (PTE) program is a sequence of courses that follows a proven hands-on, real-world problem-solving approach to learning. Throughout PTE, students learn and apply the design process, acquire strong teamwork and communication proficiency and develop organizational, critical-thinking, and problem-solving skills. Students discover the answers to questions like how are things made and what processes go into creating products?

Students use the same industry-leading 3D design software used by companies like Intel, Lockheed Martin and Pixar. They explore aerodynamics, astronautics and space life sciences. Students apply biological and engineering concepts related to biomechanics, such as robotics. They design, test and actually construct circuits and devices such as smart phones and tablets and work collaboratively on a culminating capstone project. Project Lead the Way is STEM (Science Technology Engineering and Mathematics) education and is at the heart of today's high-tech, high-skill global economy.

Course offerings include, Introduction to Engineering Design (IED), Principles of Engineering (POE) and Computer Science Principles (CSP) and Engineering Design and Development (EDD).

## **BIOMEDICAL SCIENCES**

Professionals in biomedical science are tackling some of the biggest health challenges in order to make the world a healthier place. By discovering treatments for cancer or engaging in healthy lifestyle choices with their communities, biomedical professionals are making a difference.

PLTW Biomedical Science students are taking on these same real-world challenges - and they're doing it in before they even graduate from high school! Working with the same equipment and tools used by lab professionals, PLTW Biomedical Science students are empowered to explore and find solutions to some of today's most pressing medical challenges. Through scaffolded activities that connect learning to life, students step into the roles of biomedical science professionals and investigate topics including human medicine, physiology, genetics, microbiology, and public health. Students work together in teams to find unique solutions, and in the process, learn in-demand, transferable skills like critical thinking and communication.

Course offerings include, Principles of Biomedical Science (launching in the 17-18 SY), Human Body Systems (18-19 SY), Medical Interventions (19-20 SY) and Biomedical Innovation (20-21 SY).



# UCHS NAF ACADEMIES

<https://www.ucityschools.org/NAF>

## What is NAF?

NAF solves some of the biggest challenges facing education and the economy by bringing education, business, and community leaders together to transform the high school experience. Since 1982, NAF has been partnering with existing high schools across the country to help students prepare for successful careers by implementing NAF academies. Our five career themes enable NAF students to #BeFutureReady in any field they choose, all while providing them real-world experience through internships and other work-based learning opportunities.

## NAF at UCHS

UCHS will launch two NAF Academies in the 19-20 school year, including the *Academy of Engineering and the Academy of Health Sciences*. Both Academies will build on our Project Lead the Way programs and provide students who complete the programs with a lifetime NAFTrack Career Certification. NAFTrack Certification will provide students with preferential interviews and hiring at major corporations that partner with NAF, including Master Card, World Wide Technology, and Hewlett-Packard to name a few.

NAFTrack Certified students will have completed a rigorous program of study in their chosen field and successfully participated in a paid, 120 hour internship.

## Benefits for Students

As a NAF student, you are one of more than 100,000 current students from 36 states! When you graduate, you will be part of a national network full of fellow future-ready alumni at different stages in their career. You have access to tons of exclusive opportunities, including scholarships and preferential hiring at prestigious multinational companies. We are committed to helping you prepare for a successful career and future, and we have resources to help you every step of the way. The promise of NAF doesn't end at high school graduation – it's just beginning. The benefits of being a NAF student include:

- Access to scholarship opportunities for undergraduate and graduate school
- Curriculum developed with the help of industry leaders
- Potential paid internship opportunities
- Opportunities to network with businesspeople
- Mentorship opportunities with successful NAF alumni
- Exclusive NAF networking and alumni events
- Preferential hiring at companies that recognize NAFTrack Certification



THE SCHOOL DISTRICT OF UNIVERSITY CITY

**BE FUTURE READY**



## ATHLETIC ELIGIBILITY

University City High School is a member of the Missouri State High School Activities Association (MSHSAA) and abides by all the rules and regulations pertaining to eligibility for student-athletes and the rules and regulations as established by the Association. The School District of University City has placed increased standards on student-athletes and expects all participants to meet both MSHSAA and District guidelines for participation.

- Participation in athletics and activities is considered a privilege and not a right.
- Students must be considered a “credible citizen” to be eligible to compete. This includes actions at school and in the community and is in effect 365 days a year.
- MSHSAA Academic Eligibility Standards require that students be enrolled in a minimum of 3.0 credits (6 classes) in the semester they compete.
- MSHSAA Academic Eligibility Standards require that students pass a minimum of 3.0 credits (6 classes) the semester prior to competition. (Summer may be included.)
- University City High School requires students that have below a 2.5 cumulative GPA to attend academic tutoring and be enrolled in the Academic Improvement Program (AIP) in order to gain the privilege of competition.
- If students are not permitted to attend school for disciplinary reasons, they are not allowed to participate in interscholastic athletics. Students that receive Out-of-School Suspension (OSS) may not practice or compete until they complete a full day of attendance. Students that receive In-School Suspension (ISS) may practice but not compete until they complete a full day of attendance.
- Students must report all arrests and actions taken by law enforcement to their Athletic Director within 24 hours (excluding traffic violations) to determine if the action will have an effect on athletic eligibility.
- If a student-athlete is absent after the completion of first period, they may practice but not compete until they complete a full day of attendance. Students absent on Fridays may not compete over the weekend. Absences may be approved by the Athletic Director in rare cases if permission is granted in advance, such as for a doctor’s appointment, college visit, funeral, etc.
- Students who represent University City High School by participating in interscholastic athletics may not compete as members of a non-school team in the same sports season. Students may compete with an organized non-school team in a different sport if there is no practice or competition for the in-school team on that day.
- Students must maintain their amateurism and may not accept any award directly tied to athletics or performance in excess of \$25.
- Students and parents are required to read and abide by the “Student-Athlete Handbook” located on the District website at [uchs.ucityschools.org](http://uchs.ucityschools.org).

**\*\* See the Athletic Director for additional information or any questions \*\***

### High School Eligibility FAQs

In order to play sports at the high school level, a student must earn a minimum of 3.0 credits in the prior semester to participate in MSHSAA sanctioned Activities and Athletics. In addition, the student must have a [Pre Participation Physical Evaluation](#) completed by a physician, parent and student.

The simplest way to avoid losing your eligibility and playing in college is to maintain good grades.

Here are some common questions about high school eligibility:

When do we calculate the credits?

Credits are calculated on the last day of the semester. This means that once the semester is over, a student can not turn in more work to get a passing grade.

Can I take an incomplete to make up work and still be eligible?

No, an incomplete means that you did not earn a credit. Therefore, you would not be eligible for the next semester.

How does E2020 work?

These courses must be completed by the last day of the semester to count for next semester. However, these courses do not count toward your NCAA eligibility.

What about summer school?

During the summer you can earn up to one (1.0) credit toward eligibility for the next semester. However, the course must count toward a graduation requirement and if it is an elective, it must be in a core content area: science, social studies, math and/or English. You can not take an extra P.E. class during the summer to count for eligibility purposes. E2020 must be completed by the last day of summer school in order to count for eligibility.

I regained/lost my eligibility, what now?

On the fifth day of school on the next semester, you will be eligible/ineligible to participate in games.

# **NATIONAL COLLEGE ATHLETIC ASSOCIATION (NCAA)**

## **ELIGIBILITY STANDARDS**

### **Core Courses:**

NCAA Division I requires 16 core courses. This rule applies to any student first entering any Division I college or university. NCAA Division II requires 14 core courses.

Note: Division II will require 16 core courses beginning August 1, 2013.

### **Test Scores:**

- Division I has a sliding scale for test score and grade point average.
- Division II has a minimum SAT score requirement 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 four sections on the ACT: English, mathematics, reading and science.
- All SAT and ACT scores must be reported directly to the NCAA Eligibility Center by the testing agency. Test scores that appear on transcripts will not be used. When registering for the SAT or ACT, use the Eligibility Center code of 9999 to make sure the score is reported to the Eligibility Center.

### **Grade Point Average:**

- Only core courses are used in the calculation of the grade point average.
- Be sure to look at the high school's list of NCAA-approved core courses on the Eligibility Center's website at [www.eligibilitycenter.org](http://www.eligibilitycenter.org) to make certain that courses being taken have been approved as core courses.

### **Important Information:**

Students enrolling at an NCAA Division I or II institution for the first time need to also complete the amateurism questionnaire through the Eligibility Center website. Students need to request final amateurism certification prior to enrollment.

**For more information regarding the rules, please go to [www.NCAA.org](http://www.NCAA.org). Click on "Rules Compliance" then "Eligibility."**

# ACADEMIC INTEGRITY FOR FACULTY & STUDENTS

University City High School values academic integrity. Academic integrity requires:

**Honesty, which means:**

- A commitment to truthfulness, and
- The refusal to steal or mislead, cheat, or plagiarize.

**Fairness, which means:**

- The willingness to treat others as I would wish to be treated upon careful consideration.

**Respect, which means valuing, in attitude and practice:**

- All human beings,
- Myself, and
- The University City High School community and beyond.

**Responsibility, which means:**

- Recognizing that the quality of a UCHS education and the quality of the UCHS experience depend upon my behavior, and
- Accepting, at all times, the consequences of my actions.

As a member of the UCHS community, the students, faculty, and staff are responsible for upholding this value, supporting academic quality, academic rigor and an appropriate high school atmosphere.

## ACADEMIC INTEGRITY STATEMENT

University City High School values academic integrity (honesty, trust, fairness, respect and responsibility). It recognizes that individuals can achieve their maximum potential and contribute appropriately to the well-being of the larger community only if they recognize the ethical dimensions of decisions and actions. The school and district assumes all members of the academic community will exhibit academic integrity supporting student access, academic quality, academic rigor, innovation, and collegiality.

## DEFINITION OF PLAGIARISM

Plagiarism is defined as representing the words, ideas, or work of another as one's own in any academic exercise. Plagiarism consists of taking the words or substance of another work and either copying or paraphrasing without giving credit to the source. Plagiarism is applicable to written, oral and artistic work. The following examples are only some of the many forms plagiarism may take:

- Word-for-word copying of work written by someone else;
- Failure to give proper credit for ideas, statements of facts or conclusions derived by another;
- Failure to use quotation marks when quoting directly from another, whether a paragraph, sentence or phrase; or
- Close and extended paraphrasing of another's work without acknowledging the source.

## DEFINITION OF CHEATING

Cheating is the act of obtaining or attempting to obtain credit for academic work through the use of dishonest, deceptive, or fraudulent means. The following are only some of the many forms cheating may take:

- Copying another's work on a test, paper, or project;
- Using unauthorized materials in an exam or collaborating on work to be turned in for credit where the instructor disallows such collaboration;
- Taking an exam for another student, purposely allowing another student to copy during a test or providing coursework for another student to turn in as his or her own effort;
- Fabricating, falsifying or misrepresenting data or results from experiments, interviews or surveys;
- Submitting the same work in more than one class for credit without permission from the instructor; or
- Knowingly furnishing false information to a college.

## SCHEDULE CHANGES

University City High School students may only change their schedules during the first two weeks of each semester. Schedule changes are based upon the professional recommendation of teachers and counselors. Student's preference of teacher is not a sufficient rationale for schedule changes. Should a student wish to change an Pre-AP or Advanced Placement (AP) course, they should pick up a purple, Pre-AP/AP Drop form from the 11th grade office.

## INDIVIDUAL CAREER AND ACADEMIC PLAN

[illegible]

**Missouri**  
DEPARTMENT OF ELEMENTARY & SECONDARY  
EDUCATION

# ICAP Explanation

Extracurricular activities are offered or coordinated by the school but **not** connected to academic learning

Co-curricular activities are extension of learning experience in a course or program

American Civics is effective for graduation class of 2021.

Constitution Exams have been in place previously and will continue to be.

CPR/First Aid is required for all students beginning in year 2017-2018

Information:  
[https://dese.mo.gov/sites/default/files/Graduation\\_Handbook.pdf](https://dese.mo.gov/sites/default/files/Graduation_Handbook.pdf)

Postsecondary		College-Ready		College-Ready		College-Ready	
Class Name	Number of Hours	Transferable	Name of Institution	Prerequisite	Student (last)	Score	Score
1. American Civics	1 credit						
2. American Civics	1 credit						
3. American Civics	1 credit						
4. American Civics	1 credit						
5. American Civics	1 credit						
6. American Civics	1 credit						
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\*Updated forms will be release from DESE soon.

# MISSOURI CAREER PATHWAYS

**What is a Career Path?** The state of Missouri has identified six Career Paths as a way to help students become aware of and explore careers in a logical and meaningful way. They include Arts and Communication, Business, Management and Technology, Health Services, Human Services/Transportation, Industrial and Engineering Technology, and Natural Resources and Agriculture.

**What is a Career Cluster?** 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. The Career Clusters include all occupations, even those not usually found in career and technical education.




**What is a Career Pathway?** Occupations within a Career Cluster are further grouped according to shared commonalities such as skill sets or common roles. This grouping is called a Career Pathway. Each cluster contains two to seven Career Pathways. Career Pathways assist educators in the development of a coordinated and non-duplicative sequence of courses that identifies both secondary and postsecondary education elements; includes challenging academic and career and technical education content; and culminates in one or more of the following: technical skill proficiency, a credential, a certificate, or a degree at the secondary or postsecondary level.




Who can help me understand Career Pathways? A guidance counselor as well as any Career and Technical Education teacher can assist students in understanding Career Pathways – just ask!

Starting in the 8th grade students will begin in-depth explorations into the various career pathways offered at University City High School. Exploratory electives will also help students determine their high school pathway. At the end of the 9th grade year all students will have an identified career pathway and the course selection process will align with a student's chosen program of study.

Where can I get more information regarding the Career Pathways at University City High School? Right here in this book! Read all about them in the pages that follow. Or, visit our website for more information.

State Resources: <https://dese.mo.gov/college-career-readiness/career-education>

Career Paths	Description	Career Clusters	Possible Careers
<b>Arts and Communication</b> 	<p><i>Creative Path</i></p> <p>Are you a creative person? Do you like to perform for others or create a work of art? Are you imaginative and innovative?</p>	Arts, A/V Technology and Communications	<p>Communications Occupations Performing Arts Occupations Visual Arts Occupations Computer Engineers Audio Visual Engineers</p>
<b>Business, Management, and Technology</b> 	<p><i>Business Path</i></p> <p>Are you a leader? Do you like to organize meetings or projects? Are you able to talk to people and communicate your idea or a vision? Can you carry out a project to completion?</p>	<p>Information Technology Marketing, Sales and Service Business, Management and Administration Finance</p>	<p>Executive, Administrative and Managerial Occupations Marketing and Sales Occupations Administrative Support Occupations, Including Clerical Computer, Mathematical and Operations Research Occupations Computer Engineers</p>
<b>Health Services</b> 	<p><i>Health Path</i></p> <p>Do you like helping people get well or even stay well? Are you interested in diagnosing a health issue in a patient? Are you interested in the</p>	Health Science	<p>Health Services Occupations Health Assessment and Treating Occupations Health Diagnosing Practitioners Health Technologists and Technicians Biomedical Engineering</p>

NAF Academy-see pg. 21	human body and how it functions?		
<b>Human Services/Transportation</b> 	<i>Helping Path</i> Do you like to problem solve and make things better for others? Are you open to new ideas or opinions? Do you have an outgoing and friendly personality?	Human Services Hospitality and Tourism Government and Public Administration Law, Public Safety, Corrections and Security Education and Training	Legal Careers Religious Occupations Educational Occupations Food and Beverage Preparation and Service Occupations Personal, Building, and Ground Service Occupations Protective Service Occupations Social and Recreational Occupations Civil Engineers
<b>Industrial and Engineering Technology</b>  NAF Academy-see pg. 21	<i>Building and Fixing Path</i> Do you like building things? Are you interested in determining how things work?	Manufacturing Transportation, Distribution and Logistics Science, Technology, Engineering and Mathematics Architecture and Construction	Engineers Architects and Surveyors Plant and Systems Operators Mechanics, Installers and Repairers Metalworking and Plastics-Working Printing Occupations Construction Trades Occupations
<b>Natural Resources and Agriculture</b> 	<i>Nature Path</i> Do you like nature and the outdoors? Do you like to be physically active? Would you like to determine the cause of environmental problems?	Agriculture, Food and Natural Resources	Food Scientist Botanist Veterinarian Agricultural Engineer Forest, Fisheries or Mining Engineer or Technician Hazardous Materials Handler Livestock Buyers/Seller

## MO CAREER CERTIFICATE CRITERIA

In the State of Missouri students who meet certain requirements will earn a Career Certificate. The requirements for the CTE Certificate are as follows:

1. Meet all requirements set forth in state and local board of education policies related to earning a high school diploma.
2. Qualify as a career and technical education (CTE) concentrator. A CTE concentrator is defined as a student who has earned three or more credits in a sequence in any department-approved career education program area as defined on the student's Individual Career and Academic Plan (ICAP).
3. Maintain a minimum grade point average of 3.0 on a 4.0 point scale in the CTE area of concentration as defined on the student's personal plan of study.
4. Pass an approved Technical Skill Assessment (TSA) and/or earn an approved Industry-Recognized Credential or Certificate (IRC) aligned with the student's CTE area of concentration.
5. Complete a minimum of 50 hours of appropriate work-based learning experiences aligned with the student's CTE area of concentration. Work-based learning experiences may include Registered Apprenticeships, Cooperative Career Education programs, internships, clinical settings, job shadowing, entrepreneurial experiences, school-based enterprises, structured business/industry field trips, service learning or other opportunities that provide students with real-time, authentic work experiences.
6. Maintain at least a 95% attendance record overall for grades 9-12.
7. Demonstrate attainment of soft-skills/business skills. The requirement can be met in one of three ways:
  - Active participation in a Career and Technical Student Organization during the junior or senior year; or
  - Score at proficient or advanced level on a district-developed or adopted soft skill/ethics assessment during the junior and/or senior year; or
  - Three or more letters of recommendation, from at least three different business or industry employers or other individuals who have knowledge of the student and can assure that the student has a high level of soft-skill efficacy and is career ready. Letters may not be from a relative or student.
8. Achieve a score at or above the state standard on any department-approved measure(s) of college and career readiness, for example, the ACT®, SAT®, ACT WorkKeys®, or the Armed Services Vocational Aptitude Battery as determined in the most current MSIP performance standards. Schools are to use the .75 weighted measures described in the Assessment Scores Matrix as the standard. This matrix is found in Appendix C of the MSIP 5 Comprehensive Guide to the Missouri School Improvement Program, 2016.

## INDUSTRY-RECOGNIZED CREDENTIALS (IRC)

High-quality credentials are recognized by multiple employers across an industry. To help better identify and prioritize such credentials, ACTE proposes the following uniform definition of "industry-recognized" be implemented across federal legislation when referencing credentials. The term "industry-recognized," used with respect to a credential, means a credential that—

A. is sought or accepted by employers within the industry or sector involved as a recognized, preferred, or required credential for recruitment, screening, hiring, retention or advancement purposes; and,

B. where appropriate, is endorsed by a nationally recognized trade association or organization representing a significant part of the industry or sector.

# UNIVERSITY CITY HIGH SCHOOL

## CAREER PATHWAYS AND PROGRAMS OF STUDY

### What is a program of study?

Graduation requirements and core classes are still required for all students in the State of Missouri. Programs of study are intended to drive a student's elective choices. A student's chosen program of study should help them earn additional certificates, credentials, college credit or even an Associate's Degree depending upon their career pathway and program of choice.

CAREER CLUSTERS	PROGRAMS OF STUDY
<b>ART, DESIGN AND COMMUNICATION</b>	Performing Arts Theater Music-Band, Choir, Orchestra Visual Arts 2-D and 3-D Graphic Design-CTE Certificate Eligible Fashion Design-CTE Certificate Eligible Digital Media (Journalism) Audio Production
<b>BUSINESS</b> -All programs CTE Certificate Eligible	Business Management Hospitality and Restaurant Management Marketing
<b>HUMAN SERVICES</b>	AFJROTC Government and Public Administration Law Public Services Teaching-CTE Certificate eligible
<b>STEM</b> -All programs CTE Certificate Eligible	Biomedical Sciences (NAF) Computer Science Construction Careers Engineering (NAF)



## CORE COURSES PROGRAM OF STUDY

	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES
9 <sup>th</sup>	English I , Academic Literacy Honors English I	Algebra I, Algebra I Lab Honors Algebra I Geometry Honors Geometry Honors Algebra II	Physical Science Pre-AP Biology	World History Honors World History
10 <sup>th</sup>	English II Pre-AP English II	Geometry Honors Geometry Honors Algebra II Pre- AP Calculus	Biology Pre-AP Biology Pre-AP Chemistry	U.S. History, 1 credit required AP/Dual Credit U.S. History
11 <sup>th</sup>	American Literature AP Language AP Literature	Algebra II Honors Algebra II College Prep Algebra Pre-AP Calculus AP Calculus AB	Chemistry Physics Pre-AP Physics Pre-AP Chemistry AP Biology AP Chemistry AP Physics	Government, .5 credit required AP/Dual Credit Government
12 <sup>th</sup>	World Literature AP Literature AP Language Business Writing	College Prep Algebra Probability and Stats. Pre-AP Calculus AP Calculus AB AP Calculus BC	Ecology Physics Pre-AP Physics AP Biology AP Chemistry AP Physics	Psychology AP Psychology Sociology Law and You Social Justice

Other graduation requirements include:

1 credit Fine Arts

1 credit Practical Arts

.5 credit Health

.5 credit Personal Financial Management

1 credit Physical Education

See course descriptions for course prerequisites.

## ART, DESIGN AND COMMUNICATION CAREERS PROGRAMS OF STUDY

	Visual Arts	Theater	Music	Dance	Fashion Design	Audio Production	Digital Media
<b>9th Grade/ Level One</b>	Introduction to Art and Design	Theater One	Orchestra, Band, Choir	Beginning Dance	Introduction to Art and Design	Audio Production	Introduction to Journalism
<b>10th Grade/ Level Two</b>	Drawing or Ceramics and Sculpture I (possible name change to 3D)	Theater Two	Orchestra, Band, Choir	Intermediate Dance	Intro to Sewing and Fashion I	Audio Production	Newspaper or Yearbook
<b>11th Grade/ Level Three</b>	Drawing, Pre-AP Art, Ceramics II and Sculpture II, or Graphic Design	Theater Three	Orchestra, Band, Choir	Intermediate Dance	Fashion II (coming 20-21)	Audio Prod, Entrep I	Newspaper or Yearbook
<b>12th Grade/ Level Four</b>	AP Studio Art, Dual Credit Art, Graphic Design Capstone	Advanced Theater	Orchestra, Band, Choir	Advanced Dance	Fashion Merchandising/Capstone-Fashion Show (coming 20-21)	Audio Prod, Entrep II	Newspaper or Yearbook
<b>Other Cluster Electives</b>	Crafts, Printmaking	Dual Credit Theater, Tech Theater, Speech and Debate	Dual Credit Music Appreciation, Jazz Band, Percussion	Ballet and Jazz	Graphic Design, Marketing, Business and Entrep.	Marketing, Business and Entrep.	Graphic Design, World Languages Speech and Debate
<b>Capstone, Dual Credit and/or Certificate (IRC)</b>	AP Portfolio, Internship, Dual Credit	Capstone Project, Internship, Dual Credit	Capstone Performance, Internship, Dual Credit	Capstone Performance-Kinesis, Internship	TSA Certification, Capstone Design Portfolio	Capstone Project, Internship	Capstone Portfolio, Internship

### Also Available at North Technical High School:

#### Arts and Communication

- Architectural Design and Geospatial Technology
- Fashion Design
- Graphic Design
- Graphic Production and Printing

## BUSINESS CAREERS PROGRAMS OF STUDY

	<b>Business, Finance and Marketing</b>	<b>Hospitality/Restaurant Management</b>	<b>Industrial Technology-Construction Careers</b>
<b>9th Grade/ Level One</b>	Office Productivity Suite, Principles of Business and Finance	General Foods	Woods and Introduction to Construction Technology
<b>10th Grade/ Level Two</b>	Fundamentals of Marketing and/or Entrep. I, and/or Principles of Accounting	Hospitality and Restaurant Management I (formerly Culinary Arts I)	Construction Tech and Home Repair-Woods II
<b>11th Grade/ Level Three</b>	Entrep. I or Entrep. II, Graphic Design, or above classes based upon interest	Hospitality and Restaurant Management II (formerly Culinary Arts II)	North Tech
<b>12th Grade/ Level Four</b>	Entrep. II, Dual Credit Business Management	Entrep. I, Dual Credit Business Management	North Tech
<b>Other Cluster Electives</b>	SBE, World Languages, Speech and Debate	Baking, Nutrition, Global Foods, World Languages	Tech Theater, Dual Credit Business Management
<b>Capstone, Dual Credit and/or Certificate (IRC)</b>	Capstone Project-school store, TSA Certification	TSA Certification, Internship, Capstone-School Coffee Shop	OSHA, Carpenter Pre-apprenticeship

### Also available at North Technical High School:

Business and Information Technology

- Business and Financial Management
- CISCO Networking Academy
- Hospitality, Tourism and Event Planning
- Web and Computer Programming

## STEM CAREERS PROGRAMS OF STUDY

	<b>Health Sciences/Biomedical Science</b>	<b>Engineering</b>	<b>Computer Science</b>
<b>9th Grade/ Level One</b>	Intro to Biomedical	Intro. to Eng. and Design	Computer Science Discoveries
<b>10th Grade/ Level Two</b>	Human Body Systems	Principles of Eng.	AP Computer Science Principles
<b>11th Grade/ Level Three</b>	Medical Interventions	AP Computer Science Principles	AP Computer Science A
<b>12th Grade/ Level Four</b>	Biomedical Innovation (coming 20-21)	EDD (coming 20-21)	Launch Code Internship (coming 20-21)
<b>Other Cluster Electives</b>	AP Bio, AP Chemistry, Latin	Woods I, II	World Languages
<b>Capstone, Dual Credit and/or Certificate (IRC)</b>	NAF Track, Dual Credit, Internship	NAF Track, Dual Credit, Internship	NAF Track, Dual Credit, AP Credit, Internship

### Also available at North Technical High School:

#### Advanced Manufacturing

- Precision Machining
- Welding

#### Construction

- Carpentry
- Construction Trades
- Electrical Trades
- Heating, Ventilation and Air Conditioning
- Plumbing

#### Medical, Plant and Animal Sciences

- Health Science
- Landscaping and Horticulture
- Veterinary Assistant

#### Transportation

- Auto Body
- Automotive Technology
- Diesel Technology

## PUBLIC SERVICE CAREERS PROGRAMS OF STUDY

	<b>Government and Public Administration</b>	<b>Law</b>	<b>AFJROTC</b>	<b>Teaching</b>	<b>Human Services</b>
<b>9th Grade/ Level One</b>	World History	World History	AFJROTC I	Core Classes	World History
<b>10th Grade/ Level Two</b>	US History/AP US History	US History/AP US History	AFJROTC II	Child Development/F amily Living	American History, Child Development
<b>11th Grade/ Level Three</b>	Government/AP Government, Street Law	Government/AP Government, Social Justice	AFJROTC III	Advanced Child Development/ Human Growth and Development	Psychology
<b>12th Grade/ Level Four</b>	AP Psychology, Social Justice	Law and You (Street Law)	AFJROTC IV	Dual Credit Internship and Exploring the Teaching Profession	AP Psychology
<b>Other Cluster Electives</b>	Psychology, AP Psychology, African American Experience, World Languages, Speech and Debate	Psychology, Sociology, World Languages, African American Experience, Speech and Debate	Physical Education Electives, World Languages	Psychology, Sociology, AP Psych, AP World, African American Experience, World Language, Speech and Debate	World Languages, AP World History, Social Justice, African American Experience, Speech and Debate
<b>Capstone, Dual Credit and/or Certificate (IRC)</b>	Dual Credit, AP, Internship	Dual Credit, AP, Law Internship	ASVAB Placement	Dual Credit, AAFCS Ed Fundamental TSA, Classroom Capstone Experience	Dual Credit, Internship

### Also available at North Technical High School:

#### Human Services

- Cosmetology
- Culinary Arts
- Early Childhood Education

#### Public Safety

- Emergency Medical Technician
- Firefighting
- Homeland Security
- Law Enforcement

# COURSE DESCRIPTIONS

Course descriptions are by department. Departments are listed in alphabetical order.

## ENGLISH LANGUAGE ARTS

*4 English Language Arts credits are required for graduation.*

- S1000 ACADEMIC LITERACY.....YEAR COURSE (9-10)  
This course is structured to support students who have not mastered their overall literacy skills. Students will be placed in this course based on their performance on multiple criteria, including state and district assessments. Students will engage in lessons that focus on reading essentials including vocabulary, phonics, fluency, and comprehension.  
Prerequisite: Simultaneous enrollment in Literature and Composition I, II, III  
Homework: 20-30 minutes of reading daily or a literacy activity  
Note: **This course counts as an elective credit, not an English credit.**
- S1100 LITERATURE AND COMPOSITION I.....YEAR COURSE (9)  
This course is designed to help students improve their reading, writing, and speaking skills through assignments based on a variety of literary works. The basic components of the course include a refinement of study skills, vocabulary skills, and test-taking skills, as well as a strong focus on the communication arts skills of listening, writing, reading, and speaking effectively.  
Homework: 20-30 minutes of reading daily.
- S1120 ENGLISH FOR SPEAKERS OF OTHER LANGUAGES (ESOL) .....YEAR COURSE (9-12)  
This course is for those students whose proficiency in any of the English language arts modalities (reading, writing, listening, or speaking) is significantly below that of their peers. Only students classified as Limited English Language Learners are eligible for this course.
- S1150 HONORS LITERATURE AND COMPOSITION I.....YEAR COURSE (9)  
This is a course designed for students who want to be challenged and whose reading and writing skills are at or above grade-level. Students will read and study a variety of texts with a focus on analyzing literary devices, theme, tone, and story structure. Detailed writing assignments which develop skills in analysis, synthesis, argument and narrative writing, as well as other expository techniques, are an integral part of the curriculum. Activities also include a refinement of vocabulary, grammar, listening skills, research skills, and presentation skills.  
Note: Proficient or advanced 8th grade MAP score in English Language Arts is strongly recommended.  
Homework: 30 minutes of reading and/or writing daily.
- S1200 LITERATURE AND COMPOSITION II.....YEAR COURSE (10)  
This is a course designed for students whose reading and writing skills are on grade-level. Students will read and study a variety of texts with a focus on the choices authors make about how they tell their stories. Students will improve their critical reading and analysis skills by making inferences, noticing patterns, and identifying themes. Students will apply this new knowledge to their writing by developing clear claim statements and making purposeful decisions about their writing structure, word choice, and tone.  
Prerequisite: Literature and Composition I  
Homework: 20-30 minutes of reading and/or writing daily.

- S1250 HONORS LITERATURE AND COMPOSITION II.....YEAR COURSE (10)  
 This is a course designed for students who want to be challenged and whose reading and writing skills are at or above grade-level. Students will read and study a variety of texts with a focus on higher order analytical skills, such as discerning symbolism, figurative language, and author's message. Students will discover universal truths in texts and make connections between these truths and the author's purpose, then apply this knowledge to their writing while exploring several patterns of development: character analysis, the researched essay, compare/contrast, and literary analysis.  
Prerequisite: English I  
Note: Proficient or advanced Literature and Composition I EOC score and B or better in English I is strongly recommended.  
Homework: 40 minutes of reading and/or writing daily.
- S1300 AMERICAN LITERATURE AND COMPOSITION.....YEAR COURSE (11)  
 Students will read and study a variety of texts written by American authors, with a focus on diversity, innovation, community, individualism, and other topics relevant to the American experience. Students will emphasize the composition of strong, logically reasoned arguments that depend on well-chosen evidence in order to enter the larger academic and national conversation. They will also develop their own written voice through a close examination of published authors' stylistic choices and persuasive techniques, such as pathos, ethos and logos.  
Prerequisite: Literature and Composition II  
Homework: 40 minutes of reading and/or writing daily.
- S1370 AP LANGUAGE AND COMPOSITION.....YEAR COURSE (11-12)  
 As specified by the College Board, this course is intended to approximate an entry-level college English course. This course is designed for self-motivated students who want to be challenged and whose reading and writing skills are at or above grade-level. Students will read and study a variety of texts in order to examine authors' rhetorical techniques, tools, and structures. This studied analysis of writers' craft will lead to practice in personal narratives, persuasive essays, literary analysis, researched synthesis, and argument writing. Students are strongly encouraged to take the AP exam and, in preparation for it, learn the fundamentals of answering objective and essay questions. Students who take this course are expected to take the AP Exam in May. Scoring a 3 or better on this exam will yield 3-6 credit hours at the vast majority of colleges and universities in the nation. Completion of summer reading and writing assignment is required for this course.  
Prerequisite: Literature and Composition II  
Note: Proficient or advanced on English II EOC score and B or better in English II is strongly recommended.  
Homework: 1 hour of reading and/or writing daily.
- S1400 WORLD LITERATURE AND COMPOSITION.....YEAR COURSE (12)  
 This course uses literature from around the world to build a base of advanced knowledge in reading and writing skills. Students will read a mix of classic and modern World Literature and focus on how authors structure their stories by using literary technical elements and standard English writing conventions. Students will apply this knowledge to their writing to develop arguments, synthesize various presentations of a single text, and identify common threads between multiple texts. There will be an emphasis on college-preparatory writing.  
Prerequisite: American Literature & Composition or AP Language and Composition.  
Homework: 40 minutes of reading and/or writing daily.

- S1460 AP LITERATURE AND COMPOSITION.....YEAR COURSE (11/12)  
 As specified by the College Board, this course is intended to approximate an entry-level college English course. This course is designed for self-motivated, college-bound students who want to be challenged, whose reading and writing skills are at or above grade level, and who plan to take the AP exam at the end of the year. In preparing students to take the exam, the teacher will select reading materials from a variety of sources and genres that reflect the rigor of an introductory college-level communication arts course. Daily instruction, discussion, and written work will focus on the identification and analysis of the rhetorical devices and strategies employed by writers. Students will be assessed on how well they use the language of rhetoric in analyses of texts, as well as their ability to effectively convey that knowledge in a college-level composition (a 5 or higher on the College Board's 9-point scoring guide). Scoring a 3 or better (out of 5) on the AP exam will yield 3-6 credit hours at the vast majority of colleges and universities in the nation. Completion of a summer reading and writing assignment is required for this course. This includes a commitment to a semester-long undertaking of a self-selected Author's Study project, which the student is expected to present in January.  
Prerequisite: A grade of "C" or higher in either Pre-AP Literature & Composition 2 or AP Language and Composition + a score of proficient or advanced on the English EOC (if scores are available) + teacher recommendation  
Homework: An average of 1.5 hours of reading and/or writing daily
- S1470 COLLEGE COMPOSITION I.....SEMESTER COURSE (11/12)  
**Dual Credit ENG 101. College Composition I (STLCC MOTR ENGL 100) 3 Credit Hours.** This course primarily focuses on the development of writing techniques. Students will develop effective writing styles, writing processes, revision practices, and analytical skills. Prerequisites: [ENG 030](#) or [ENG 070](#) with a grade of "C" or better or recommendation of department and Reading Proficiency or concurrent enrollment in [RDG 030](#)
- S1475 COLLEGE COMPOSITION II.....SEMESTER COURSE (11/12)  
**Dual Credit ENG 102. College Composition II (STLCC MOTR ENGL 200). 3 Credit Hours.** This course builds on knowledge and skills learned in [ENG 101](#) and primarily focuses on argumentative and persuasive writing techniques. Students will develop effective writing processes, writing styles, research abilities, analytical skills, and argumentative tools. Prerequisites: ENG 100 or [ENG 101](#) with a grade of "C" or better or department approval and Reading Proficiency.
- S1500 INTRODUCTION TO JOURNALISM.....YEAR COURSE (9-12)  
 This course serves as a required prerequisite for all school publications courses unless the student is a senior and obtains approval from the school publications advisor. This course is reading and writing intensive. Students are introduced to the fundamentals of journalism, including writing for publication, layout and design, photography and advertising. Ethics, history, and principles of journalism will be researched and studied, along with the newest forms of the genre. Students will be trained in publishing software, such as Adobe InDesign and Adobe Photoshop. Students' work will be considered for publication in the U-Times student newspaper and website and Dial yearbook. If students excel during the first semester, they may be asked to join the Newspaper (U-Times) or Yearbook (Dial) staff for the second semester.  
Note: This course serves as a required prerequisite for all school publications courses unless the student obtains approval from the school publications adviser.
- S1510 SCHOOL PUBLICATION: NEWSPAPER (U-TIMES) .....YEAR COURSE (10-12)  
 In this course, students create the school newspaper and manage its website. As part of the newspaper staff, students are expected to have the written and oral communication skills needed to publish a quality newspaper and website and may have to spend considerable amounts of time outside of class to complete assignments.  
Prerequisite: Course application; English I; Introduction to Journalism with a grade of B or above  
Note: Students may be exempt from this if granted approval by school publications advisor.  
**This course can be used in place of a Practical Arts credit or it can be repeated one or more times for English elective credit with advisor's approval.** Editors-in-Chief receive weighted grades.



- S1520 SCHOOL PUBLICATION: YEARBOOK (DIAL) .....YEAR COURSE (10-12)  
 Students will receive instruction in the techniques of producing a quality yearbook that will become an accurate historical and artistic record of the school year. Because the yearbook is a mini business with students assuming the financial responsibility for the publication, they will also gain experience in sales, public relations, and advertising. Students are required to spend considerable time in the summer as well as during the school year promoting yearbook sales, advertising, and fundraising events. This course may be repeated one or more times for English elective credit or Practical Arts credit with the advisor's approval. Selections for staff editorial positions will be made each spring.  
Prerequisite: Course application; English I; Introduction to Journalism with a grade of "B" or above  
Note: Students may be exempt from this if granted approval by school publications advisor. **This course counts as an English or Practical Arts Elective, not English credit.** Editors-in-Chief receive weighted grades.
- S1590 SPEECH & DEBATE ..... SEMESTER COURSE (9-12)  
 Students will explore the role of debate through a variety of debate formats and will work to understand the importance of constructing valid arguments, finding appropriate supporting evidence, and evaluating and refuting opposing arguments. Participation in this course will better prepare students for the rigor of college level oral communication courses as this course is designed to help students develop effective speaking and listening skills. Students will be able to recognize the importance of effective speech communication in everyday life and to identify aspects of effective delivery. Students will utilize public speaking techniques and argumentation skills to debate current issues and to perform a variety of specialized public speeches. Through speech writing and delivering a variety of speeches, students will build confidence and improve presentation skills. Students will learn to accept and give constructive feedback. Students interested in pursuing a degree in Law, Politics or simply interested in improving their own personal discourse are highly encouraged to enroll in this course.
- S1710 BUSINESS WRITING .....SEMESTER COURSE (12)  
 This course focuses on senior-level writing and grammar skills, while highlighting communications skills to enhance job performance in the real world. This includes everyday skills, such as speaking and listening, analyzing reading selections, writing and revising, presentations, research, and collaborative projects. Units of study will include writing for business audiences, work correspondence, persuasive messages, reporting workplace data, developing speaking and listening skills, and communicating for employment.

## FINE ARTS

### *(Visual Arts)*

- S6000 INTRODUCTION TO ART AND DESIGN.....YEAR COURSE (9-12)**  
 This is the basic exploratory course in art and design. Students are introduced to the elements and principles of design and use them to find unique and individual solutions to artistic problems. Emphasis will be placed on drawing, painting, rendering techniques, modeling, construction, art history, art vocabulary, and basic graphic design using the Internet as a research tool. This course is a foundations course for students pursuing a career pathway in art, graphic design, interior design, fashion design, architecture or other design-related field. (formerly Studio Art)
- S6130 DRAWING.....YEAR COURSE(10-12)**  
 This is an advanced art course. Students with a special interest in drawing and two-dimensional art will investigate a wide variety of techniques and media used by artists. Drawing is a skill that can be learned and highly developed with study and practice. Students will learn about historically important artists, and will use skills, techniques and styles to express their personal ideals and beliefs. Emphasis will be placed on developing an art portfolio appropriate for use in applying to colleges or for obtaining a job in fine arts, graphic arts, interior design, fashion design or architectural school.  
Prerequisite: A or B in Introduction to Art and Design or permission from Instructor.
- S6140 PRE-AP STUDIO ART: DRAWING.....YEAR COURSE (11-12)**  
 Pre- Advanced Placement- Studio Art is a preparatory class for juniors who plan to enroll in AP Studio Art in their senior year. Students will work to develop mastery of content and techniques within Drawing, 2-D and 3-D design. Students will begin to build an extensive portfolio of work which will be part of the portfolio submitted to the College Board the following year in AP Studio Art. Students in Pre-AP Studio Art will build portfolios to submit to the College Board for college credit in their senior year in AP Studio Art..  
Prerequisite: Earned A or B in at least two Visual Arts courses or permission of Instructor.
- S6150 AP STUDIO ART: DRAWING.....YEAR COURSE (12)**  
 This Advanced Placement Studio Art class is offered to students who have a special interest in Drawing, 2-D and 3-D art/design. Students will work to develop mastery of content and techniques within Drawing, 2-D and 3-D design. Students will create an extensive portfolio of work which reflects quality, breadth, and concentration. Submission of portfolios to the College Board provides students the possibility to earn college credit. Students may take multiple semesters of AP Studio Art.  
Prerequisite: Earned A or B in Pre-AP Studio Art: Drawing or permission of Instructor.
- S6210 CRAFTS.....SEMESTER COURSE (9-12)**  
 Students will learn about traditional and contemporary crafts and produce objects that are both functional and decorative. Students will explore the tools and techniques used by many cultures, especially Native American, Indian, and African craftsmen/artists. Some of the crafts that may be explored are weaving, basket making, batik, macramé, papier-maché, tin work, and handmade paper.
- S6220 PRINTMAKING.....SEMESTER COURSE (9-12)**  
 Students are introduced to traditional and contemporary printmaking techniques. Students will create a variety of prints such as linocuts, collagraphs, etchings, and silkscreen prints. Emphasis will be placed on using basic design principles as well as technical skills such as creating printing plates, inking, and using a printing press or hand printing.
- S6310 CERAMICS I (FIRST SEMESTER ONLY) .....SEMESTER COURSE (9-12)**  
 This first-semester course will include various hand building techniques and varied glazing and surface decoration techniques. Students will learn to approach ceramic artwork as both functional and decorative sculptural objects. Students will also explore historical influences, as well as contemporary ceramicists.
- S6320 CERAMICS II (FIRST SEMESTER ONLY) .....SEMESTER COURSE (10-12)**  
 This first-semester course is an advanced continuation of Ceramics I. Students will improve hand building techniques and be introduced to throwing techniques through projects that are more technically challenging. Knowledge of kiln functions, decorative techniques and advanced glazing techniques will be broadened and an emphasis will be placed on aesthetic judgment.  
Prerequisite: A or B in Ceramics I or permission from Instructor.

- S6410 SCULPTURE I (SECOND SEMESTER ONLY) .....SEMESTER COURSE (9-12)  
 This second-semester course is devoted to experimentation with a variety of methods, media, techniques, themes, and styles of three-dimensional sculpture from various sources. A cultural overview of art is used as a reference for student art production and study. Students demonstrate appropriate use of equipment in accordance with established safety guidelines.
- S6420 SCULPTURE II (SECOND SEMESTER ONLY) .....SEMESTER COURSE (10-12)  
 This second-semester course is an advanced continuation of Sculpture I. The course concentrates on advanced techniques in the production of sculptural artworks. Students study the historical and cultural background of traditional and modern sculptural techniques. Various sculptural media are used to create technically challenging 3-D projects.  
Prerequisite: A or B in Sculpture I or permission from Instructor.
- S6510 GRAPHIC ARTS.....YEAR COURSE (11-12)  
 This is an advanced art course. Students will gain an understanding of basic processes and procedures that make up the graphic arts concept. Students will learn various lettering techniques, logo design, poster design, package design, brochure/book production, and storyboard production. Students will learn basic board techniques and various computer software as well as scanning digital photography and production tools (Adobe Illustrator CS, Adobe Photoshop CS, Google platform),. Design and typography principles will apply to all projects. In addition to the graphic design curriculum, WashUCity is an established partnership with Washington University's visual communications department. In this project college students develop and teach design curriculum to high school students and assist students in solving class-related design problems, in addition to advising and mentoring students.  
Prerequisite: Successful completion of Drawing, Newspaper, and Yearbook or teacher permission.

## FINE ARTS COURSES

### *(Performing Arts)*

- S6630 JAZZ BAND.....YEAR COURSE (9-12)  
It is required that all students be auditioned. Instruments being utilized in this class include trumpets, trombones, saxophones, keyboards, lead and bass guitar, tuba, and percussion. The class will emphasize performance in the jazz and commercial music styles and will include instruction in jazz improvisation. The students will perform at least one concert each semester.  
Prerequisite: Audition and concurrently enrolled in Band.
- S6640 BAND.....YEAR COURSE (9-12)  
Students will further their skills in interpreting and expressing music through performance of band literature carefully chosen to include classical transcriptions and contemporary band pieces within a comprehensive range of playing styles and periods. Participation at all concerts and public performances is required. Students will also perform as a marching band and pep band at selected athletic events, parades and other activities throughout the metro area. Students who have not been enrolled in band must be auditioned by the director for proper placement.  
Note: The number of percussionists will be limited in the band. All students who wish to perform on percussion instruments will be asked to audition privately with the director. All percussionists will attend a special percussion clinic during the summer.  
Prerequisite: Audition.
- S6650 PERCUSSION.....YEAR COURSE (9-12)  
Student will further their skills in interpreting and expressing music through performances of band and percussion literature. This literature is carefully chosen to include a wide variety of percussion music with a wide range of playing styles. Students are expected to participate as part of the high school marching band and pep band at events both at UCHS and throughout the St. Louis area. Participation at all performances is required.  
Note: The number of percussionists will be limited in the band. All students who wish to perform on percussion instruments will be asked to audition privately with the director. All percussionists will attend a special percussion clinic during the summer.  
Prerequisite: Attendance at summer percussion clinic, audition
- S6680 ORCHESTRA.....YEAR COURSE (9-12)  
Orchestra students will further their skills in string technique, musical knowledge, interpretation and expression of music through performance of string orchestra literature from a wide range of genres and periods. Participation at all concerts and events is required. In addition to being a performance-driven class, students will also gain knowledge about what it means to be well-rounded musicians by doing various in-class assignments, attending concerts outside of school, knowing and understanding basic music theory concepts, and writing about musical experiences. It is expected that students entering Orchestra at UCHS are able to read music at a proficient level, know their scales up to two sharps and two flats, and have a solid foundation of string technique and posture.  
Prerequisite: Participation in middle school orchestra or audition.
- S6730 CONCERT CHOIR.....YEAR COURSE (9-12)  
Admission to this course is by audition only. This is a class for students who want to study advanced music theory, advanced sight singing/aural training, and choral ensemble production. The repertoire will include standard and advanced high school and college literature. Students participating in this class will participate in a variety of appearances throughout the community and state.  
Prerequisite: Audition.
- S6740 WOMEN'S CHOIR.....YEAR COURSE (9-12)  
This class is offered to female students interested in singing in a choral performance group. This class emphasizes the basics of singing and performance.  
Note: This class can be taken more than one time with permission of the instructor only.  
The group is required to perform a minimum of two concerts.

- S6750 MEN'S CHOIR.....YEAR COURSE (9-12)  
This class is offered to male students interested in singing in a choral performance group. This class emphasizes the basics of singing and performance.  
Note: This class can be taken more than one time with permission of the instructor only.  
The group is required to perform a minimum of two concerts.
- S6760 MUSIC APPRECIATION.....SEMESTER COURSE (11-12)  
**MUS 114. Music Appreciation (STLCC MOTR MUSC 100). 3 Credit Hours.**  
This class is a survey of various aspects of music including the philosophy, science, theory, anthropology, sociology, history, and physical act of producing music. A wide variety of musical styles and associative composers will be used to explore these aspects of music.  
Prerequisite: Reading Proficiency.
- S6780 AUDIO PRODUCTION.....YEAR COURSE (9-12)  
Audio Production combines the technical knowledge of music with the practical knowledge of Digital Audio Workspaces to create beats, electronic music, and more.  
Throughout the course, students will start by creating a foundation of music theory and how to use chords and scales in their music. This is followed by an in-depth look at how to make different styles of music electronically, all the while building up critical listening skills to best judge what is effective in music. Projects are individualized to students to ensure goals are met.
- S6810 THEATRE ARTS I.....SEMESTER COURSE (9-12)  
A hands-on course designed to introduce students to various elements of theater and to encourage students in further theater study. Students will examine the role that acting, directing, writing, sound, lights and set play in the creation of a production. Through warm-ups, monologues scene work and improvisation, students will learn how to become more comfortable on stage. Basic techniques of movement, voice projection, character development and performance will be taught. Students will perform in a one-act play as part of the final class project for the semester.
- S6820 THEATRE ARTS II.....SEMESTER COURSE (9-12)  
This is a continuation of of the work covered in Theatre Arts I in an advanced context. Students will engage in more intensive preparation of their craft. The creative, physical, emotional and mental aspects of performance are studied through scene work and audition techniques. This course also includes an introduction to directing and writing for theater. Written critiques and participation in a one-act play will be part of the final class project for the semester.  
Prerequisite: Previous participation in a UCHS musical or fall play, pass Theatre Arts I, or by permission of instructor.
- S6830 THEATRE ARTS III.....SEMESTER COURSE (9-12)  
This is a continuation of of the work covered in Theatre Arts II in an advanced context. Students will engage in more intensive preparation of their craft. The creative, physical, emotional and mental aspects of performance are studied through scene work and audition techniques. This course also includes an introduction to directing and writing for theater. Written critiques and participation in a one-act play will be part of the final class project for the semester.  
Prerequisite: Previous participation in a UCHS musical or fall play, pass Theatre Arts II, or by permission of instructor.
- S6850 TECHNICAL THEATRE .....SEMESTER COURSE (9-12)  
This is a course for both the curious novice and the advanced design student to explore the technical elements of theater production, including but not limited to, lighting, sound, set, costume, makeup and stage management. The technical theater student will also have opportunities to explore scenic painting and set construction, depending on available resources and project focus each semester. Through special projects and work on the Fall play and the Spring musical, students will gain the skills needed to become a skilled member of the UCHS theater production team.
- S6865 DUAL CREDIT THEATER.....SEMESTER COURSE (11-12)  
**THT 101. Introduction to Theatre (STLCC MOTR THEA 100A). 3 Credit Hours.**  
Introduction to Theatre is designed to enhance the enjoyment and appreciation of theatre. Students study theatre as a collaborative art form by examining the roles and functions of playwrights, actors, directors, and designers in both traditional and contemporary contexts.  
Prerequisite: Reading Proficiency.

- S6910 BEGINNING DANCE.....YEAR COURSE (9-12)  
 This course will introduce students to various styles of concert dance including ballet, jazz, and tap. Students will become familiar with basic skills and warm up exercises for each style. They will begin to understand the compositional elements of dance, and will have the opportunity to perform in two formal dance concerts each year.  
Prerequisite: Audition
- S6920 INTERMEDIATE DANCE.....YEAR COURSE (9-12)  
 This course is for dancers who are becoming more serious about dance and have an interest in performing. Students will continue to study the technique of various styles of concert dance, and they will work periodically in groups on the compositional elements of dance. They are required to participate in two formal dance concerts and all preceding rehearsals. Students must have a basic understanding of dance vocabulary and be able to 'spot' to participate in this course.  
Prerequisite: Permission of instructor required. Students must have recent dance experience.
- S6930 ADVANCED DANCE.....YEAR COURSE (9-12)  
 This course is ideal for students who have studied extensively at private studios. Students will compose in groups and eventually use their work to create dances. They will continue to participate in ballet, jazz, and modern dance technique classes. They will experiment with alternative performance styles, and they will perform all types of choreography in the two required formal dance concerts. There will be several other mandatory rehearsals and performances.  
Prerequisite: Permission of instructor required. Students must have several years of recent dance experience.
- S6940 BALLET AND MODERN DANCE.....YEAR COURSE (9-12)  
 This course will alternate between ballet and modern dance technique classes with minimal time spent on performances. Students will get much stronger, more flexible, and will be much more expressive after taking this course. Dance concert is required, but may be limited to one or two numbers. Students are encouraged to take this class along with an additional dance course.  
Prerequisite: Previous dance experience and permission of instructor.

# MATHEMATICS COURSES

3 Mathematics credits are required for graduation.

Seniors must enroll in a mathematics course during senior year if not meeting the college readiness benchmark of 22 on the ACT.

- S4105 ALGEBRA 1 LAB (ELECTIVE CREDIT).....SEMESTER/YEAR COURSE (9)  
This elective course is designed to reinforce concepts taught within the Algebra I class. Students will practice and review topics corresponding to daily Algebra I lessons. A variety of methods will be used to help reinforce the concepts including: pencil/paper, whiteboards, projects, software, and games. Practice quizzes and exams will be given to help review for the assessments of Algebra I skills and to identify areas where further help may be needed. Students are given the opportunity after every major exam and quiz in Algebra I, to bring the graded exams or quiz to Algebra Math Lab. Students will review and rework all incorrect problems. Exam corrections not only help students learn from their mistakes, but also make excellent study guides for final exams.
- S4110 ALGEBRA 1.1.....SEMESTER COURSE (9)  
Algebra 1.1 is the first semester course of a year-long Algebra 1 sequence. Basic concepts and skills of elementary algebra will be covered. Students will analyze and explain the process of solving equations, and develop fluency writing, interpreting, and translating between various forms of linear equations and inequalities. Students will learn function notation and develop the concepts of domain and range. Additional topics will include translating expressions and equations, operations with real numbers, properties of real numbers, measures of central tendency, ratios and proportions.
- S4120 ALGEBRA 1.2.....SEMESTER COURSE (9)  
Algebra 1.2 is the second semester course of a year-long Algebra 1 sequence. Basic concepts and skills of elementary algebra will be covered. Students will explore systems of equations and inequalities, and find and interpret their solutions. Students will build on and extend their understanding of integer exponent to consider exponential functions. Students will build on their knowledge to extend the laws of exponents to rational numbers. Additional topics will include operations with polynomials, algebraic fractions, rational and irrational numbers, and various types of applications and problems with real numbers.  
Prerequisite: Algebra 1.1.
- S4150 HONORS ALGEBRA 1.....YEAR COURSE (9)  
This course is intended for students who enter with above-average mathematical and problem-solving skills. The students will study the same algebraic concepts and topics that are covered in Algebra 1.1. and 1.2; however, they will be required to do more challenging problems and more complex applications.  
Note: Proficient or advanced on the 8th grade Math MAP is strongly recommended.
- S4210 GEOMETRY 1.....SEMESTER COURSE (9-12)  
Geometry 1 is the first semester course of a year-long geometry sequence. Students will study geometric concepts, mathematical logic, and formal deductive proofs. Students will build on their work with the Pythagorean Theorem in 8th grade to find distances, use a coordinate system to verify geometric relationships, including properties of triangles, quadrilaterals, and parallel and perpendicular lines. Students will establish triangle congruence criteria and will use congruence as a foundation for the development of formal proof. Additional topics will include angle relationships, 2-3 dimensional figures as well as embedded algebra concepts.  
Prerequisite: Algebra 1.2.
- S4220 GEOMETRY 2.....SEMESTER COURSE (9-12)  
Geometry 2 is the second semester course of a year-long geometry sequence. Students experience with two-dimensional and three-dimensional objects is extended to include informal explanations of circumference, area and volume formulas. Students will continue to work with the Pythagorean Theorem, including properties of special right triangles. Students will develop the Laws of Sines and Cosines in order to find missing measures of general triangles. Students will prove basic theorems about circles and will study the relationship among chords, secants and tangents as an application of similarity. Students will study geometric concepts, mathematical logic, and formal deductive proofs. Students will use the languages of set theory to expand their ability to compute and interpret the probabilities of compound events.  
Prerequisite: Geometry 1.

- S4250 HONORS GEOMETRY.....YEAR COURSE (9-10)  
 This course is intended for students who enter with above-average mathematical and problem-solving skills. The students will study the same geometric concepts and topics that are covered in Geometry 1 and Geometry 2. However, they will be required to do more challenging problems and complex applications. An emphasis will be placed on the student's ability to prove basic theorems using a variety of formats.  
Prerequisite: Algebra 1.  
Note: B or better in Algebra 1.2 or Pre-AP Algebra 1 and proficient or advanced on Algebra 1 EOC is strongly recommended.
- S4310 ALGEBRA 2.1.....SEMESTER COURSE (10-12)  
 Students will improve algebra skills and progress to more advanced algebra topics. Students will synthesize and generalize what they have learned about a variety of function families. Students will explore systems of equations and inequalities, and find and interpret their solutions. Students will identify zeros of polynomials and make connections between zeros of polynomials and solution of polynomial equations. Additional topics will include operations with real numbers, rational expressions, factorization, solutions of linear and quadratic equations, graphs, rational, irrational, and complex numbers.  
Prerequisite: Geometry 2
- S4320 ALGEBRA 2.2.....SEMESTER COURSE (10-12)  
 Students will improve algebra skills and progress to more advanced algebra topics. Students will extend their work with exponential functions to include solving exponential functions to include solving exponential equations with logarithms. Students will identify appropriate types of functions to model situations. Students will see how the visual displays and summary statistics they learned in earlier grades relate to different types of data and to probability distributions. Topics will include operations with polynomials, rational expressions, factorization, solutions of quadratic equations, inequalities, functions, graphs, systems of equations, rational, irrational, and complex numbers.  
Prerequisite: Algebra 2.1
- S4350 HONORS ALGEBRA 2.....YEAR COURSE (9-12)  
 This course is intended for students who have above-average mathematical and problem-solving skills and above average grades in Algebra 1 and Geometry. Students will study the concept of a function as it relates to algebraic, exponential, logarithmic, and trigonometric expressions. First-semester topics will include solutions of linear and quadratic equations, inequalities, and systems, operations with polynomials, rational and irrational expressions, and algebraic functions. Second-semester topics will include exponential, logarithmic and trigonometric functions, and trigonometric identities and equations.  
Prerequisite: Geometry 2.  
Note: B or better in Algebra 1.2 and Geometry 2 is strongly recommended.
- S4410 INTERMEDIATE ALGEBRA (DUAL CREDIT/MATH 140).....YEAR COURSE (10-12)  
 This course is designed to provide the transition from high school algebra courses to college algebra. Its design is that of a college-level intermediate algebra course, complete with a college-level textbook. This course will help students avoid taking remedial/developmental math courses in college, which are costly and time-consuming and may not count toward degree requirements. This course can also provide a good foundation for students who want to take Precalculus the following year.  
Prerequisite: Algebra 2.2.
- S4450 Pre-AP CALCULUS.....YEAR COURSE (10-12)  
 This course will offer students an opportunity to continue the study of advanced algebra topics that will prepare them for the study of calculus. Topics will include polynomial, rational, radical, exponential, logarithmic, and trigonometric functions, and an introduction to conics and vectors.  
Prerequisite: Algebra 2.  
Note: B or better in Algebra 2 is strongly recommended.



- S4460/4470 PROBABILITY AND STATISTICS.....YEAR COURSE (10-12)  
 This course is designed as a general-purpose introduction to the field of statistics and probability. Students will need a working knowledge of algebra in order to successfully solve the problems in this course. The primary objective of this course is to enhance statistical literacy. Topics include organizing and displaying data using various forms of frequency distributions and analyzing data using measures of central tendency, measures of variation, measures of relative standing, probability, probability distributions, the central limit theorem, confidence intervals and hypothesis testing. Students will solve problems involving permutations and combinations.  
Prerequisite: Algebra 2.2.
- S4510 AP CALCULUS AB (DUAL CREDIT/MATH 210).....YEAR COURSE (11-12)  
 Students will study and apply principles of calculus. Topics will include limits, derivatives, and integrals of algebraic and transcendental functions, approximations, applications, and modeling. This course is recommended for college-bound students who plan to major in mathematics or a math-related field. Students taking this course are strongly encouraged to take the AP exam offered in the spring. Students who take this course are expected to take the AP Exam in May. Scoring a 3 or better on this exam will yield 3-6 credit hours at the vast majority of colleges and universities in the nation.  
Prerequisite: Precalculus
- S4520 AP CALCULUS BC.....YEAR COURSE (11-12)  
 Students will study the same topics and concepts covered in AP Calculus AB with more detail given to some areas. Additional topics covered include hyperbolic functions, arc lengths and surface of revolutions, indeterminate forms, improper integrals, trigonometric substitution, partial fractions, series, polar coordinates, and vectors. Students taking this course are strongly encouraged to take the AP exam offered in the spring. Students who take this course are expected to take the AP Exam in May. Scoring a 3 or better on this exam will yield 3-6 credit hours at the vast majority of colleges and universities in the nation.  
Prerequisite: AP Calculus AB  
Note: **Students also have the option of taking this course as a semester-long course at St. Louis Community College through a Dual Enrollment agreement.**

## PHYSICAL EDUCATION COURSES

- S8010 HEALTH.....SEMESTER COURSE (10-12)  
This class explores techniques and choices for maximum wellness. Healthy, responsible choices require awareness about the whole human being, not just physical concerns, but mental, emotional and social components as well. Topics include personal health, physical fitness, first aid, and nutrition. Some pressing concerns confront adolescents today, such as substance abuse, sexual choices and consequences, suicide, and prevention of stress-related illness. Class time and attention will be focused on these major concerns.  
Note: **This course is required for graduation in the State of Missouri.**
- S8020 COMPREHENSIVE PHYSICAL EDUCATION.....YEAR COURSE (9-12)  
This course provides students with an introduction to a variety of activities, personal fitness, swimming, individual and team sports, rules, and game strategies. Lead-up skills and drills will assist students in successfully performing motor skills. Students will also participate in physical fitness testing.  
Note: **This course is required for graduation in the State of Missouri.**
- S8040 COMPETITIVE SPORTS.....SEMESTER COURSE (10-12)  
This class incorporates a variety of drills and practical strategies with an in-depth knowledge of game rules to engage the serious student to optimal performance in the game of football, volleyball, and basketball during first semester. Second semester will emphasize basketball, soccer and softball.  
Prerequisite: Pass Comprehensive Physical Education.
- S8060 LIFETIME SPORTS.....SEMESTER COURSE (10-12)  
The activities in this class will concentrate on sports and personal fitness that will be used throughout the student's adult life. Students will demonstrate skills and game strategies by participating in activities such as bowling, badminton, ping-pong, and volleyball. Students may enroll in both first and second semesters as different sports will be covered.  
Prerequisite: Pass Comprehensive Physical Education.
- S8080 PERSONAL FITNESS TRAINING.....SEMESTER COURSE (10-12)  
Students will engage in activities such as power walking, body sculpting, Pilates, aerobics, step aerobics, yoga, introduction to beginning weight training, and other light cardiovascular activities that can be incorporated into a healthy lifestyle throughout adult life. Independent study is available for students who are unable to participate in physical activity due to a chronic or short-term disability. A doctor's statement is required for independent study. Specific sports (basketball, football etc.) will not be included in this course.  
Prerequisite: Pass Comprehensive Physical Education.
- S8130 WEIGHT TRAINING.....SEMESTER COURSE (10-12)  
This class is for individuals serious about conditioning. Classes will include mastering standard weight room safety and spotting techniques, circuit training, cross training, and other fitness-related activities.  
Prerequisite: Pass Comprehensive Physical Education.
- S8140 ADVANCED WEIGHT TRAINING.....SEMESTER COURSE (10-12)  
This class introduces more advanced weight lifting techniques and strategies. Circuit training, cross training, and other fitness-related activities are included.  
Prerequisite: Pass Beginning Weight Training.
- S8210 AQUATICS: LEARN TO SWIM.....SEMESTER COURSE (9-12)  
This course is a beginner course and is intended for students with little or no swimming experience. Students will demonstrate water safety and be introduced to floating, treading water, and beginner swim strokes such as freestyle and backstroke. Students will work at their own pace to reach personal goals. Students in this class will be in the shallow end of the pool (three or four feet of water).

S8220 LAP SWIM AND STROKE IMPROVEMENT .....SEMESTER COURSE (10-12)  
Swimming experience is required. Stroke improvement is for the student who is proficient in swimming and would like to improve stroke technique or learn more advanced strokes such as the breaststroke and butterfly. Independent lap swim is for students who want to swim laps to maintain or enhance their level of physical fitness. One lap is 25 yards.  
Prerequisite: Pass Aquatics: Learn to Swim or teacher recommendation.

# PRACTICAL ARTS COURSES

## *(Career and Technical Education)*

- S3170 PLTW: PRINCIPLES OF BIOMEDICAL SCIENCE.....YEAR COURSE (9-12)  
 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.  
Note: Students currently enrolled in Biology are highly recommended.
- S3270 PLTW: HUMAN BODY SYSTEMS.....YEAR COURSE (10-12)  
 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.  
Prerequisite: Principles of Biomedical Science
- S3370 PLTW: MEDICAL INTERVENTIONS.....YEAR COURSE 11-12)  
 In the Medical Interventions course, students will investigate the variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the lives of a fictitious family. A "How-To" manual for maintaining overall health and homeostasis in the body, the course will explore how to prevent and fight infection, how to screen and evaluate the code in our DNA, how to prevent, diagnose and treat cancer, and how to prevail when the organs of the body begin to fail. Through these scenarios, students will be exposed to the wide range of interventions related to Immunology, Surgery, Genetics, Pharmacology, Medical Devices, and Diagnostics. Each family case scenario will introduce multiple types of interventions and will reinforce concepts learned in the previous two courses, as well as present new content. Interventions may range from simple diagnostic tests to treatment of complex diseases and disorders. These interventions will be showcased across the generations of the family and will provide a look at the past, present and future of biomedical science. Lifestyle choices and preventive measures are emphasized throughout the course as well as the important role scientific thinking and engineering design play in the development of interventions of the future.  
Prerequisite: Human Body Systems
- S7100 PERSONAL FINANCE.....SEMESTER COURSE (11-12)  
 Understanding and managing personal finances is key to one's future financial success. This one-semester course is based on the Missouri Personal Finance Competencies and presents essential knowledge and skills to make informed decisions about real-world financial issues. Students will learn how choices influence occupational options and future earning potential. Students will also learn to apply decision-making skills to evaluate career choices and set personal goals. 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.  
Note: This course is required for graduation in the State of Missouri.
- S7120 OFFICE PRODUCTIVITY SUITE.....SEMESTER COURSE (9-12)  
 This entry-level course is designed to help students master beginning and advanced skills in the areas of word processing, database management, spreadsheet applications, desktop publishing, multimedia, Internet usage, and integrated software applications.
- S7130 PRINCIPLES OF BUSINESS AND FINANCE .....SEMESTER COURSE (9-10)  
 This is the first course students take in the business career pathway and introduces students to the business and financial world. Students develop financial literacy as they learn about the function of finance in society. They study income and wealth; examine financial institutions; learn how businesses raise capital; and study key investment-related terms and concepts. They also research how innovations have changed the business and financial services field. Finally, students explore careers that exist in business and finance today.

- S7140 PRINCIPLES OF ACCOUNTING.....SEMESTER COURSE (9-10)  
Principles of Accounting provides students with an understanding of the accounting process and how it facilitates decision making by providing data and information to internal and external stakeholders. Students learn that accounting is an integral part of all business activities. They learn how to apply technology to accounting by creating formulas and inputting data into spreadsheets. Students also examine career opportunities and the professional certifications and designations earned by individuals in the accounting profession.
- S7160 BUSINESS MANAGEMENT.....YEAR COURSE (11-12)  
This course is designed to help students develop an understanding of skills and resources needed to manage a business. Instruction includes a general overview of American business, forms of business ownership, personnel management, labor-management relations, public and human relations, taxation, and government regulations. The use of computers and software as tools in making business decisions in areas such as accounting, sales analysis, and inventory control is also introduced.
- S7170 ENTREPRENEURSHIP I.....YEAR COURSE (10-12)  
Changes! is an instructional program that provides a background for the development and operation of a business starting with the role of the entrepreneur in the economy to development of a business plan and the application of specific marketing skills and concepts within the business environment.
- S7175 ENTREPRENEURSHIP II.....YEAR COURSE (11-12)  
This course is a continuation of the Changes! program. Students with an established business plan can apply for this capstone course.
- S7210 SUPERVISED BUSINESS EMPLOYMENT (ONE OR TWO PERIODS) .....YEAR COURSE (11-12)  
Supervised Business Employment prepares students for employment in the workplace. The academic and practical on-the-job experience relates to the student's career goal. Students who have taken business courses in a particular path career path (Business, Management and Administration, Finance and Information Technology, Finance, Information Technology) are given the opportunity to work in a related occupation while still enrolled in school. The teacher-coordinator works with business and industry to place students in an occupation that will further develop competencies acquired by the student through class work.  
Prerequisite: Concurrently enrolled in a business course.
- S7220 MARKETING AND SOCIAL MEDIA.....YEAR COURSE (11-12)  
An instructional program 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 orientation to the American free enterprise system.
- S7310 PARENTING.....SEMESTER COURSE (11-12)  
This course will focus on the following topics: parenting roles and responsibilities, parenting practices that maximize human growth and development, external support systems that provide services for parents and the physical and emotional factors related to beginning the parenting process. Students enrolled in this class will wear the empathy belly and use the Real Care babies.
- S7320 CHILD DEVELOPMENT.....SEMESTER COURSE (10-12)  
This course will focus on understanding children's physical, mental, emotional, and social growth. Emphasis will be placed on learning to interact effectively with children, solve problems based upon children's health concerns at various developmental stages, assess the impact of quality child care on the child, family, and society, and make decisions that support ethics and professionalism in child development centers.
- S7410 INTRODUCTION TO SEWING & DESIGN.....YEAR COURSE (9-12)  
Ready to design your own clothing? This course will teach you how to properly operate and maintain a sewing machine and notions. This class will enable you to fix minor repairs and construct your own shorts! You will learn to apply pattern directions to garment construction, insert zippers, and how to applique. We will explore the history of fashion and continue to communicate about current fashion to strength our vocabulary and understanding.  
Please Note: Students are responsible for purchasing their own material for all larger assignments in the class.

- S7420 FASHION DESIGN.....YEAR COURSE (9-12)  
 In this class you will learn to create more advanced and in-depth fashion design projects using intermediated machine skills. You will learn to apply pattern directions to garment construction, redesign old clothing into new fashionable items, insert zippers, and how to applique. We will explore the history of fashion and continue to communicate about current fashion to strengthen our vocabulary and understanding.  
Prerequisite: Introduction to Sewing & Design  
Note: Students are responsible for purchasing their own materials for all larger assignments in class.
- S7510 NUTRITION AND WELLNESS.....SEMESTER COURSE (9-12)  
 The Nutrition and Wellness class prepares students to understand the principles of nutrition, the relationship of nutrition to health and wellness, meal management to meet individual and family food needs and patterns of living, food economics and ecology, optimal use of the food dollar, understanding and promoting nutritional knowledge, and application of related math and science skills. Competencies identified for this course enable students to construct meaning pertinent to the related aspects of nutrition, health, physiology, and food choices.
- S7520 GENERAL FOODS .....YEAR COURSE (9-11)  
 This class is designed to introduce the principles of food preparation to interested students. Students will become familiar with safety and sanitation techniques, equipment, measuring and following a recipe. The class will spend at least 25% of class time in a hands-on kitchen setting. Food preparation will include quick breads, fruits, eggs and dairy recipes.
- S7540 GLOBAL FOODS.....SEMESTER COURSE (10-12)  
 Global Foods will take students on a culinary tour around the world. Students will compare cuisines, ingredients, and cooking methods of various cultures. The influence of traditions and culture on foods will be emphasized. Students will also examine the issues and conditions that affect the availability and quality of food in the global market while applying advanced cooking techniques. Chinese, soul, west African, French and Native American dishes will be prepared.  
Prerequisite: General Foods I
- S7550 FOUNDATIONS OF RESTAURANT MANAGEMENT I.....YEAR COURSE (10-12)  
 The Culinary Arts I course is designed to introduce students to the basics of the restaurant, food service, and lodging industries, as well as employment opportunities within the hospitality industry. Students will review food safety and sanitation principles before they progress to food preparation. Soups, sauces, fruits, vegetables, and grain products will be the areas of study for food preparation. Communication essentials including workplace conduct, management skills, and meeting customer needs and expectations will be addressed, as well as the essentials needed in building a successful career in the food service, restaurant, and lodging industries.  
Prerequisite: General Foods.  
Note: C or better in General Foods is strongly recommended.
- S7560 FOUNDATIONS OF RESTAURANT MANAGEMENT II.....YEAR COURSE (11-12)  
 The focus of the second year of this two-year program is actual food production. The course will include food preparation techniques to appropriately produce breakfast foods, sandwiches, salads, garnishes, meat, poultry, seafood, desserts, and baked goods. In addition to food preparation, the course will cover nutrition, cost controls, purchasing, inventory management, marketing, and sustainability of the restaurant and food service industry.  
Prerequisite: Foundations of Restaurant Management.  
Note: C or better in Foundations of Restaurant Management is strongly recommended.
- S7620 DRAFTING & DESIGN TECHNOLOGY.....YEAR COURSE (10-12)  
 Drafting & Design Technology will provide students with the opportunity to become familiar with the fundamentals of technical drawing and the significance it has in 21st century life. This course allows the student to explore the major areas of machine and electronic drafting. Areas to be covered include sketching, lettering, mechanical drawing, pictorials, views of objects, and dimensioning. Drawings will be assigned with emphasis on accuracy, proper line technique, and neatness. Mechanical drawing and/or Computer Aided Drafting (AutoCAD, Autodesk) will be utilized to complete drawings.

- S7710 WOODWORKING, RESIDENTIAL WIRING AND PLUMBING.....YEAR COURSE (9-12)  
Students are introduced to the construction areas of carpentry, residential wiring, and plumbing. This course includes working safely with tools and machines (hand and power tools). Students will develop their woodworking skills such as planning, laying out, constructing, and finishing techniques. Students will gain a basic understanding of electrical circuits and wiring, along with plumbing practices and components that are all found in residential homes.
- S7720 WOODWORKING II, CONSTRUCTION TECH AND HOME REPAIR.....YEAR (10-12)  
Students will build upon their learning in Woodworking and prepare for entry in a carpentry pre-apprenticeship or application for North Technical High School's carpentry program. Also suitable for students in the Engineering Program or students who are interested in architecture.  
Prerequisite: WOODWORKING
- S7810 PLTW: INTRODUCTION TO ENGINEERING AND DESIGN (IED) .....YEAR COURSE (9-12)  
The major focus of IED is the design process and its application. Through hands-on projects, students apply engineering standards and document their work. Students use industry standard 3D modeling software to help them design solutions to solve proposed problems, document their work using an engineer's notebook, and communicate solutions to peers and members of the professional community.
- S7820 PLTW: PRINCIPLES OF ENGINEERING (POE) .....YEAR COURSE (9-12)  
This survey course exposes students to major concepts encountered in a post-secondary engineering course of study. Topics include mechanisms, energy, statics, materials, and kinematics. Students develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work, and communicate solutions.
- S7830 AP COMPUTER SCIENCE PRINCIPLES (AP CSP).....YEAR COURSE (10-12)  
AP Computer Science Principles 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. Students use Python® as a primary tool and incorporate multiple platforms and languages for computation, this course aims to develop computational thinking. PLTW is recognized by the College Board as an endorsed provider of curriculum and professional development for AP® Computer Science Principles (AP CSP).
- S7840 PLTW: ENGINEERING DESIGN & DEVELOPMENT (EDD).....YEAR COURSE (12)  
The knowledge and skills students acquire throughout PLTW Engineering come together in Engineering Design and Development as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, completing Engineering Design and Development ready to take on any post-secondary program or career.  
Prerequisite: Computer Science Principles, Introduction to Engineering Design and Principles of Engineering.
- S7910 COMPUTER SCIENCE DISCOVERIES.....YEAR COURSE (9-12)  
Computer Science Discoveries (CS Discoveries) is an introductory computer science course that empowers students to create authentic artifacts and engage with computer science as a medium for creativity, communication, problem solving, and fun. Students will learn web design using HTML and CSS and game design using JavaScript.
- S7920 AP COMPUTER SCIENCE A .....YEAR COURSE (11-12)  
AP CS A introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design. These techniques represent proven approaches for development solutions that can scale up from small, simple problems to large, complex problems. By the end of this course, students will be able to: Design and implement computer-based solutions to problems. Use and implement commonly used algorithms and data structures. Develop and select appropriate algorithms and data structures to solve new problems. Write solutions fluently an object-oriented paradigm. Write, run, test and debug solutions in the Java programming language. Read and understand programs consisting of several classes and interacting objects. Read and understand a description of the design and development process. Understand the ethical and social implications of computer use.  
Prerequisite: AP Computer Science Principles

## AIR FORCE JUNIOR RESERVE OFFICER TRAINING CORP COURSES

MINIMUM GRADUATION REQUIREMENTS: None. Course is for elective credit.

*The mission of the AFJROTC program is to build better citizens for America. The goals of the program are to instill values of citizenship, service to the United States, personal responsibility, and a sense of accomplishment in high school students. The objectives of AFJROTC are to educate and train high school cadets in citizenship; promote community service; instill responsibility, character, and self-discipline; and provide instruction in air and space fundamentals.*

HEALTH & WELLNESS NOTE: *All courses include the JROTC wellness program, which is a minimum of one day a week (usually Friday) of physical fitness exercises and the development of an individual lifetime health and wellness plan. Cadets will be given the opportunity to put into practice the wellness concepts that are taught in Leadership Education I. Activities include team sports enhancing team building and leadership skills. Personal improvement will be rewarding. The program is comprised of 19 exercises (including the 1-mile run). The exercises develop all muscle groups and provide sufficient anaerobic and aerobic intensity.*

### S9010 AEROSPACE SCIENCE 1/LEADERSHIP EDUCATION 1: .....YEAR Course (9-12)

#### THE SCIENCE OF FLIGHT/ CITIZENSHIP, CHARACTER, & AIR FORCE TRADITIONS/DRILL & CEREMONIES

The Science of Flight is designed to acquaint the student with the aerospace environment, the human requirements of flight, principles of aircraft flight, and principles of navigation. The course begins with a discussion of the atmosphere and weather. After developing an understanding of the environment, how that environment affects flight is introduced. Discussions include the forces of lift, drag, thrust, and weight. The portion on the Human Requirements of Flight is a survey course on human physiology. Discussed here are the human circulatory system, the effects of acceleration and deceleration, and protective equipment. Leadership Education 1 introduces cadets to the Air Force Junior Reserve Officer Training Corps (AFJROTC) program providing a basis for progression through the rest of the AFJROTC program while instilling elements of good citizenship. It contains sections on cadet and Air Force organizational structure; uniform wear, customs, courtesies and other military traditions, health & wellness, fitness, individual self-control, and citizenship. Drill & Ceremonies introduces the importance of drill with regards to basic military drill. Cadets will learn basic commands and characteristics of the command voice, identify the types of commands used during the basic military drill movements and the necessary qualities of the command voice. Drill may continue throughout each AS year.

### S9020 AEROSPACE SCIENCE 2/LEADERSHIP EDUCATION 2: .....YEAR Course (10-12)

#### A JOURNEY INTO AVIATION HISTORY/COMMUNICATION, AWARENESS, & LEADERSHIP

A Journey into Aviation History focuses on the development of flight throughout the centuries. It starts with ancient civilizations, then progresses through time to modern day. The emphasis is on civilian and military contributions to aviation; the development, modernization, and transformation of the Air Force; and a brief astronomical and space exploration history. It is interspersed with concise overviews of the principles of flight to include basic aeronautics, aircraft motion and control, flight power, and rockets.

Communication, Awareness & Leadership stresses communications skills and cadet corps activities. Much information is provided on communicating effectively, understanding groups and teams, preparing for leadership, solving conflicts and problems, and personal development. Written reports and speeches complement the academic materials.

Prerequisite: Pass Aerospace Science 1 and permission of Senior Aerospace Science Instructor/Aerospace Science Instructor.



- S9030 AEROSPACE SCIENCE 3/LEADERSHIP EDUCATION 3: .....YEAR Course (11-12)  
 EXPLORING SPACE (THE HIGH FRONTIER)/LIFE SKILLS & CAREER OPPORTUNITIES  
 Exploring Space (The High Frontier) begins with the study of the space environment from the earliest days of interest in astronomy and early ideas of the heavens, through the Renaissance, and on into modern astronomy. It provides an in-depth study of Earth, Sun, stars, Moon, and solar system, including the terrestrial and the outer planets. It discusses issues critical to travel in the upper atmosphere such as orbits and trajectories unmanned satellites, and space probes, and investigates the importance of entering space and discusses manned and unmanned space flights, focusing on concepts surrounding spaceflight, space vehicles, launch systems, and space missions. The section on manned spaceflight focuses on the Space Shuttle, space stations and beyond, covering milestones in the endeavor to land on the Moon and to safely orbit humans and crafts for temporary and prolonged periods. The course covers the human aspect of spaceflight, focusing on the human experience in space. The Life Skills & Career Opportunities component of this course will be helpful to students in deciding which path to take after high school. Information on how to apply for admission to college or to a vocational or technical school is included along with how to begin the job search for students who decide not to go to college or vocational school. Students will learn life skills such as financial planning, legal information, and citizenship.  
Prerequisite: Pass Aerospace Science 1 and permission of Senior Aerospace Science Instructor/Aerospace Science Instructor.
- S9040 AEROSPACE SCIENCE 4: PRINCIPLES OF MANAGEMENT .....YEAR Course (11-12)  
 This course provides exposure to the fundamentals of management. The text contains many leadership topics that will benefit students as well as provide them with some of the necessary skills needed to put into practice what they have learned during their time in AFJROTC. This course will equip students with the qualities needed to serve in leadership positions within the corps. Throughout the text are many ethical dilemmas, case studies, and role play activities built into the lessons. These activities are based on real life experiences and will allow students the opportunity to practice what they learn by getting involved in discussions and expressing their opinions. During the fourth year, the cadets manage the entire corps.  
Prerequisite: Pass Aerospace Science 3 and permission of Senior Aerospace Science Instructor/Aerospace Science Instructor.

## SCIENCE

*3 Science credits are required for graduation.*

- S3110 PHYSICAL SCIENCE.....YEAR COURSE (9)  
This course includes problem solving by using scientific methods, tools of measurement, and scientific models. Topics covered include properties and structures of matter, physical and chemical changes in matter, laws of motion, work, and energy.
- S3210 BIOLOGY.....YEAR COURSE (10-12)  
Students will be introduced to the scientific study of living things. First semester biology covers cellular biology, genetics, biotechnology, biochemistry. Second semester biology covers evolution, classification, microorganisms, ecology, and comparative zoology. Laboratory experiments are frequently performed. Students will take the Missouri End-Of-Course Biology Exam near the end of their second successful semester of Biology.  
Prerequisite: Physical Science.
- S3250 Pre-AP BIOLOGY.....YEAR COURSE (9-10)  
This class is the Pre-AP equivalent of Biology. First semester biology covers cellular biology, genetics, biotechnology, biochemistry. Second semester biology covers evolution, classification, microorganisms, ecology, and comparative zoology. Laboratory experiments are frequently performed and students will participate in the UCHS annual biotechnology debate in the spring. Students will take the Missouri End-Of-Course Biology Exam near the end of their second successful semester of Honor Biology.  
Prerequisite: Physical Science or 8th grade teacher recommendation.  
Note: B or better in Physical Science is strongly recommended.
- S3310 CHEMISTRY.....YEAR COURSE (10-12)  
Topics covered include chemical bonds, naming compounds, types of reactions, mole and acid/base chemistry.  
Prerequisite: Algebra 1.2, Biology
- S3350 Pre-AP CHEMISTRY.....YEAR COURSE (10-12)  
This course is the Pre-AP equivalent of Chemistry. Topics covered include chemical bonds, naming compounds, types of reactions, gas laws, stoichiometry, mole and acid-base chemistry. Topics covered in Pre-AP Chemistry will be taught at a more rigorous and quantitative level than those taught in Chemistry. Students must pass first semester Pre-AP Chemistry to remain enrolled in second semester Pre-AP Chemistry.  
Prerequisite: Algebra 1.2, Biology  
Note: B or better in Physical Science or Biology is strongly recommended.
- S3410 ECOLOGY.....YEAR COURSE (12)  
Ecology is the scientific study of living organisms and how they interact with their environment. Students will examine the social relationships among and between animal species. This study will include a look at causes and effects of environmental factors and geographic distribution of animals and plants. Students will make observations and have experiences in the field and lab.  
Prerequisite: Biology or Pre-AP Biology.
- S3510 PHYSICS.....YEAR COURSE (10-12)  
Students will be introduced to theories (models) of the physical world, and to the relationship of these theories to the people and the times in which they were first developed. Topics will include mechanics, electricity and magnetism, and atomic physics. This course includes extensive problem solving.  
Prerequisites: Algebra 2.2, Physical Science and Biology.
- S3550 Pre-AP PHYSICS.....YEAR COURSE (10-12)  
Physics is the study of the laws of nature and how they operate. Students in Pre-AP Physics will develop models that explain and predict the operation of these natural laws through various methods, including hands-on activities and laboratories, minds-on activities, demonstrations and discussions. The course emphasizes conceptual understandings and extensive mathematical problem solving. Topics include Newtonian mechanics, electricity and magnetism and mechanical waves and sound.  
Prerequisites: Completed Algebra 2 or taken concurrently.  
Note: B or better in Physical Science or Biology is strongly recommended.

- S3610 AP BIOLOGY.....YEAR COURSE (11-12)  
 This is a rigorous college level course. Topics covered include molecular and cellular biology, physiology, population biology, taxonomy, ecology, and behavior. Students are expected to do extensive out of class preparation. Students who take this course are expected to take the AP Exam in May. Scoring a 3 or better on this exam will yield 3-6 credit hours at the vast majority of colleges and universities in the nation. Students must also enroll in AP Biology Lab. Students must pass first semester AP Biology to remain enrolled in second semester AP Biology. Although not a prerequisite, students should highly consider taking Physics before taking a second biology course.  
Prerequisites: Physical Science, Biology and Chemistry.  
Note: B or better in Physical Science, Biology and Chemistry is strongly recommended
- S3611 AP BIOLOGY LAB.....YEAR COURSE (11-12)  
 This lab course is taken simultaneously with AP Biology. Lab meets during another period of the day to allow for additional laboratory time.
- S3620 AP CHEMISTRY.....YEAR COURSE (11-12)  
 Students will explore the ideas developed in the first-year chemistry course in greater depth as well as learn new material. Topics covered will include quantum theory, measurement, bonding, thermochemistry, thermodynamics, equilibrium, kinetics, and acid-base chemistry. Students are expected to do extensive out of class reading and preparation. Students who take this course are expected to take the AP Exam in May. Scoring a 3 or better on this exam will yield 3-6 credit hours at the vast majority of colleges and universities in the nation. Students must also enroll in AP Chemistry Lab. Students must pass first semester AP Chemistry to remain enrolled in second semester AP Chemistry. Although not a prerequisite, students should highly consider taking Physics before taking a second chemistry course.  
Prerequisites: Biology, Chemistry and Algebra 2.  
Note: B or better in Biology, Chemistry and Algebra 2 is strongly recommended.
- S3621 AP CHEMISTRY LAB.....YEAR COURSE (11-12)  
 This lab course is taken simultaneously with AP Chemistry. Lab meets during another period of the day to allow for additional laboratory time.
- S3630 AP PHYSICS.....YEAR COURSE (11-12)  
 Students will be introduced to models of gravitation and electricity, and solving problems connected with these models. Topics will include mechanics and electricity. Students are expected to do extensive out of class preparation. Students are also required to attend class during alternating seminar periods. Students who take this course are expected to take the AP Exam in May. Scoring a 3 or better on this exam will yield 3-6 credit hours at the vast majority of colleges and universities in the nation. Students must also enroll in AP Physics Lab.  
Prerequisites: Biology and Chemistry. Pass or take Calculus concurrently.  
Note: B or better in Biology and Chemistry is strongly recommended.
- S3631 AP PHYSICS LAB.....YEAR COURSE (11-12)  
 This lab course is taken simultaneously with AP Physics. Lab meets during another period of the day to allow for additional laboratory time.
- S3710 HUMAN ANATOMY AND PHYSIOLOGY (DUAL CREDIT - BIOLOGY 109).....YEAR COURSE (11-12)  
**BIO 109. Human Biology (STLCC MOTR LIFS 100). 3 Credit Hours.**  
 This course is an introduction to basic human structure, function and the human body's interaction with its surroundings, including cell theory, genetics, systems biology, ecology and evolution. This course does not fulfill any of the Allied Health and Nursing program requirements at St Louis Community College. This course may fulfill Allied Health and Nursing program requirements at other institutions.  
Prerequisites: Physical Science, Biology and Chemistry and reading proficiency.

# SOCIAL STUDIES

*3 Social Studies credits are required for graduation.*

- S2110 WORLD HISTORY.....YEAR COURSE (9)  
The purpose of the study of World History is to create a better understanding of why individuals, families, communities, and nations cooperate and compete with one another. Exploring how and why ideas from the past have worked or failed is essential to developing critical and independent thinkers who can make positive contributions to the world. Topics will include Eastern and Western philosophy and major religions; European, Asian, and African foundations; Nationalism, Imperialism, and Democratization; historic events in Africa, Asia, Europe, and the Americas; historical international conflicts; and much more.
- S2150 Pre-AP WORLD HISTORY.....YEAR COURSE (9)  
Honors World History is a one-year course of study that successfully integrates content, ideas, and performance skills to develop oral communication, critical thinking and study, fluent writing, and constructive research. The focus of the course is the interaction among world cultures and the significant social, political, and economic events that shape the lives of the people of the countries studied. The diffusion and diversity of the groups studied provide a unique historical perspective for the students. This comprehensive course of study covers prehistoric events to the present century, including western and non-western civilizations. Students will be taught to identify unstated assumptions, analyze primary and secondary sources, determine the strength of arguments, and judge the validity and accuracy of information and claims. Topics that will be covered in the course are The Golden Ages of Asia, Africa, and the Middle East; continuity and change in Asia and Africa; the impact of scientific thought; democratic revolutions; wars for independence; and global challenges 1945 - present.  
Prerequisite: Teacher recommendation.
- S2160 AP WORLD HISTORY.....YEAR COURSE (11-12)  
This course offers a secondary school equivalent to an introductory college course. The purpose of the course is to develop a greater understanding of the evolution of global processes and contacts in interaction with different types of human societies. The curriculum highlights a combination of factual knowledge, appropriate analytical skills, and a high level of document-based writing assignments. The course builds on understanding historical evidence through cultural, institutional, and technological precedents that, along with geography, set apart different human civilizations. Specific themes and periodization are explicitly discussed to give chronological order of world events to make the class balanced and challenging. This rigorous course parallels college-level courses and meets the expectations of the College Board for a World History Advanced Placement course. Students who take this course are expected to take the AP Exam in May. Scoring a 3 or better on this exam will yield 3-6 credit hours at the vast majority of colleges and universities in the nation. Summer reading of designated books and documents are a requirement of this course.  
Prerequisite: Pass or take Government concurrently.  
Note: B or better in a prior social studies course is strongly recommended.
- S2170 AP-Dual Credit WORLD HISTORY.....YEAR COURSE (11-12)  
This course offers a secondary school equivalent to an introductory college course. The purpose of the course is to develop a greater understanding of the evolution of global processes and contacts in interaction with different types of human societies. The curriculum highlights a combination of factual knowledge, appropriate analytical skills, and a high level of document-based writing assignments. The course builds on understanding historical evidence through cultural, institutional, and technological precedents that, along with geography, set apart different human civilizations. Specific themes and periodization is explicitly discussed to give chronological order of world events to make the class balanced and challenging. This rigorous course parallels college-level courses and meets the expectations of the College Board for a World History Advanced Placement course. Students who take this course are expected to take the AP Exam in May. Scoring a 3 or better on this exam will yield 3-6 credit hours at the vast majority of colleges and universities in the nation. Summer reading of designated books and documents are a requirement of this course. The dual credit component of this course operates simultaneously with Advanced Placement, however, where AP credit is earned from passing the exam in May, performance over the entire semester earns college hours at a specific institution of higher education; 3 hours per semester. The “dual” refers to the high school and college credit earned within a single course. AP-Dual Credit is a hybrid in which high school and two types of college credit can be earned within a single course and classroom simultaneously.  
Prerequisite: Pass or take Government concurrently.  
Minimum GPA: 10th Grade, 3.0, 11-12th Grade, 2.5  
Minimum Accuplacer Reading Score: 77

- S2210 U.S. HISTORY.....YEAR COURSE (10)  
 University City requires students to take this course during the sophomore year. Students will survey United States history from the end of the 19th century to the present with emphasis on the 20th century. Students will analyze issues in great detail and read a variety of materials. Special attention will be given to the history of African Americans, Indigenous and Native Americans, women, and the labor movement. This course will trace the ideas and traditions that are fundamental to the American government while focusing on significant individuals and organizations that have influenced the American political system. Considerable emphasis will be placed on current problems, civil rights, world leadership, capitalism, and the U.S. economic system.
- S2250 Pre-AP U.S. HISTORY.....YEAR COURSE (10)  
 University City requires students to take this course during the sophomore year. In this course, students will survey United States history from the end of the 19th century to the present. Study topics include the social, economic, and political development of the nation throughout the 20th century. Study topics also include women, African Americans, and other minorities. Learning activities include research projects, role-playing, primary and secondary source evaluations, debating, inductive and deductive reasoning activities, and other hands-on student learning. Students will complete a major paper or project each semester.  
Prerequisite: World History.
- Note: B or better in World History is strongly recommended.
- S2260 AP U.S. HISTORY.....YEAR COURSE (10-12)  
 In this elective course, students who want to study historical events in depth will study the Colonial Period to the present following a college-driven curriculum. Topics will be analyzed in great detail and past events will be related to current issues. Students will read a college-level text and additional advanced supplementary readings. Document-based questions, discussions, and writings are a major component of the learning activities in this course. Assessments often model the AP Exam format. This rigorous course parallels college-level courses and meets the expectations of the College Board for a United States History Advanced Placement course. Students who take this course are expected to take the AP Exam in May. Scoring a 3 or better on this exam will yield 3-6 credit hours at the vast majority of colleges and universities in the nation. Summer reading of designated books and documents are a requirement of this course.  
Prerequisite: World History.  
Note: B or better in a prior social studies course is strongly recommended.
- S2270 AP-Dual Credit U.S. HISTORY.....YEAR COURSE (10-12)  
 In this elective course, students who want to study historical events in depth will study the Colonial Period to the present following a college-driven curriculum. Topics will be analyzed in great detail and past events will be related to current issues. Students will read a college-level text and additional advanced supplementary readings. Document-based questions, discussions, and writings are a major component of the learning activities in this course. Assessments often model the AP Exam format. This rigorous course parallels college-level courses and meets the expectations of the College Board for a United States History Advanced Placement course. Students who take this course are expected to take the AP Exam in May. Scoring a 3 or better on this exam will yield 3-6 credit hours at the vast majority of colleges and universities in the nation. Summer reading of designated books and documents are a requirement of this course. The dual credit component of this course operates simultaneously with Advanced Placement, however, where AP credit is earned from passing the exam in May, performance over the entire semester earns college hours at a specific institution of higher education; 3 hours per semester. The “dual” refers to the high school and college credit earned within a single course. AP-Dual Credit is a hybrid in which high school and two types of college credit can be earned within a single course and classroom simultaneously.  
Prerequisite: World History.  
 Minimum GPA: 10th Grade, 3.0, 11-12th Grade, 2.5  
 Minimum Accuplacer Reading Score: 77

- S2310 GOVERNMENT.....YEAR COURSE (11)  
**Missouri law requires that all students take and pass at least one semester of a government or civics class and pass the Missouri and U. S. Constitution exams in order to meet state graduation requirements.** Students in this course will learn about the foundations of the government of the United States of America, the State of Missouri, and local governments. Students will have learning activities to help understand the three branches of government and how they work, including an in-depth study of the political system and the roles of citizens in this process. Students will also compare other political systems and philosophies with the democratic republic of the U.S. A major goal is that students (all of whom will soon be able to vote) will be well-informed citizens who understand the political processes that operate around them locally, statewide, and nationally.
- S2360 AP GOVERNMENT.....YEAR COURSE (11-12)  
**Missouri law requires that all students take and pass at least one semester of a government or civics class and pass the Missouri and U. S. Constitution exams in order to meet state graduation requirements.** Students in this course will learn about the foundations of the government of the United States of America, the state of Missouri, and local government. Students will study in depth the U.S. political system, historical documents, individuals and organizations that have impacted the government from pre-colonial days through the 21st century, and the roles and responsibilities of citizenship. This rigorous course parallels college-level courses and meets the expectations of the College Board for a Government Advanced Placement course. Students who take this course are expected to take the AP Exam in May. Scoring a 3 or better on this exam will yield 3-6 credit hours at the vast majority of colleges and universities in the nation. Summer reading of designated books and documents are a requirement of this course.  
Prerequisite: U.S. History. Note: B or better in U.S. History is strongly recommended.
- S2510 PSYCHOLOGY.....SEMESTER COURSE (11-12)  
This is a survey course covering various psychological concepts. Topics include development, socialization, perception, communication, deviant behavior, pathology, and personality theory. Students will be required to write at least four analytical papers during this course.  
Prerequisite: U.S. History.
- S2550 AP PSYCHOLOGY.....YEAR COURSE (11-12)  
This is a survey course covering various psychological concepts. Topics include development, socialization, perception, communication, deviant behavior, pathology, and personality theory. Students will be required to write at least four analytical papers during this course. This rigorous course parallels college-level courses and meets the expectations of the College Board for a Psychology Advanced Placement course. Students who take this course are expected to take the AP Exam in May. Scoring a 3 or better on this exam will yield 3-6 credit hours at the vast majority of colleges and universities in the nation. Summer reading of designated books and documents are a requirement of this course.  
Prerequisite: U.S. History.  
Note: B or better in a prior social studies course is strongly recommended.
- S2720 SOCIAL JUSTICE.....SEMESTER COURSE (11-12)  
Social Justice is a year-long elective course that teaches the basic understanding of the foundations of law and the evolving interpretation of individual civil rights and liberties. Students will be introduced to the tools of inquiry through minor and major projects requiring the individual or team research. Students will be required to seek solutions to social problems using these methods that are scientifically and logically sound. Students will use the sociological perspective to investigate societal conditions and examine the laws relating to social institutions such as family, education, religion, politics, and economics. Students will use the three lenses of sociology: Structural-Functional, Symbolic Interaction, and Critical Theory to discuss the social change in developing and advanced nations and the essentials of ethnic, urban, industrial, and political sociology.  
Prerequisite: U.S. History
- S2730 AFRICAN AMERICAN EXPERIENCE.....SEMESTER COURSE (11-12)  
Students will survey the experiences of African Americans and their ancestors. This course focuses on the history and culture of ancient Africa and its contributions and impact on the world. Students will additionally learn about the Transatlantic slave trade to Reconstruction, Kwanzaa and celebrate this African American holiday.  
Prerequisite: U.S. History.
- S2710 LAW AND YOU ..... SEMESTER Course (11-12)  
Law and You is a year-long elective course that teaches the basic understanding of the foundations of law. Major

units include basic foundations and principal of legal matters, criminal law, civil law, family law, consumer law, juvenile law, and constitutional law. Prerequisite: Pass U.S. History.

## WORLD LANGUAGE COURSES

- S5110 FRENCH I.....YEAR COURSE (9-12)  
This introduction to the French language is available to students with no prior world language experience and to students who explored French in elementary or middle school. Students will emphasize speaking and listening skills, learning the vocabulary of daily life and such basic skills as making a purchase, asking directions, and ordering from a menu. The course includes audio and video lessons which supplement the textbook.
- S5120 FRENCH II.....YEAR COURSE (9-12)  
Second-year students will practice conversational skills, expand their knowledge of important grammatical structures and verb tenses, and begin writing original paragraphs in French. There is a special focus on the cultures of the French-speaking world which includes units on the Caribbean and Africa. Students will use the Internet for research and greatly expand their French vocabulary.  
Prerequisite: French I or middle school French.
- S5130 FRENCH III.....YEAR COURSE (10-12)  
Third-year students will continue their study of grammatical structures and emphasize writing and reading skills. Conversational activities will be based on themes, such as leisure activities, health, communications, and travel. The spring semester will include an introduction to French literature. Students will use terminology to explore areas of interest.  
Prerequisite: French II.
- S5140 FRENCH IV.....YEAR COURSE (11-12)  
French IV combines the study of French grammar, civilization, and literature. Grammatical studies include the introduction of the compound tenses, the subjunctive mood, and the appropriate use of pronouns. Students will survey French civilization, emphasizing vocabulary and conversational skills. The spring semester will include the reading of a novel and the writing of short compositions on topics of historical and literary significance.  
Prerequisite: French III.
- S5160 AP FRENCH.....YEAR COURSE (11-12)  
This course combines the study of French grammar, civilization, and literature at an advanced level. This advanced placement course emphasizes skills such as translating articles and editorials from newspapers, magazines and daily news shows, preparing short speeches in French, comprehending audio programs and excerpts, and reading from selected works of nationally designated authors. All activities and skill acquisition in the target language will help the student prepare for the AP Exam in the spring.  
Note: Students who take this course are expected to take the AP Exam in May. Scoring a 3 or better on this exam will yield 3-6 credit hours at the vast majority of colleges and universities in the nation.  
Prerequisite: French IV
- S5210 LATIN I.....YEAR COURSE (9-12)  
This course of study begins with vocabulary and basic grammatical forms. Reading and translation are used as a means of practicing these forms. Roman history and culture are examined as the context in which the Latin language developed. Correspondence between Latin and English language arts is noted.
- S5220 LATIN II.....YEAR COURSE (9-12)  
This course of study continues with vocabulary and basic grammatical forms. Reading and translation are used as a means of practicing these forms. Students delve deeper into Roman history and culture as the context in which the Latin language developed. Students continue to learn the relationship between Latin and English language arts.  
Prerequisite: Latin I or middle school Latin.

- S5230 LATIN III.....YEAR COURSE (10-12)  
As an advanced course, student vocabulary and basic grammatical forms continue to be expanded. Reading and translation focus on more complex text with the study of Latin literature, as well as the practice of complex grammatical forms. Roman history and culture are more deeply examined.  
Prerequisite: Latin II.
- S5240 LATIN IV.....YEAR COURSE (11-12)  
This advanced Latin course prepare students for the National Latin Exam with extensive literature, vocabulary and grammar. Students continue to explore Roman history and culture.  
Prerequisite: Latin III.
- S5250 AP LATIN.....YEAR COURSE (11-12)  
This course of study is designed to prepare students for the Advanced Placement examination given in May. This course will focus on an in-depth study of the Aeneid, stressing translation, literary devices, essay writing, grammar review, and vocabulary acquisition. Students taking this course are strongly encouraged to take the AP exam offered in the spring.  
Note: Students who take this course are expected to take the AP Exam in May. Scoring a 3 or better on this exam will yield 3-6 credit hours at the vast majority of colleges and universities in the nation.  
Prerequisite: Latin IV
- S5310 SPANISH I.....YEAR COURSE (9-12)  
Spanish I is a beginning course which introduces basic concepts of Spanish. Emphasis is placed on intensive audio-lingual drills that concentrate on correct pronunciation, intonation, simple conversation, and auditory perception. This additional emphasis on sentence structure, vocabulary, and reading permit greater familiarity with varied aspects of Spanish culture. Games, songs, movies, contests, and theme readings all will add spice to this course.
- S5320 SPANISH II.....YEAR COURSE (9-12)  
This continuing course after Spanish I presents more challenging concepts from the Spanish language. Students learn more about the lives, countries, and cultures of Spanish-speaking people. Students will learn more advanced grammar and vocabulary in order to improve their basic communication skills.  
Prerequisite: Spanish I or middle school Spanish.
- S5330 SPANISH III.....YEAR COURSE (10-12)  
This course of intermediate Spanish concentrates on speaking and listening skills with an increased emphasis on practical dialogues and conversation. Practice drills are designed to develop facility in the use of the Spanish language while attention is given to the cultures of several Hispanic countries and to Spain. The reading of some introductory literary works enhances the “gusto” of this level of Spanish.  
Prerequisite: Spanish II.
- S5340 SPANISH IV.....YEAR COURSE (11-12)  
This more advanced course of presentation and review serves to solidify self-confidence and some research skills of the individual student. Language structure is taken through most tenses with concentrated review in spoken and written formats. Readings in several works of prose brighten the outlook of this course.  
Prerequisite: Spanish III.
- S5350 AP SPANISH.....YEAR COURSE (11-12)  
The Advanced Placement course emphasizes refining the product of individualized assignments and capabilities. Skills such as translating articles and editorials from newspapers and magazines, preparing short speeches in Spanish, comprehending audio programs and excerpts, and reading from selected works of nationally designated authors all help to ready the student for the AP exam.  
Note: Students who take this course are expected to take the AP Exam in May. Scoring a 3 or better on this exam will yield 3-6 credit hours at the vast majority of colleges and universities in the nation.  
Prerequisite: Spanish I



## SPECIAL SCHOOL DISTRICT COURSES

### MATH: PRE ALGEBRA.....YEAR COURSE (9-10)

Pre-Algebra offers students an opportunity to continue their study on the fundamental mathematical concepts learned at the middle school level and prepare for transition into Algebra 1. Students will focus on rational numbers, relationships, order of operations, and ways of representing them. Basic characteristics of two and three dimensional shapes will be covered. Students will learn about the measurable attributes of objects and use appropriate units to find area and perimeter. Using data displays, students will analyze and make interpretations, calculate the mean, median and mode. Students will understand and apply basic concepts of probability. Additional topics include representing and analyzing mathematical situations using elementary algebra. Students will complete the course at a pace compatible with their learning and use supplementary material for multi-sensory experiences.

Prerequisite: IEP team decision.

### MATH: PARALLEL ALGEBRA I.....YEAR COURSE (9-12)

Parallel Algebra 1 is a modified curriculum course which uses supplementary materials and activities to teach the basic concepts and skills of elementary algebra. Skills to be covered at a gradual pace include: analyzing and explaining the process of solving equations, writing, interpreting, and translating between forms of linear equations and inequalities, function notation, domain and range, translating expressions and equations, operations with real numbers, properties of real numbers, measures of central tendency, ratios and proportions, systems of equations, exponential functions, and operations with polynomials.

Prerequisite: IEP team decision.

### MATH: PARALLEL GEOMETRY.....YEAR COURSE (9-12)

Parallel Geometry is a year-long geometry sequence. Students will study geometric concepts, mathematical logic, and deductive proofs. Students will build on their work with the Pythagorean Theorem in the 8th grade to find distances, use a coordinate system to verify geometric relationships, including properties of triangles, quadrilaterals, and parallel and perpendicular lines. Students will establish triangle congruence criteria with postulates. Additional topics will include angle relationships, 2-3 dimensional figures as well as embedded algebra concepts. Students will complete the course at a slower pace and use supplemental materials for learning.

During second semester, students experience with two-dimensional and three-dimensional objects is extended to include informal explanations of circumference, area, and volume formulas. Students will continue to work with the Pythagorean Theorem, including properties of special right triangles. Students will develop the Laws of Sines and Cosines in order to find missing measures of general triangles. Students will study geometric concepts, mathematical logic, and deductive proofs. Students will use the languages of set theory to expand their ability to compute and interpret the probabilities of compound events. Students will complete the course at a slower pace and use supplemental materials for learning.

Prerequisite: Algebra 1. 2 and IEP team decision.

### MATH: PARALLEL ALGEBRA II..... YEAR COURSE (9-12)

Parallel Algebra 2 is a modified curriculum course which uses supplementary materials and activities to improve algebra skills and progress to more advanced algebra concepts. Skills to be covered at a gradual pace include: functions, systems of equations and inequalities, polynomial equations, operations with real number rational expressions, factorization, solutions of linear and quadratic equations, exponential functions, and operations with polynomials.

Prerequisite: Algebra I, Geometry, and IEP team decision.

ENGLISH LANGUAGE ARTS: PARALLEL ENGLISH I.....YEAR COURSE (9)

This is a course designed to parallel S1110, Literature and Composition I. Students will read a variety of texts with a focus on the choices authors make as they tell their stories. Students will improve critical reading and analysis skills through making inferences, noticing patterns, and recognizing symbolism. There is a focus on grammar and writing skills.

Prerequisite: IEP team decision.

ENGLISH LANGUAGE ARTS: PARALLEL ENGLISH II.....YEAR COURSE (10)

This is a course designed to parallel S1210, Literature and Composition II. Students will read a variety of texts with a focus on the choices authors make as they tell their stories. Students will improve critical reading and analysis skills through making inferences, noticing patterns, and recognizing symbolism. There is a focus on grammar and writing skills.

Prerequisite: English I and IEP team decision.

ENGLISH LANGUAGE ARTS: PARALLEL AMERICAN LITERATURE AND COMPOSITION.....YEAR COURSE (11)

Students will be exposed to a variety of texts which include novels, short stories, poetry, and film which are considered relevant and unique to the American experience. Through specialized instruction, students will understand the historical, social and literary context and relevance of texts. Students will increase, develop and strengthen writing abilities in a variety of academic genres. Students will increase their ability to understand the connections of standard English usage and conventions in formal assignments. Students will increase their interpersonal communications skills through a variety of activities, group projects, and speaking and listening exercises in the classroom.

Prerequisite: English II and IEP team decision.

ENGLISH LANGUAGE ARTS: PARALLEL WORLD LITERATURE AND COMPOSITION.....YEAR COURSE (12)

Students will be exposed to a variety of texts which include novels, short stories, poetry, and film which are considered relevant to the human race throughout the world. Through specialized instruction, students will understand the historical, social and literary context and relevance of texts. Students will increase, develop and strengthen writing abilities in a variety of academic genres. Students will increase their ability to understand the connections of standard English usage and conventions in formal assignments. Students will increase their interpersonal communications skills through a variety of activities, group projects, and speaking and listening exercises in the classroom.

Prerequisite: American Literature and IEP team decision.

PRACTICAL ARTS: PARALLEL PERSONAL FINANCE.....SEMESTER COURSE (11-12)

This course is designed for students with an IEP, and curriculum is modified to best meet the needs of individual students. This one-semester course is based on the Missouri Personal Finance Competencies and presents essential knowledge and skills to make informed decisions about real-world financial issues. The course content is designed to help students make wise spending, saving, and credit decisions and to make effective use of income to achieve personal financial success. This course is required for graduation in the State of Missouri.

Prerequisite: IEP team decision.

PRACTICAL ARTS: COMMUNITY WORK EXPERIENCE.....YEAR COURSE 3.0 CREDITS (10-12)

This course is a volunteer program providing “hands on” experiences to qualified students recommended by teachers. It involves leaving the campus from 7:30 AM to approximately 10:00 AM on Mondays, Tuesdays, Thursdays, and Fridays. Instruction is primarily at the work site with department employees acting as natural supports in conjunction with the high school teacher, and in the classroom on Wednesdays. Class work, homework, and exams will be based on daily living skills, social skills, and occupational guidance. Transportation to the work site is provided by school bus.

Prerequisite: Completion of at least one year of high school, teacher recommendation, and IEP team decision.

Note: Elective & Practical Arts Credits.

- ELECTIVE: CAREERS 1&2.....YEAR COURSE (10-12)**  
 This course is designed for students with an IEP, age 16 and older who have goals reflecting a need for work experience in a competitive setting, and who are eligible as clients of Vocational Rehabilitation (VR). Students will explore potential careers using a variety of resources. Students will in learn how to find and maintain employment, and earn competitive wages.  
Prerequisite: Enrolled in Work Experience Program.  
Note: Elective Credit.
- ELECTIVE: LEARNING STRATEGIES.....YEAR COURSE (9-12)**  
 Students will explore what it means to be a learner, what learning looks like, why it is important, and how learning can impact a person's life. As students explore the fundamentals of learning, students will be exposed to a wide variety of strategies that can be applied to their core and elective courses. Students will also work on developing stronger reading, writing, organizational, study, and task related skills.  
Prerequisite: IEP team decision.
- ELECTIVE: UZONE.....YEAR COURSE (9-12)**  
 This support transition program is a multi-disciplinary program designed to build a strong academic and emotional foundation which will empower students to use their strengths to overcome barriers to academic success and actualize their full potential. Using a social-emotional curriculum, this course offers a safe and supportive environment where students can explore the issues that might be contributing to their academic difficulties. Students must meet certain entry criteria as determined by the U-Zone building team.  
Prerequisite: UZONE team recommendation.
- ELECTIVE: COMMUNITY WORK EXPERIENCE.....YEAR COURSE 3.0 CREDITS (10-12)**  
 Students get hands-on experience in a variety of jobs at a local business through a volunteer program. They also experience job-related activities such as completing applications and interviewing and exploring independent living skills such as banking and budgeting. Students are required to get a Hepatitis A shot before beginning. A uniform is required: white polo-style or button-up shirt, black slacks, and black shoes for males; white blouse or polo-style top, black slacks or dress of appropriate length, and black shoes for females. Transportation is provided. This class requires a block of time involving three class periods (1, 3, 4). Credits are elective.  
Prerequisite: Completion of at least one year of high school, teacher recommendation, and IEP decision.
- COMMUNITY BASED INSTRUCTIONAL PROGRAM PART I.....YEAR COURSE 2.0-3.0 CREDITS (9-10)**  
 This course is offered in a block in the beginning of the school day. The goal is to help students gain work and social skills in a real work setting. Students volunteer their time during the school day to learn skills alongside employees. They will also participate in weekly trips in the community to gain social, academic, community, and life skills. Students will work on functional and work-related academics along with self-advocacy and social skills. They may also take extra classes in the afternoon that build on the skills from the morning instructional block. A uniform may be required. Credits may be electives or core.  
Prerequisite: IEP team decision.
- COMMUNITY BASED INSTRUCTIONAL PROGRAM PART II.....YEAR COURSE 2.0-3.0 CREDITS (11-12)**  
 This course is offered in a block schedule at the beginning of the school day. The goal is to help students gain work and social skills in a real-world vocational setting. Students volunteer their time during the school day to learn job skills alongside actual employees. They will also participate in weekly trips throughout the community to gain social, academic, community access, and life skills. When in the classroom, the students will work on functional and work-related academics along with self-advocacy and social skills. In addition, students may take elective or core classes in the afternoon to help build on the skills from the morning instructional block.  
Prerequisite: IEP team decision.

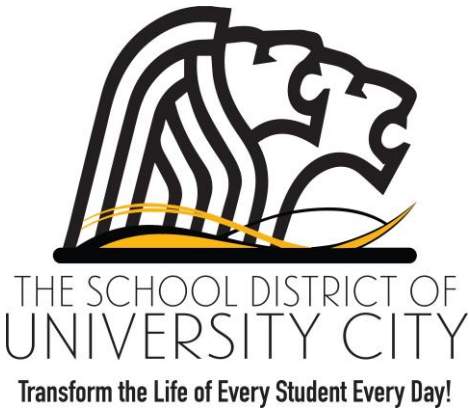
**UNIVERSITY CITY HIGH SCHOOL**

7401 Balson Ave  
University City, MO 63130

**(314) 290-4100**

**ADMINISTRATION**

Superintendent of Schools.....	Dr. Sharonica Hardin-Bartley
Principal.....	Mr. Michael Peoples
Assistant Principal.....	Ms. Kimberly Austin
Assistant Principal.....	Mr. T-Herbert Jeffrey, Sr
Dean of Students.....	Dr. Samuel Martin
Athletic Director.....	Dr. Matt Brooks
Special School District Secondary Coordinator.....	Dr. Stephanie Berry
Director of Pk-12 College and Career Readiness.....	Ms. Susan Hill
Lead Counselor.....	Ms. Katy Jane Johnson
Counselor .....	Ms. Kimberly Merrill
Counselor.....	Ms. April Money



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