

McCracken County High  
School



2019-2020  
Curriculum Guide

## Welcome to McCracken County High School...

### Home of the Mustangs!

This course directory delivers on the visionary promise made to the students, teachers and residents of McCracken County more than seven years ago. The McCracken County Board of Education has led the challenge in planning this new, outstanding institution-McCracken County High School.

On August 9, 2013, McCracken County High School opened its doors for the first time and a new tradition of excellence began. This curriculum supports college and career readiness, the keystone for every student's high achievement.

Course selections make a difference in each student's future possibilities. Students of McCracken County High School can explore interests, graduate with more than 30 hours of college credit or complete a vocational certification to support a rewarding career. Our principals, counselors and teachers are available to assist students in the development of their high school plan.

Please make yourself familiar with this curriculum guide; course selection is worth your thoughtful, dedicated time.

Using this curriculum guide, students can design their high school experience based on individual interests and goals.

In cooperation with families, teachers and counselors, students are encouraged to explore a variety of college and career pathways throughout their time at McCracken County High School.

Each student will enter McCracken County High School as part of a small learning community. The small community design of five academic houses offers students the many academic, extracurricular and co-curricular opportunities made possible by bringing the three high schools together. Students are assigned to one of the houses, and that house serves as the home base for their entire high school career. Each house has an assistant principal, guidance counselor and a team of teachers to support students.

*"We must remember that intelligence is not enough. Intelligence plus character - that is the goal of true education."*

*- Dr. Martin Luther King Jr.*

## I. Advanced Placement Courses

Advanced Placement (AP) Courses		
MCHS Course	College Course (May Vary)	Credit Hours Available (May Vary)
AP English Language	ENG 101	3
AP English Literature	ENG 161	3
AP Calculus A/B	MAT 175	5
AP Calculus B/C	MAT 176	3
AP Statistics	STA 220	3
AP Computer Science Principles		3
AP Chemistry	CHE 170	6
AP Biology	BIO 112	3-12 depending on exam score
AP Environmental Science	EST 150	4
AP Physics 1	PHY 201/203	8
AP European History	HIS 104/105	6
AP U.S. History	HIS 108/109	6
AP Government and Politics	POL 101	3
AP Human Geography	GEO 172	3
AP World History	HIS 101	3
AP Psychology	PSY 110	3
AP Music Theory	MUS 174	3
AP French Language and Culture	FRE 201 and 202 if Score "4-5"	3 for Score of "3" 6 for Score of "4-5"
AP German Language and Culture	GER 201 and 202 if Score "4-5"	3 for Score of "3" 6 for Score of "4-5"
AP Spanish Language	SPA 201 and 202 if Score "4-5"	3 for Score of "3" 6 for Score of "4-5"
AP Seminar		Credential
AP Research		Credential

Colleges look favorably upon high school transcripts that include Advanced Placement (AP) coursework. AP courses represent college-level content, more rigorous than traditional high school curricula. The College Board approves the syllabi of AP courses. Students should explore the AP policies of the college or university in which they are interested. Please visit the College Board website: <http://www.collegeboard.org/> for more information.

## **II. Dual Credit**

McCracken County High School enters into an agreement with a corresponding university, college, or community college to offer Dual Credit (DC) courses. These courses count as high school credits while simultaneously allowing students the opportunity to earn college credit hours at a reduced cost. Freshman and sophomore students wishing to receive college credit require advanced approval. In addition to the courses offered at MCHS, students are afforded the opportunity to attend local colleges and universities (on and off campus and online) during the school day to earn dual credit. Students enroll in West Kentucky College Academy via WKCTC or Racer Academy via Murray State University and take courses on those campuses or via online for a portion of the school day. Various requirements must be met in order to qualify for this option.

## **III. Project Lead the Way**

McCracken County High School offers Project Lead the Way (PLTW), providing rigorous and comprehensive curricula that address the STEM areas of Science, Technology, Engineering, and Math. PLTW provides curriculum pathways in Engineering and Biomedical Sciences. Four hours of college engineering credit can be awarded upon the completion of the career pathway in engineering at the University of Kentucky and select community colleges throughout Kentucky. At this time, the instruction for Biomedical courses is college level, however the awarding of credits is under review.

## **IV. Career Certifications**

McCracken County High School provides opportunities for students to graduate with industry certifications. These certifications allow students to enter the workforce upon graduation with the qualifications and skills necessary to be successful in a certified career.

## **V. 1:1 Computer Program**

McCracken County High School provides expanded learning opportunities for students with a 1:1 computing program. Each student will be assigned a Chrome Book computer for use throughout the year. This program focuses on instructional technology in the classroom while allowing every student to collaborate and conduct research outside of the class period.

## **VI. Science and Math Academies**

McCracken County High School students may qualify for Gatton Academy of Mathematics and Science at Western Kentucky University (WKU) or Craft Academy for Excellence in Science and Mathematics at Morehead State University (MSU). The academy admits students from Kentucky to live on the campus of WKU or MSU their junior and senior years and be enrolled as a high school student and an undergraduate student. Upon completion of the program, a student will be considered a graduate of McCracken County High School and will have earned two years of college credit through WKU or MSU.

## **VII. Student-Led Small Retail Business**

McCracken County High School provides students with the opportunity to lead small retail businesses. Real-world business opportunities include the school bank, greenhouse, and the culinary cafe catering.

## **VIII. Student Opportunities for Domestic and International Travel**

McCracken County High School recognizes that travel, both domestic and international, enriches the educational experience. Each educational trip is integrated into the course curriculum from which the travel opportunity originates.

## **IX. Fine Arts Opportunities**

McCracken County High School students experience exemplary fine arts programming. Classes are offered in Dance, Drama/Theatre, Art and Music. The school features a performing arts center that seats 780 people. Students have access to a dance studio, state-of-the-art music suites and art classrooms.

## X. Gifted and Talented

McCracken County High School provides a challenging curriculum and multiple service opportunities for students who have been identified as Gifted and Talented. These options serve students identified in the following areas: general intellectual aptitude, specific academic aptitude, creative or divergent thinking, psychosocial or leadership skills, and visual or performing arts. Sample opportunities listed below:

Advanced Placement Courses	Dual Credit Courses	Honors Courses
Governor's Scholars Program	Governor's School for the Arts	National Merit Program
All State Band Program	All State Choir Program	Academic Team
Domestic Travel	International Travel	Early Graduate Program
Industry Certificates	Student Government	Differentiated Instruction
Peer Tutoring	Student/Student Peer Tutoring	Robotics
Various School Clubs	Service Learning Options	Extended Schedule Option
Poetry Out Loud	College Visits	Orchestra

## XI. Special Education

The Special Education Department provides a supportive environment in which students with disabilities can develop academic, social, emotional and daily living skills. The department assists each student in accessing the rich variety of courses, services and extracurricular activities offered at MCHS. The Special Education program supports each student to become a self-aware, self-advocating, self-directed strategic learner.

Eligibility is determined by an Admissions and Release Committee (ARC), which includes the student, parents, and staff. The identification, placement and provision of special education programs and services are governed by both state and federal regulations. Courses are designed to meet individual learner needs and address any exceptional characteristics that interfere with learning. Each eligible student has a written Individual Education Plan (IEP) that specifies goals and short-term objectives and their instructional and related services. Related services to complete the child's individualized program can include speech/language pathology services, occupational therapy, physical therapy, career and technology education, and assistive technology.

## **XII. Athletics and Activities**

McCracken County High School adheres to the rules and regulations of the Kentucky High School Athletic Association (KHSAA), and regulations and policies at the district and school levels.

Students may participate in extracurricular and co-curricular activities including: intramural athletic programs, visual and performing arts, marching and concert band, academic co- curricular activities, student clubs and organizations and KHSAA sanctioned sports.

Athletic facilities at McCracken County High School include a 3500-seat football stadium, 3500-seat arena, 300-seat auxiliary gymnasium, 8-court tennis complex, 1500-seat soccer stadium, 1500-seat baseball and softball fields, comprehensive track and field facilities, cross country course and 24,000 square-foot indoor practice facility.

Performing and visual arts facilities include a 780-seat performing arts hall, band room with four soundproof practice rooms, one ensemble practice room, flexible space for dance and orchestra, vocal music room with risers, 2-D and 3-D visual art rooms and space for one amphitheater to be constructed in the future.

NCAA Division I College Freshman eligibility standards:

Students wishing to participate in NCAA Division I athletics must qualify academically through the NCAA Eligibility Center.

Academic eligibility requirements for students include:

Core Courses - Students must complete 16 core courses and 10 courses completed by the end of their junior year.

4 years of English

3 years of mathematics (Algebra I or higher)

2 years of natural/physical science (with 1 year of lab)

1 year of additional English, mathematics or natural/physical science 2 years of social science

4 years of additional courses (from any area above, foreign language or non-doctrinal religion or philosophy)

For information regarding grade point average and approved coursework, students should visit the NCAA Initial-Eligibility Clearinghouse at [www.ncaa.org](http://www.ncaa.org) and speak with a guidance counselor.

*"I'm a success today because I had a  
friend who believed in me and I didn't  
have the heart to let him down"*  
- Abraham Lincoln

# Student Support

## I. Kentucky Education Excellence Scholarship (KEES Money)

KEES was designed to enable high school students to earn scholarships for postsecondary study. The program contains incentives designed to award continued achievement as students progress through high school.

### Program Description

Effective July 1, 1998, high school students began to earn scholarship dollars (called the “base amount”) for each year in which they attained at least a 2.5 GPA. In addition, a bonus award is available based on the individual student’s ACT score. Upon graduation, the base amount that a student has earned in each eligible year of high school is added to the bonus award to determine a KEES award. Students will generally be eligible to receive their scholarships for a maximum of eight academic terms in an undergraduate program.

The scholarship can be used at any participating accredited public or private institution in Kentucky, including community and technical colleges. For most programs of study, the scholarship must be used within five (5) years of high school graduation. To receive the full amount, students must attend full time. Students attending at least half time, but less than full time, receive a proportionate amount; however, each academic term for which a scholarship is received will count as a full academic term, even if the award is reduced.

To retain the maximum award for the second year, students must have completed their first two academic terms with a cumulative 2.5 GPA. For subsequent award periods, students must maintain a 3.0 cumulative GPA to retain the maximum award.

### Annual Award Amounts

Listed below are the base scholarship amounts for each GPA. Students earn an award for each year they attain a 2.5 GPA or higher. **These amounts are based on the yearly GPA, not the cumulative GPA.**

GPA	Amount	GPA	Amount
2.50	\$125.00	3.30	\$325.00
2.60	150.00	3.40	350.00
2.70	175.00	3.50	375.00
2.75	187.50	3.60	400.00
2.80	200.00	3.70	425.00
2.90	225.00	3.75	437.50
3.00	250.00	3.80	450.00
3.10	275.00	3.90	475.00
3.20	300.00	4.00	500.00
3.25	312.50		

### **ACT Bonus Awards**

Listed below are the base awards students may earn for an ACT score of 15 or higher. The bonus award is added to the base amount. For example, if a student has a 3.20 GPA all four years, that student has earned \$1,200.00. If that student makes a 25 on the ACT, \$393 will be added, for a total of \$1,593.00.

ACT Score	Bonus
15	\$36.00
16	71.00
17	107.00
18	143.00
19	179.00
20	214.00
21	250.00
22	286.00
23	321.00
24	357.00
25	393.00
26	428.00
27	464.00
28 or above	500.00

### **AP Supplement Award Amounts**

If a student has been eligible for free or reduced-price lunch during any year of high school and has earned a qualifying score on an Advanced Placement (AP) exam taken during or after the 2008-2009 academic year, he/she can earn a supplemental award. For example, a KEES eligible student who receives a score of 3 on an AP exam and is eligible for free or reduced-price lunch would earn an additional \$200 for each year of college.

Visit [www.kheaa.com](http://www.kheaa.com) for more information.

## **II. Community Scholarship Program**

The Paducah Rotary Club sponsors a Community Scholarship available to every McCracken County student who attends West Kentucky Community and Technical College. McCracken County Fiscal Court and the City of Paducah donated funds to help support the scholarships while the Rotary Club raised additional funds through private donations. This scholarship pays for two years tuition at West Kentucky Community and Technical College. To qualify for this scholarship, students must register prior to entry to McCracken County High School, maintain a 2.5 grade point average, 95% attendance rate, have no major discipline violations and complete required college orientation activities during the senior year.

### III. Additional Services

On-site Youth Service Center  
 Full-time Nursing Staff  
 School Resource Officers  
 200 security cameras throughout the campus  
 Extended hours  
 Library Media Center Fitness Center Athletic Facilities  
 Early evening bus transportation  
 Enhanced instructional technology in all classrooms  
 On-site Baptist Health Clinic  
 On-site Four Rivers Behavioral Health therapist

## Academics

### Academic Honors

**Valedictorian(s):** Students in the Class of 2020 meeting credit requirements for graduation, completing seven Advanced Placement courses and earning all A's for eight semesters will be declared Valedictorian(s).

Students in the Class of 2021 and beyond meeting credit requirements for graduation, completing seven Advanced Placement and/or dual credit courses and earning all A's in all credit bearing courses will be declared Valedictorian(s).

**Salutatorian(s):** Students in the Class of 2020 meeting credit requirements for graduation, completing seven Advanced Placement courses and earning all A's and one B, will be declared Salutatorian(s).

Students in the Class of 2021 and beyond meeting credit requirements for graduation, completing seven Advanced Placement and/or dual credit courses and earning all A's and one B in all credit bearing courses will be declared Salutatorian(s).

**Honor Graduate(s):** Beginning with the Class of 2016, seniors can attain Honor Graduate status by earning a cumulative GPA of a 3.5 or higher.

Letter Grade	Numeric Range	Weighting for Traditional Courses	Weighting for AP & Dual Credit Courses	College Course GPA Weight	KES Weighting for Traditional Courses	KES Weighting for AP & Dual Credit Courses
A	90-100	4.0	5.0	1.0	4.0	5.0
B	80-89	3.0	4.0	1.0	3.0	4.0
C	70-79	2.0	3.0	1.0	2.0	3.0
D	65-69	1.0	1.0	0	1.0	1.0
F	0-64	0	0	0	0	0

## Early Graduation Program

The Early Graduation statute and regulation are a result of Senate Bill 61 (2013) and are a companion regulation to Senate Bill 97 (2013). To summarize the regulation; beginning in 2014-2015, Early Graduation will be possible for students who intend to move on an accelerated timeline through high school and graduate college ready in three academic years or less. Early Graduation is a deliberate pathway for students that wish to complete high school early, receive a diploma from the district and be eligible for acceptance into a two-or four- year Kentucky SACS accredited, public or non-profit institution without remediation. The regulation provides a financial incentive, known as the Early Graduation Certificate, for the student to support this action. Please see your house counselor for information.

<b>McCracken County High School Graduation Requirements through Class of 2022</b>
<i>* Students have the opportunity to take Advanced Placement courses at any point in their high school career.</i>
<b>4 English Credits:</b> English I or Honors English I English II or Honors English II English III, Honors English III, or AP English Language, or ENG 101 and 102 English IV, Honors English IV, or AP English Literature, or ENG 101 and 102
<b>4 Math Credits:</b> Algebra I or Honors Algebra I Geometry or Honors Geometry Algebra II or Honors Algebra II Math Elective (Students must successfully complete at least one math class each year while enrolled at MCHS)
<b>3 Science Credits:</b> Integrated Science I or Honors Biology Integrated Science II or Chemistry Biology or Intro to Physics or Physics
<b>3 Social Studies Credits:</b> Human Government and Geography (Class of 2020 and Later) or AP Human Geography World Civilization or AP World History U.S. History, AP U.S. History, or HIS 108 & 109
<b>1 Health/PE Credit</b>
<b>1 Fine Arts Credit:</b> 1 credit in music, art, drama, or dance
<b>12 Electives</b> <b>RECOMMENDED: 2 World Language Credits</b> (same language) <b>28 TOTAL</b>
Must complete an Individual Learning Plan (ILP)

## Credits Needed For Grade Placement

Beginning with the class of 2015:

28 credits=MCHS diploma

20 credits=Senior

13 credits=Junior

6 credits=Sophomore

## Participation in Graduation Exercises

1. To participate in graduation exercises, a student must have completed the required number of credits, including all required courses, prior to the graduation ceremony.
2. A student not meeting requirements to participate in the graduation exercises will be entitled to receive a high school diploma upon completion of all necessary requirements for graduation.

## School Day Schedule

The McCracken County High School bell schedule has four 50-minute periods each day both semesters, with two 90-minute blocks each day per semester. This schedule allows students to earn 8 credits per year while ensuring they have no more than 6 courses per day. Based on student interest, additional courses may be offered before school (zero period) or after school (seventh period).

	Semester 1	Semester 2
1	50	
2	50	
3	50	
4	90 + 30 Lunch	90 + 30 Lunch
5	90	90
6	50	

## Individual Learning Plan

Individual learning plan or ILP means a comprehensive framework for advising students in grades six (6) through twelve (12) to engage in coursework and activities that will best prepare them to both realize college and career success and become contributing members of their communities.

## MCPS College and Career Planning

<b>MCHS College and Career Planning</b>
<p><b>9th Grade:</b></p> <ul style="list-style-type: none"> <li>• Update ILP (Individual Learning Plan)</li> <li>• Meet with counselors and assistant principals to discuss the following:               <ul style="list-style-type: none"> <li>• Graduation requirements</li> <li>• Benchmark scores (for ACT)</li> <li>• KEES Money information</li> <li>• Community Scholarship Program</li> <li>• Early Graduation Program</li> <li>• Vocational School option</li> </ul> </li> <li>• Take Advanced Placement Exams in May</li> </ul>
<p><b>10th Grade:</b></p> <ul style="list-style-type: none"> <li>• Take the PSAT (optional for those interested in National Merit and Governor's Scholars Programs)</li> <li>• Update ILP (Individual Learning Plan).</li> <li>• Request college information and visit college websites via the ILP</li> <li>• Meet with counselors and assistant principals to discuss the following:               <ul style="list-style-type: none"> <li>• Graduation requirements</li> <li>• KEES Money information</li> <li>• College visits</li> <li>• Governor's Scholars Program requirements</li> <li>• Kentucky's Governor's School for the Arts requirements</li> <li>• Gatton Academy or Craft Academy application</li> <li>• Commonwealth Middle College application</li> </ul> </li> <li>• Take Kentucky State Assessment in On Demand Writing in the spring</li> <li>• Take Kentucky End of Program assessment (formerly known as KOSSA) in the spring if enrolled in third course of a career pathway</li> <li>• Take Advanced Placement Exams in May</li> <li>• Take ACT exam in June if pursuing Governor's Scholars Program</li> </ul>

**MCHS College and Career Planning****11th Grade:**

- Take ACT in September or October if planning to pursue Governor's Scholars Program
- Take the PSAT (optional for those interested in National Merit and Governor's Scholars Program)
- Update ILP (Individual Learning Plan)
- Meet with counselors and assistant principals to discuss the following:
  - Graduation requirements
  - ACT scores
  - KEES Money information
  - Governor's Scholars Program
  - Kentucky's Governor's School for the Arts requirements
  - Vocational School Options
  - Investigate colleges-determine entrance requirements
- Take Kentucky State Administration of ACT in March
- Take Kentucky State Assessment in On Demand Writing in the spring
- Take Kentucky End of Program assessment (formerly knoww as KOSSA) in the spring if enrolled in third course of a career pathway
- Take Advanced Placement Exams in May
- Visit colleges-summer prior to senior year

**12th Grade:**

- Update ILP (Individual Learning Plan)
- Meet with counselors and assistant principals to discuss the following:
  - Graduation requirements
  - College application process
  - Scholarships
  - Financial Aid
  - Internships
- Take Kentucky End of Program assessment (formerly knoww as KOSSA) in the spring if enrolled in third course of a career pathway
- Take Advanced Placement Exams in May

## MCHS Career Pathways

MCHS Career Pathway guide will help guide students to choose pathways and courses in their desired career areas. It is very important to encourage students to look at their options within a pathway if possible. All of the courses listed under a title are courses offered at MCHS. Successful completion of pathways can mean various things for students including, but not limited to, acquiring career certifications, a better overall understanding of a career, understanding what employers expect for the career cluster, and skills and experiences students needed before applying for a job. Ultimately, the goal is to help students find their way to gainful employment and a successful career.

Current pathways offered by McCracken County High School:

<p><b>ANIMAL SCIENCE</b>  <b>Complete 2</b>            Principles of Ag            Animal Science  <b>Choose 2</b>            Equine Science*            Small Animal Science*            Veterinary Science*  <b>May Substitute 1 from *</b>            Ag Co-op</p>	<p><b>AG POWER</b>  <b>Complete 1</b>            Principles of Ag  <b>Choose 3</b>            Ag Construction Skills*            Small Power Equip*            Ag Power and Machine Operation*            Ag Structure &amp; Designs*  <b>May Substitute 1 from *</b>            Ag Co-op</p>	<p><b>ENVIRONMENTAL SCIENCE</b>  <b>Complete 3</b>            Principles of Ag            Wildlife Resources            Intro to Greenhouse  <b>Choose 1</b>            Greenhouse Tech I            Ag Co-op</p>
<p><b>HORTICULTURE</b>  <b>Complete 2</b>            Principles of Ag            Intro to Greenhouse  <b>Complete 2</b>            Floral Design*            Greenhouse Tech I*  <b>May Substitute 1 from *</b>            Ag Co-op</p>	<p><b>BIOMEDICAL SCIENCE</b>  <b>Complete 4</b>            Principles of Biomed            Human Body Systems            Medical Interventions            Biomed Innovations</p>	<p><b>ELECTRICAL ENGINEERING</b>  <b>Complete 4</b>            Intro to Engineering            Principles of Engineering            Digital Electronics            Engineering Design &amp; Development</p>

**E-COMMERCE****Choose 2 or 3**

Digital Literacy

Principles of Marketing

Multimedia

**Choose 1 or 2**

Entrepreneurship

Business Prin and Apps

Business Co-op

**ACCOUNTING****Complete 2**

Digital Literacy

Accounting &amp; Finance

Foundations

**Choose 2**

Business Prin &amp; Apps

Prin of Marketing

Business Co-op

**ADMIN SUPPORT****Choose 2 or 3**

Digital Literacy

Accounting &amp; Finance

Foundations

Financial Literacy

**Choose 1 or 2**

Business Prin &amp; Apps

Principles of Marketing

Medical Terminology &amp;

Emergency Procedures

**Consumer & Family Management****Complete 4**

FACS Essential

Money Skills

Relationships &amp;

Parenting

Foods &amp; Nutrition

**EARLY CHILDHOOD****Complete 3**

Early Lifespan Dev

Child Dev Services I

Child Dev Services II

**Choose 1**

FACS Essentials

Relationships &amp;

Parenting

Early Childhood Co-op

**CULINARY & FOOD SERVICES****Complete 3**

Foods &amp; Nutrition

Culinary Arts I

Culinary Arts II

**Choose 1**

FACS Essentials

Adv Foods &amp; Nutrition

Culinary Internship

Culinary Co-op

**ALLIED HEALTH****Complete 3**

Prin of Health Science

Emergency Procedures &amp;

Medical Terminology

Allied Health Core Skills

**Choose 1**

Anatomy (Science)

Estst of Sports Med

**PRE-NURSING****Complete 3**

Prin of Health Science

Emergency Procedures &amp;

Medical Terminology

Medicaid Nurse Aide

**Choose 1**

Anatomy (Science)

Nursing Co-op

**DENTAL ASSISTING****Complete 3**

Prin of Health Science

Emergency Procedures &amp;

Medical Terminology

Internship: Dental Assistant

**Choose 1**

Anatomy (Science)

Allied Health Core Skills

**CINEMATOGRAPHY AND  
VIDEO PRODUCTIONS****Choose 4**

Intro to Media Arts

Video Studio Fundamentals

Studio Directing and Performance

Adv Studio Production

Media Arts Co-op **or**

Media Arts Internship

**NETWORK SECURITY****Choose 4**

Digital Literacy

Computer Hardware &amp;

Software Maintenance

Intro to Networking Concepts

Security Fundamentals

IT Co-op or

IT Internship

## Four-Year Individual Learning Planner

Name: \_\_\_\_\_ Grade: \_\_\_\_\_

ILP College and Career Goal: \_\_\_\_\_

**List required courses before choosing electives. Consider your future goals in deciding your electives. Also consider your interest in AP, Dual Credit classes and Career Certification Programs. Please list three alternate courses (Alt.) in addition to your eight course selections.**

### Grade 9

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
- Alt. \_\_\_\_\_
- Alt. \_\_\_\_\_
- Alt. \_\_\_\_\_

### Grade 10

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
- Alt. \_\_\_\_\_
- Alt. \_\_\_\_\_
- Alt. \_\_\_\_\_

### Grade 11

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
- Alt. \_\_\_\_\_
- Alt. \_\_\_\_\_
- Alt. \_\_\_\_\_

### Grade 12

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
- Alt. \_\_\_\_\_
- Alt. \_\_\_\_\_
- Alt. \_\_\_\_\_

## Agriculture

### **Principles of Agriculture**

Course #146

Open to grades 9-10

1 credit

*Prerequisite: None*

This course provides instruction in the foundations of the various segments of the agricultural industry. Agricultural career opportunities will be emphasized. Animal science, plant and land science, and agricultural mechanics skills will be the focus of the curriculum. The selection and planning of a supervised agricultural experience program and related record keeping will be presented. Leadership development will be provided through FFA. Students will receive personal guidance and counseling with preparatory instructional program selection.

\*This course is the beginning course for all agriculture pathways.

### **Agriculture Math–Dual Credit**

Course #110

Open to grade 12

1 credit

*Prerequisite: Principles of Agriculture and one other Agriculture course*

This course will teach students methods of solving many application problems that will be encountered in the field of agriculture using applied mathematical and logic skills. The emphasis will be to use practical mathematical skills already acquired from secondary education to address agricultural situations involving computations that are necessary for upper level courses in agriculture. Some knowledge of agricultural situations may be required. This course is designed to allow the students to connect current basic math skills with common application problems in agriculture.

### **Agriculture Construction Skills**

Course #124

Open to grades 10-11-12

1 credit

*Prerequisite: Principles of Agriculture*

This course prepares students to construct and maintain agricultural structures and equipment. It develops basic skills such as: tool identification, interpreting plans, calculating a bill of materials, electrification, carpentry, welding, metal fabrication, plumbing and masonry. Content may be enhanced with appropriate computer applications. Leadership development will be provided through student membership in the FFA.

**Small Power Equipment**

Course #120

Open to grades 10-11-12

1 credit

*Prerequisite: Principles of Agriculture*

This course is designed to develop skills in maintenance, repair, and operation of equipment, small combustion-type engine and electric motors. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA.

**Agriculture Power and Machine Operation**

Course #147

Open to grades 10-11-12

1 credit

*Prerequisite: Principles of Agriculture and successful completion of Small Power*

*Equipment* This course provides instruction and hands-on experience in basic principles of agricultural machinery assembly, operation, maintenance, service, repair and safety. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Class will be divided between small and large Agriculture equipment maintenance and restoration. Yearly tractor restoration project will be part of this class

**Agriculture Structures and Design**

Course #148

Open to grades 11-12

1 credit

*Prerequisite: Successful completion of Agriculture Construction Skills due to safety instruction and tool certification.*

This course prepares students to evaluate, design and construct agricultural structures. Students learn to design, evaluate and interpret construction plans and calculate a bill of materials. The skills learned in the Agricultural Construction Skills course may be incorporated to construct an agricultural structure.

Agriculture equipment design and repair will be enhanced by advanced welding techniques such as MIG welding and plasma cutting. Content may be enhanced with appropriate computer applications. Leadership development will be provided through student membership in the FFA. Each student will have a supervised agricultural experience program.

**Animal Science**

Course #126

Open to grades 10-11-12

1 credit

*Prerequisite: Principles of Agriculture*

This course develops basic knowledge and skills pertaining to livestock identification, selection, nutrition, reproduction and genetics, health management, and marketing of one or more species of livestock animals. This class typically touches on the principles of cattle, horses, poultry, swine, some small animals and many more. The goal of this course is to allow students to be well versed in the animal industry before choosing a more advanced class to expand their knowledge. Hands on labs, sometimes with live animals, are also included to enhance learning opportunities within animal science.

**Small Animal Science**

Course #128

Open to grades 10-11-12

1 credit

*Prerequisite: Principles of Agriculture and Animal Science*

This course develops scientific knowledge, management practices, and marketing strategies in small and specialty animal technology. The curriculum includes identification, anatomy, physiology, nutrition, health, selection and care of small animals such as dogs, cats, rabbits, companion birds, ostriches, emus, laboratory activities and computer applications. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program.

**Equine Science**

Course #118

Open to grades 10-11-12

1 credit

*Prerequisite: Principles of Agriculture and Animal Science*

This course develops knowledge and skill pertaining to breed identification and selection, anatomy, physiology, nutrition, genetics and reproductive management, training principles, grooming, health disease, parasite control and sanitation practices. Content may be enhanced with appropriate computer applications. Leadership development will be provided through student membership in the FFA. Each student will have a supervised agricultural experience program.

**Veterinary Science**

Course #117

Open to grades 11-12

1 credit

*Prerequisite: Principles of Agriculture and Animal Science*

This course examines basic principles of veterinary science, including breeds,

biology, veterinary tools, parasitology, office management, animal control, and basic clinical examine techniques for large and small animals. Further, the purpose of this course is to provide advanced students in agriculture with an introduction to the basic principles of veterinary science. This requires students to understand the biology of both large and small breeds of animals, as well as specifics related to the area of veterinary medicine. This class will build a foundation for those students interested in the area of veterinary science.

### **Agricultural Education Internship**

Course #149

Open to grade 12

1 credit

*Prerequisite: Must be the fourth course in agriculture pathway*

Internship limited to the site availability. Determination will be made upon teacher approval. This internship will be an unpaid opportunity in your agriculture pathway.

### **Intro to Greenhouse and Crop Production—*Dual Credit* (formerly Plant & Land Science)**

Course #129

Open to grades 10-11-12

1 credit

*Prerequisite: Principles of Agriculture*

This course develops basic scientific knowledge and skills pertaining to management of the land and its effects on food and fiber production, the environment, and the quality of life. The relationship of land to plant growth will be emphasized. Plant composition, reproduction, growth, and current biotechnological advances will be included. Fundamental principles of vegetable production and commercial greenhouse production of vegetable crops may be included.

**This class is taught in conjunction with the Murray State University School of Agriculture**

*\*Not required to take Dual Credit route to receive credit in class at MCHS*

### **Greenhouse Technology I**

Course #113

Open to grades 10-11-12

1 credit

*Prerequisite: Intro to Greenhouse and Crop Production (formerly Plant and Land)*

This course is designed as an introductory horticulture/plant science class with content directed to greenhouse applications. It offers instruction in the following: plant identification, plant structures/uses, plant propagation, production of nursery plants, greenhouse operations/management, landscape planning/installation and leadership development. Significant greenhouse experience will be included in instruction.

**Greenhouse Technology II**

Course #114

Open to grade 12

1 credit

*Prerequisite: Intro to Greenhouse and Crop Production (formerly Plant and Land) and Greenhouse Technology I*

This course is designed to build on the content learned in Greenhouse Technology I. Fundamental principles of vegetable production and commercial production of vegetable crops may be included. Significant greenhouse experience will be included in instruction. Leadership development will be provided through student membership in the FFA.

**Floral Design**

Course #112

Open to grades 11-12

1 credit

*Prerequisite: Principles of Agriculture & Intro to Greenhouse and Crop Production (Plant and Land) and Greenhouse Technology I*

*Course fee: \$20*

Floral design provides instruction to develop floral design techniques using silk, dried, and fresh flowers. Students will learn operation and management techniques of a floral business as well as identification, production and cultural maintenance practices of plans used in floral design, and interior as well as some exterior landscaping. Additionally, hands on experience will be provided via greenhouse work where students will learn to grow plants and maintain them while learning the anatomy and physiology of the plant and its systems.

**Wildlife and Forestry**

Course #144

Open to grades 10-11-12

1 credit

*Prerequisite: Principles of Agriculture*

This course develops an awareness of wildlife industry resources. It includes a study of ecology and ecosystems, wildlife habitat, population dynamics, management techniques that deal with wildlife in all areas and the regulations that affect the wildlife industry. Content may be enhanced with appropriate applied scientific laboratory activities and computer applications. A brief coverage of the general fields of forestry, development and importance, tree growth, principle forest regions, important timber species, forest management practices, utilization and products, state and federal forestry programs will be studied.

**Agricultural Co-op**

Course #122

Open to grade 12

1 credit

*Prerequisite: Must be the fourth course in an Agriculture Career Pathway to qualify for Co-op.*

This course allows students to work and earn credit at the same time. Students must work during the year and receive a positive evaluation from their employer.

Approved agriculture work experience (agricultural business, food service, computer work, and farm labor or mechanics) will qualify the student for this program. They must also pass the associated agriculture class that they are taking to receive their co-op credit.

---

## **Business**

### **Business Principles and Applications**

Course #130

Open to grades 9-10-11-12

1 credit

*Prerequisite: None*

This course provides students with a basic foundation to further study business and marketing classes. The course also provides students with information to become better consumers. Major topics of study include banking, credit, investments, budgeting, principles of insurance and taxes, business organization and consumerism. Information relating to the free enterprise system and its impact on the flow of goods and services into our economy is emphasized in this course.

### **Digital Literacy**

Course #132

Open to grades 9-10-11-12

1 credit

*Prerequisite: None*

This course is designed to provide students with practical applications through hands-on use of word processing, spreadsheets and graphs, database management, desktop publishing, presentation software, desktop management, electronic communications and the Internet.

Students use Microsoft Office, Apple iWork, Apple iLife, and Google online applications.

### **Accounting and Finance Foundations (Accounting I)**

Course #134

Open to grades 10-11-12

1 credit

*Prerequisite: Digital Literacy*

This course focuses on planning, keeping, analyzing, and interpreting financial records. Students learn how to keep records for personal and business use. The course includes: accounting careers and concepts, starting an accounting system, journalizing transactions, posting ledgers, preparing worksheets, preparing financial statements, checking accounts, reconciling a bank statement, preparing payroll and tax reports, and use of automated accounting.

### **Principles of Marketing**

Course #136

Open to grades 9-10-11-12

1 credit

*Prerequisite: Digital Literacy*

This course is designed to develop a thorough understanding of the marketing concepts and theories that apply to business situations. It is based on the business

and marketing principles that includes communication skills, distribution, marketing-information management, pricing, product/service management, promotion, selling, operations, strategic management, human resource management, and the economic impact and considerations involved in business and event marketing industries.

### **Multimedia**

Course #138

Open to grades 10-11-12

1 credit

*Prerequisite: Digital Literacy*

This class offers students a hands-on experience to produce multimedia projects and web pages.

### **Entrepreneurship**

Course #139

Open to grades 11-12

1 credit

*Prerequisite: Digital Literacy*

This course focuses on the different aspects of accounting, finance, marketing, management, as well as, legal and economic considerations are covered. A business strategy will be created, planned, and implemented.

### **Financial Literacy (formerly Personal Finance)**

Course # 143

Open to grades 10-11-12

1 credit

*Prerequisite: none*

This course is designed for students interested in pursuing a career in the financial institution field. It involves operation of a student financial center in cooperation with a sponsoring bank, which provides application of banking and financial procedures and concepts. In addition, this course works in conjunction with the school bank. Students work with CFSB management to learn hands on banking experience

### **Business Education Co-op**

Course #141

Open to grade 12

1 credit

*Prerequisite: Must be the fourth course in a Business Career Pathway to qualify for Co-op.*

This course allows students to leave each day to work and earn credit at the same time. Co-op is designed for business students to practice office skills and knowledge learned in other business classes. This course provides a highly marketable experience for students who wish to work part time while completing other high school courses.

## Family & Consumer Science

### **FACS Essentials (formerly LifeSkills)**

Course #150

Open to grades 9-10

1 credit

*Prerequisite: None*

*Lab Fee: \$25*

This comprehensive course provides an opportunity for acquiring basic FACS Essentials and guides students to explore select specific areas for concentrated study. Emphasis is on family, employability skills, adolescent development, introduction to textiles, interior design, financial management, challenges of parenting, establishing healthy relationships, and creating a foundation for healthy lifestyles and nutrition. Leadership development will be provided through the Family, Career and Community Leaders of America.

### **Parenting**

Course #161

Open to grades 10-11-12

.5 credit

*Prerequisite: None*

This course is designed to aid students in developing parenting and care giving skills that can be applied in a variety of situations. Major topics include becoming an informed parent, understanding prenatal development, caring for the newborn, being an effective parent/caregiver, caring for the sick and elderly and exploring career opportunities in care giving. Leadership development will be provided through Family, Career and Community Leaders of America (FCCLA). **This is a .5 credit course and must be taken with Relationships.**

### **Relationships**

Course #151

Open to grades 10-11-12

.5 credit

*Prerequisite: None*

This course is designed to address the knowledge, skills, attitudes and behaviors individuals need in order to develop positive relationships among family members, peers, community members, colleagues, romantic partners, etc. Topics covered include communication, decision-making skills, conflict resolution, goal setting, friendships, family relationships, dating, marriage, parenting, etc. **This is a .5 credit course and must be taken with Parenting.**

**Early Lifespan Development (formerly Child Development)**

Course #152

Open to grades 10-11-12

1 credit

*Prerequisite and/or Co-requisite: Relationships & Parenting, Child Services I**Lab fee: \$10*

This course is designed to aid students in developing parenting and caregiving skills that can be applied in a variety of situations. Major topics include stages of human growth and development, recognizing effects of heredity and environment on human growth and development, prenatal development, preparing for birth, promoting optimum growth and development in the infancy, toddler, and preschool stages and meeting the needs of exceptional children. Careers in child/human development are explored.

**Child Development Services I**

Course #153

Open to grades 11-12

1 credit

*Prerequisite and/or Co-requisite: Early Lifespan Development and must have own transportation**Lab fee: \$10*

This course allows students to explore early childhood and education careers. Students will work toward the State Day Care Orientation certification.

**Child Development Services II**

Course #159

Open to grade 12

1 credit

*Prerequisite: Child Development Services I and must have own transportation*

This course is a continuation of Child Development Services I. Students are placed in off-site work experience with children in preschools, daycares, and elementary classrooms during this course.

**Foods and Nutrition**

Course #163

Open to grades 10-11-12

1 credit

*Prerequisite: None Lab Fee: \$25*

This course is designed to assist students in making critical decisions about food, which contributes to health and well-being. Laboratory instruction is included as an application process. Practical problems addressed relate to attitudes toward food, nutrition facts, special health concerns and diets, management of food resources, preparation skills, food safety, sanitation and careers in nutrition and food services. Leadership development will be provided through the Family, Career Leaders of America (FCCLA).

**Culinary I**

Course #156

Open to grades 10-11-12

1 credit

*Prerequisite: Foods and**Nutrition Lab Fee: \$25*

This course is designed to provide training in the area of food service. Career decisions and demands on family life are explored as well as skills and concepts related to food service. Laboratory instruction is included. Students will use nutritional information in preparing and serving food, practice culinary skills, prepare a variety of foods, and practice food presentation techniques. ServSafe curriculum is provided and may result in an industry certification. KY Skills Standards Test in Culinary Arts is also included. Leadership development will be provided through the Family, Career Leaders of America (FCCLA).

**Culinary II**

Course #157

Open to grade 11-12

1 credit

*Prerequisite: Foods and Nutrition and Culinary I Lab Fee: \$25*

This course is designed to expand on skills taught in Culinary I and is designed to provide training in the area of food service. Career decisions and demands on family life are explored as well as skills and concepts related to food service. Laboratory instruction is included. Students will use nutritional information in preparing and serving food, practice culinary skills, prepare a variety of gourmet foods, and practice food presentation techniques. KY Skills Standards Test in Culinary Arts is also included.

**Money Skills**

Course #165

Open to grades 10-11-12

1 credit

*Prerequisite: None*

This course is designed to provide students with math concepts needed in developing sound money management skills, which will help to improve the quality of life for individuals and their families. Components of math, decision making and problem solving skills, goal setting and technology will be integral components of the course. Leadership development will be coordinated through Family, Career and Community Leaders of America (FCCLA) student organization.

**Early Childhood Co-op**

Course #000

Open to grades 11-12

1 credit

Cooperative Education for CTE courses provide supervised work site experience related to the student's identified career pathway. A student must be enrolled in an approved capstone course during the same school year that the co-op experience is completed. Students who participate receive a salary for these experiences, in accordance with local, state and federal minimum wage requirements.

## **Technology Education**

**CISCO Networking II**

Course #172

Open to grades 11-12

1 credit

*Prerequisite: CISCO Networking I and a 75% or better on the Cisco Skills I final*

This course describes the architecture, components, and operations of routers and switches in a small network. Helps students learn how to configure a router and a switch for basic functionality. Helps students configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs, and inter- VLAN routing in both IPv4 and IPv6 networks. Completes one of a series of four courses that helps prepare students for the Cisco Certified Network Associates (CCNA) certification exam and the Cisco Certified Entry Networking Technician (CCENT). This is the second course in the Cisco curriculum.

**CISCO Networking III**

Course #173

Open to grades 11-12

1 credit

*Prerequisite: CISCO Networking II and a 75% or better on the Cisco Skills II final*

This course covers the architecture, components, and operations of routers and switches in a larger and more complex network. Helps students learn how to configure routers and switches for advanced functionality. Helps students to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, STP, and VTP in both IPv4 and IPv6 networks. Helps students to develop the knowledge and skills needed to implement DHCP and DNS operations in a network. Completes one of a series of four courses that helps prepare students for the Cisco Certified Network Associates (CCNA) certification exam and the Cisco Certified Entry Networking Technician (CCENT). This is the third course in the Cisco curriculum.

**CISCO Networking IV**

Course #174

Open to grades 11-12

1 credit

*Prerequisite: CISCO Networking III and a 75% or better on the Cisco Skills III final*

This course covers WAN technologies and network services required by converged applications in a complex network. Enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements. Helps students learn how to configure and troubleshoot network devices and resolve common issues with data link protocols. Helps students to develop the knowledge and skills needed to implement IPsec and virtual private network (VPN) operations in a complex network. Completes one of a series of four courses that helps prepare students for the Cisco Certified Network Associates (CCNA) certification exam and the Cisco Certified Entry Networking Technician (CCENT). This is the fourth course in

**Computer Hardware and Software**

Course #175

Open to grades 10-11-12

1 credit

*Prerequisite: None*

This course presents a practical view of computer hardware and client operating systems and covers computer hardware components; troubleshooting, repair, and maintenance, operating system interfaces and management tools, networking components, computer security, and operational procedures.

**Introduction to Networking Concepts**

Course #000

Open to grades 9-10-11-12

1 credit

*Prerequisite: None*

This course introduces technical level concepts of non-vendor specific networking including technologies, media, topologies, devices, management tools, and security. Provides the basics of how to manage, maintain, troubleshoot, install, operate, and configure basic network infrastructure.

**Security Fundamentals**

Course #000

Open to grades 10-11-12

1 credit

*Prerequisite: None*

This course introduces basic computer and network security concepts and methodologies. Covers principles of security; compliance and operational security; threats and vulnerabilities; network security; application, data, and host security; access control and identity management; and cryptography. This course leads to the Security + Certification.

**IT Co-op**

Course #000

Open to grades 11-12

1 credit

*Prerequisite: See description*

Cooperative Education for CTE courses provide supervised work site experience related to the student's identified career pathway. **A student must be enrolled in a valid course in the pathway during the same school year that the co-op experience is completed, unless the student has already met completer status in the pathway.** Students who participate receive a salary for these experiences, in accordance with local, state and federal minimum wage requirements according to the Work Based Learning Guide.

**IT Internship**

Course #000

Open to grades 11-12

1 credit

*Prerequisite: See description*

Internship for CTE courses provide supervised work-site experience for high school students who are enrolled in a capstone course associated with their identified career pathway. Internship experiences consist of a combination of classroom instruction and field experiences. A student receiving pay for an intern experience is one who is participating in an experience that lasts a semester or longer and has an established employee-employer relationship. A non-paid internship affects those students who participate on a short-term basis (semester or less).

## **Communication Arts**

### **English I**

Course #200

Open to grade 9

1 credit

*Prerequisite: None*

This introductory course includes a study of essential grammar, basic argumentative composition, the fundamentals of research, vocabulary building skills, and analysis of various genres of literature. An emphasis will be placed on exposure to a variety of writing styles and improvement of individual skill levels. Many projects and activities will be incorporated for student success.

### **Honors English I**

Course #201

Open to grade 9

1 credit

*Prerequisite: None*

This course includes a study of grammar, argumentative composition, research, vocabulary and analysis of various genres of literature. An emphasis will be placed on determining and improving skill levels of individuals in these areas. Various projects and activities will be incorporated for enrichment.

### **English II**

Course #203

Open to grade 10

1 credit

*Prerequisite: None*

This course is a comprehensive survey that focuses on literature, grammar and writing. Students will study grammar basics, write multi-paragraph essays, and study novels, short stories, plays, and essays. Students completing English II will be required to take an End of Course Exam, which will account for 20% of their final grade. The EOC will assess students' abilities to analyze literature, analyze argument, and synthesize information to build arguments.

### **Honors English II**

Course #204

Open to grade 10

1 credit

*Prerequisite: None*

This course encompasses all English II, plus the student will be expected to complete additional projects to enhance his or her appreciation of writing and literature. Students completing Honors English II will be required to take an End of Course

Exam that will account for 20% of their final grade. The EOC will assess students' abilities to analyze literature, analyze argument, and synthesize information to build arguments.

### **English III**

Course #205

Open to grade 11

1 credit

*Prerequisite: None*

This course includes instruction in composition, research techniques, and exploration of literary genres, culture heritage, and literature appreciation, which focuses on American literature.

### **Honors English III**

Course #605

Open to grade 11

1 credit

*Prerequisite: None*

This course includes instruction in grammar, composition, research techniques, and exploration of literary genres with a focus on American literature. Various projects and activities will be incorporated for enhancement. This course moves at a faster pace than English III and is designed for those who do not desire the rigor of the AP/college-level course.

### **AP English Language and Composition**

Course #206

Open to grade 11-12

1 credit

*Prerequisite: None*

*\*This course satisfies the English III or English IV requirement*

This course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout this course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of texts, from many disciplines and historical periods. Students enrolled in this course are expected to sit for the Advanced Placement English Language and Composition examination.

### **English IV**

Course #207

Open to grade 12

1 credit

*Prerequisite: None*

This course includes instruction in grammar, language, composition, research

techniques, and exploration of literary genres. Various projects and activities will be incorporated for enhancement. This course is designed for those who plan to attend college or transition into the workforce.

### **Honors English IV**

Course #705

Open to grade 12

1 credit

*Prerequisite: None*

This course includes instruction in grammar, language, composition, research techniques, and exploration of literary genres. Various projects and activities will be incorporated for enhancement. This course moves at a fast pace and is designed for those who plan to attend college.

### **AP English Literature and Composition**

Course #208

Open to grade 12 1 credit

*Prerequisite: English III, Honors English III, or AP English Language & Composition*

***\*This course satisfies the English IV requirement***

As stated in the Course Exam and Description for the course, AP Literature and Composition engages students in the careful reading and critical analysis of works from various genres and periods. Through close reading, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readings. Students will consider a work's structure, style and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism and tone. Writing assignments focus on the critical analysis of literature and include expository, analytical, and argumentative essays. The purchase of supplementary materials may be required. Students enrolled in this course are expected to sit for the Advanced Placement English Literature and Composition examination.

### **Writing I-Dual Credit**

Course #ENG101DC

Open to grades 11-12

1 credit

*Prerequisites: Must meet ACT benchmarks & must be taken with ENG 102*

***\*This course satisfies the English III or English IV requirement***

This course focuses on academic writing. Provides instruction in drafting and revising essays that express ideas in Standard English, including reading critically, thinking logically, responding to texts, addressing specific audiences, researching and documenting sources. Includes review of grammar, mechanics and usage. English 101 and 102 may not be taken concurrently.

**Writing II-Dual Credit**

Course #ENG102DC

Open to grades 11-12

1 credit

*Prerequisites: Must meet ACT benchmarks & must be taken with ENG 101****\*This course satisfies the English III or English IV requirement***

This course emphasizes argumentative writing. Provides further instruction in drafting and systematically revising essays that express ideas in Standard English. Includes continued instruction and practice in reading critically, thinking logically, responding to texts, addressing specific audiences, and researching and documenting credible academic sources.

**AP Seminar**

Course #227

Open to grade 10

1 credit

*Prerequisite: Must be enrolled in Honors English II*

This foundational course provides students with opportunities to think critically and creatively, research, explore, pose solutions, develop arguments, collaborate, and communicate using various media. Students explore real-world issues through cross curricular lenses and consider multiple points of view to develop deep understanding of complex issues to connect these issues to their own lives. Topics are drawn from a list that includes the following: Discovery, Diversity, Education, Immigration, Liberty, Myth, Networks, Power, Revolution, and Sustainability.

Students in Seminar are assessed through a team project and presentation, an individual written essay and presentation, and a written exam and are expected to submit their work to be scored.

**AP Research**

Course #228

Open to grades 11-12

1 credit

*Prerequisite: AP Seminar*

This course culminates in a 4,500- to 5,000-word academic paper, which enables students to develop practical skills in research methodology and the skills to manage a sustained piece of academic work. Students are evaluated on their ability to design, plan and manage a research project, collect and analyze information, evaluate and make reasoned judgments, and communicate their findings and conclusions. Students earning passing scores in the seminar and research project as well as scores of 3 or higher on a minimum of three AP Exams will receive the **AP Capstone Credential**, demonstrating their proficiency in college-level subject knowledge as well as their research, communication and collaborative skills.

**Basic Public Speaking**

Course #211

Open to grades 10-11-12

1 credit

*Prerequisite: English I*

This course provides experience and training in public speaking so that students are equipped with the skills essential for success in the business and academic worlds of today and tomorrow. Students learn to tailor a message to suit a particular audience, enhance the message through technology, understand logic and reasoning, develop listening skills, identify propaganda techniques, and understand the physical producers of voice to control and vary tone, volume, pitch and rate. Students participate in workshop-oriented groups to develop the various skills listed above. Students complete a short instructional unit at the beginning of the semester and spend the rest of the semester giving speeches. Students are responsible for constructive feedback of their peers' speeches, as well as self-evaluation.

**Debate**

Course #212

Open to grades 10-11-12 1 credit

*Prerequisite: English I*

This course provides students the opportunity to develop skills in the art of debate. Students will learn effective delivery techniques, language to avoid, and how to effectively use your voice. Other units will focus on listening, negotiation, and group problem solving. Students will gain experience in: extemporaneous speaking, impromptu speaking, informal debate, and public forum debate.

**Introduction to Creative Writing and Poetry**

Course #223

Open to grades 9-10-11-12

1 credit

*Prerequisite: None*

This course will examine various styles, techniques, and genres of prose and poetry. Students will be required to read a variety of material from authors and poets and write their own original works. Students will share, discuss, and analyze their writings, in addition to writings of their peers and others.

**Creative Writing**

Course #213

Open to grades 10-11-12

1 credit

*Prerequisite: Introduction to Creative Writing*

Writing is a therapeutic form of expression, providing individuals an outlet for their emotions and creativity. Students will have the autonomy to write about diverse topics that personally resonate with them, using a variety of styles and techniques, as well as genres of prose and poetry. Students will share, discuss, and analyze their writings, in addition to writings of their peers and others.

**The Bible and Its Influence**

Course #225

Open to grades 10-11-12

1 credit

*Prerequisite: English I*

This course is an academic study of the Bible and its monumental influence on literature, history, music, visual arts, and the modern world. The course introduces students to the Bible through selected narratives, characters, discourses, proverbs, and poetry from the Hebrew Scriptures and through a literary overview of the New Testament. It also demonstrates how the Bible inspired and influenced the world through all time. The class is also designed to explore the continuing influence of the Bible on popular culture today.

**Journalism: Introduction to Journalism**

Course #912

Open to grades 9-10-11

1 credit

*Prerequisite: None*

This course will focus on an overview of what news is, how to generate story ideas, and the basics of print journalism. Students will be responsible for a small publication, and will also have the opportunity to hand in articles for print in the school newspaper or yearbook. This course will be focused mainly on writing and editing news articles, features, etc. It will also introduce ethics, layout, and photography. Outside class assignments are required.

**Journalism: Newspaper Production**

Course #215

Open to grades 10-11-12

1 credit

*Prerequisite: Students who have taken Introduction to Journalism will be considered first. Teacher approval by application is required.*

This course includes the writing of editorials, features, news, and sports articles for the publication of a school newspaper. Leadership opportunities are available. Selling advertising space is required and part of the grade for the class. Outside work may be required. This course may be repeated.

**Journalism: Yearbook Production**

Course #216

Open to grades 10-11-12

1 credit

*Prerequisite: Students who have taken Introduction to Journalism will be considered first. Teacher approval by application is required.*

This course introduces the unique characteristics of journalistic expression. Unlike any other class, staff members are responsible for a published product of 300 color

pages, and have the privilege of seeing the product through from beginning to end. Skills include writing, editing, and proofreading articles for use in mass media, selling yearbooks, selling ads in the community, interviewing, photography, creating and designing pages and double page spreads for publication, and more. Outside class assignments are required. Meeting strict deadlines is necessary, or student may not pass.

## **Media Arts**

### **Video Studio Fundamentals (formerly Video Editing)**

Course #217

Open to grades 9-10-11

1 credit

*Prerequisites: None, Seniors needing this class to complete the Media Arts pathway will be granted access by the teacher.*

This course exposes students to the materials, processes, and artistic techniques involved in creating video productions. Students learn to edit video projects using Adobe Premiere Pro. As students advance they are encouraged to develop their own artistic styles. Students who succeed can earn an industry certification in Adobe Premiere Pro.

### **Studio Directing and Performance**

Course #218

Open to grades 10-11-12

1 credit

*Prerequisites: Introduction to Media Arts and/or Video Fundamentals*

This course explores the various roles in running a television station inside McCracken County High School as students produce Mustang TV, our weekly news source for the school. Students develop knowledge and skills in studio multi-camera and field television production. Students also develop performance skills for broadcasting including interpretation of copy, news casting, and ad lib announcing. The course covers techniques of narrative and non-fiction writing and scripting, and the analysis and writing of television scripts.

### **Introduction to Media Arts**

Course #910

Open to grades 9-10-11

1 credit

*Prerequisite: None*

This course is an introduction to and survey of the creative and conceptual aspects of designing media arts experiences and products, including techniques, genres and styles from various and combined media and forms, including moving image, sound, interactive, spatial and/or interactive design.

**Advanced Studio Production**

Course #229

Open to grades 11-12

1 credit

*Prerequisites: Introduction to Media Arts, Video Fundamentals, and Studio Directing OR teacher approval with two of the three listed courses.*

In this course students will explore the creative and conceptual aspects of designing and producing moving images for the variety of cinematic, film/video and multimedia presentations and/or installations, interactive, immersive and performance media.

**Digital Imaging**

Course #000

Open to grades 9-10-11-12

1 credit

*Prerequisite: Per ATC Principal: No first year seniors in the Media Arts Program who will not become career ready.*

This course is a study in photography and photoshop. Students will learn about the production of creative and conceptual aspects of designing and producing digital imaging and photography. Students will use Adobe Photoshop to solve visual communications and problems in designing authentic products.

## Art

### **Art I**

Course #300

Open to grades 9-10-11-12

1 credit

*Prerequisite: None*

*Lab Fee: \$25*

This course is a buffet of art techniques. Emphasis will be on preparing students for upper level art classes and developing drawing skills. Students learn the principles and elements of art...drawing, painting, printmaking, clay, and more.

### **Art II**

Course #301

Open to grades 10-11-12

1 credit

*Prerequisite: Art I*

*Lab Fee: \$25*

This course teaches students applications of design elements learned in Art I. Students will focus on media driven assignments as they expand their technique knowledge and continue to develop manipulative skills. 2-D and 3-D media will be included in this course as well as focus on making bigger and better art projects. This class is a great next step for students who enjoy making art but aren't sure what they want to pursue next.

### **Drawing and Painting**

Course #302

Open to grades 10-11-12

1 credit

*Prerequisite: Art I*

*This class may be repeated. Lab Fee:*

*\$25*

This is a college level drawing course designed to teach any student at any level how to draw. Follows curriculum set by WKCTC Paducah School of Art. Students will learn graphite, charcoal, colored pencil, watercolor, and acrylic.

**Advanced Drawing and Painting**

Course #343

Open to grades 11-12

1 credit

*Prerequisite: Art I and Drawing and**Painting Lab Fee: \$25*

This course includes an advanced exploration of drawing and painting techniques. Book illustration, printmaking, acrylic mediums, and mixed media are all included in this advanced exploration of 2-D techniques.

**Sculpture and Ceramics**

Course #303

Open to grades 10-11-12

1 credit

*Prerequisite: Art I**Lab Fee: \$25*

This course teaches concepts, techniques, and media of 3-D art production. Students will learn hand-building techniques in clay, carving, assemblage, and more.

**Advanced Sculpture and Ceramics**

Course #344

Open to grades 11-12

1 credit

*Prerequisite: Art I and Sculpture and Ceramics**Lab Fee: \$25*

Development of techniques and manipulative skills will be continued in this course. Creative expression through use of 3-D media and clay is the focus of this course.

**Jewelry and Metalsmithing**

Course #304

Open to grades 10-11-12

1 credit

*Prerequisite: Art I**This course may be repeated.**Lab Fee: \$25*

This course is rigorous and fast paced and focuses on students learning all about how to work with metal on a small wearable scale. Jewelry projects include keychain, necklace pendant, chain, stone setting, and ring or belt buckle. Students should have strong design skills and use of principles and elements. Tools and fire will be used.

### **Advanced Jewelry and Metalsmithing**

Course #345

Open to grades 11-12

1 credit

*Prerequisite: Art I and Jewelry and Metalsmithing with teacher recommendation*

*Lab Fee: \$25*

Advanced work in metal techniques. Advanced soldering, stone setting, and some casting. Projects may include hollow form rings, brooches, lockets, and belt buckles.

### **AP Studio Art**

Course #305

Open to grades 11-12

1 credit

*Prerequisite: Art I and at least one advanced art class and teacher approval* *Lab Fee: \$25*

This course is an extremely rigorous art class designed for students seeking admission to an arts college. Students must be capable of college level work and be dedicated to at least 6 hours a week outside of school. **This course requires the completion of a portfolio for review by the AP College Board for the review. A grade of 3 or higher may result in college credit.**

### **Art Independent Study**

Course #306

Open to grades 11-12

1 credit

*Prerequisite: Drawing and Painting, Sculpture and Ceramics or Jewelry and Metalsmithing, and teacher approval.*

*Lab Fee: \$25*

This course provides in-depth studio art to highly motivated students with recognized exemplary talent in an art area. After completing several open-ended assignments students will work with the instructor to create a contract of planned projects. Students will serve as a peer mentor to beginning students of that class. Student must be enrolled the beginning level art class corresponding to their Independent Study interest.

## Dance

### **Dance I**

Course #310

Open to grades 9-10-11-12

1 credit

*Prerequisite: None*

This course introduces students to contemporary dance techniques, dance vocabulary, choreographic concepts, and dance anatomy. Genre studied will be ballet, hip-hop, jazz and contemporary. Students will work independently and in groups, engaging in self, peer and teacher assessments. Students are required to perform in the winter or spring dance showcase.

### **Dance II**

Course #346

Open to grades 10-11-12

1 credit

*Prerequisite: Dance I*

This course is a continuation of Dance I refining contemporary dance techniques, dance vocabulary, choreographic concepts, and dance anatomy. Students will perform in the winter and spring dance showcase.

### **Dance III**

Course#000

Open to grades 11-12

1 credit

*Prerequisite: Dance I and Dance II*

This course is an advanced dance class designed for students with a high level of performing skill and dance knowledge. Students will take a more mature and disciplined attitude toward their craft, both adding to their abilities and overall technical background. Dance history will extend from Dance II, and students will explore and study several styles of dance. Students will extend their choreographic knowledge and will be expected to compose/perform their own pieces. Performances at showcases will be expected.

### **Advanced Dance**

Course #347

Open to grades 9-10-11-12

1 credit

*Prerequisite: Teacher approval*

*This course may be repeated.*

This course is an advanced dance class designed for students with a high level of

skill and technical knowledge. Students take a more mature and disciplined attitude toward their dance. This is a faster moving class with emphasis on progressing towards performances.

## Music

### **Women's Crimson Chorale**

Course #335

Open to grades 9-10-11-12

1 credit

*Prerequisites: None*

*This course can be repeated.*

This ensemble is a non-auditioned female chorus. Beginning musicians must enroll in this introductory chorus that will cover notation, build sight-reading skills and introductory vocal techniques. Members will participate in quarterly concerts.

### **Varsity Singers**

Course #322

Open to grades 10-11-12

1 credit

*Prerequisite: Women's Crimson Chorale, Mustang Men, and permission from the instructor.*

*This class may be repeated.*

This advanced and select ensemble will have auditions each January and as needed. This group will prepare quarterly concerts and sing for special. Potential all-state singers will be selected from this group.

### **Voice Studio Ensemble**

Course #336

Open to grades 10-11-12

1 credit

*Prerequisite: Mustang Men or Women's Crimson Chorale or permission from instructor This course can be repeated*

This chamber group will perform on Fine Arts Fridays, quarterly concerts and special events. It will focus on vocal technique, solo literature, and small ensemble performances.

### **Mustang Men's Chorus**

Course #321

Open to grades 9-10-11-12

1 credit

*Prerequisite: None*

*This course can be repeated.*

This men's chorus will include all incoming 9<sup>th</sup> grade male singers and serve as an

additional offering for other bass/tenor voices. Singers will perform in quarterly concerts and other school events.

### **Concert Choir**

Course #354

Open to grades 10-11-12

1 credit

*Prerequisite: Mustang Men Chorus or Women's Crimson Chorale This course can be repeated*

This course will prepare quarterly concerts and will sing for special events.

### **AP Music Theory**

Course #324

Open to grades 12

1 credit

*Prerequisite: One year in performance ensemble*

This course is designed to prepare students in the areas of music theory, analysis, and ear training. This will be achieved by developing each student's ability to recognize, understand, and describe the basic processes of music that are heard or presented in a score.

**Students enrolled in this course are expected to sit for the Advanced Placement Music Theory examination.**

### **Piano**

Course #349

Open to grades 9-10-11-12

1 credit

*Prerequisite: None*

*This course may be repeated.*

This course is a self-paced class designed for students of various levels of piano ability. Students will learn basic piano skills and techniques throughout the course of their studies. Seniors who intend to major in music are encouraged to sign up for this course, regardless of current level of piano ability.

### **Advanced Piano**

Course #355

Open to grades 9-10-11-12

1 credit

*Prerequisite: None*

*This course may be repeated.*

This course is a self-paced class designed for students of accelerated levels of piano ability. Students will learn advanced piano skills and techniques throughout the course of their studies.

**Introduction to Music-Dual Credit**

Course #326

Open to grades 11-12

1 credit

*Prerequisite: None*

This course is a simultaneous study of the history and literature of music in the Western World through discussion, performance, analysis, and recording. Students will study music from antiquity through the Classical period, Romantic period and today.

**Beginning Guitar**

Course #327

Open to grades 9-10-11-12

1 credit

*Prerequisite: None*

This course teaches the basics of playing guitar. Students will learn about the history of the instrument, different types of guitars, and players they should listen to for inspiration. During the course students will learn the basic guitar technique through playing scales and chords. This will be provided through folk songs. Students will understand acoustics of the instruments and be able to perform numerous songs by the end of the year.

**Advanced Guitar**

Course #328

Open to grades 10-11-12

1 credit

*Prerequisite: Beginning Guitar or teacher approval*

This course is designed to provide advance techniques of guitar playing, including advanced scales, modern color techniques, electric guitar techniques, and other fretted string instruments.

**Orchestra**

Course #329

Open to grades 9-10-11-12

1 credit

*Prerequisite: Audition*

This course is designed to provide the student with an experience in the performance of advanced orchestral literature of various periods and styles, development of advanced orchestral techniques, and fundamentals of music theory. Students electing this course are to understand that it requires participation in out-of-school rehearsals and performances in order to reach satisfactory completion.

**Wind Ensemble**

Course #330

Open to grades 9-10-11-12

1 credit

*Prerequisite: Audition*

This course offers the top wind and percussion players opportunities to develop musicianship and skills necessary for success in college level ensembles. This is the premier ensemble of the McCracken County High School Band program, performing grade 5 and grade 6 literature. This ensemble class will include concerts, assessments, and preparations for honors band and all-state band tryouts.

**Symphonic Band**

Course #331

Open to grades 9-10-11-12

1 credit

*Prerequisite: None*

This course offers wind and percussion players opportunities to develop musicianship and technical performance skills. This ensemble provides preparation for further excellence, performing grade 3 and grade 4 literature. Class will include concerts, assessments and preparations for honors band and all-state band tryouts.

**Jazz Theory and Improvisation**

Course #334

Open to grades 9-10-11-12

.5 credit

*Prerequisite: Instructor Approval***\*\* This ensemble meets Monday, Wednesday, and Friday at 7am\*\***

This course will survey the basic building block of American's only original art form: JAZZ! The students will learn about standard chord progressions and voicing, jazz standards, the history of jazz music, and various jazz artists and styles. The other important aspect and goal of the course will be to learn differing methods, types, styles and forms of improvisation. The students will play their instruments, listen to music by many jazz artists in varying styles and eras and improvise, learning through transcribing solos, analyzing chords and progressions, and playing together with play-along recordings and live rhythm sections. The student should be relatively accomplished at their instrument to participate in this ensemble.

**Percussion Ensemble**

Course #351

Open to grades 9-10-11-12

1 credit

*Prerequisite: Audition*

This course is designed to help percussion students further their musical skills outside of regular band class. Students will rehearse and perform with others.

They will be taught music reading skills, musicality, music terminology, music history, and music theory. We will work on music to be performed with the bands, as well as music to be performed on their own as a percussion ensemble.

## **Drama/Theatre Department**

### **Drama I**

Course #340

Open to grades 9-10-11-12

1 credit

*Prerequisite: None*

This course emphasizes basic acting techniques of the theatre including theatre games, improvisation, character development and the fundamentals of preparing a scene. Students will be introduced to theatre terms, learned stage directions, and study popular theatrical work. Emphasis will also be placed on how to audition, monologues and partner scenes. Students will utilize peer evaluations, using cues and cue pick-ups.

### **Drama II**

Course #341

Open to grades 10-11-12

1 credit

*Prerequisite: Drama I*

This course is a continuation of Drama I and emphasizes acting techniques of the theatre including warm-up exercises, theatre games, improvisation, character development and the fundamentals of preparing a scene. Students will be introduced to theatre history, as well as children's theatre. Students will

continue to learn theatre terms and stage directions. Students will work independently and in groups engaging self, peer and teacher assessments. Emphasis will also be placed on how to audition, monologues and partner scenes. Students will analyze theatrical works and will be required to participate in both winter and spring showcases.

### **Drama III**

Course #350

Open to grades 11-12

1 credit

*Prerequisite: Drama I, Drama II, and an Audition/Application This course may be repeated*

This course is an advanced theatre class designed for students with a high level of performing skill and theatre knowledge. Students will take a more mature and disciplined attitude toward their craft, both adding to their abilities and overall technical background. Theatre history will extend from Drama II, and students will

explore and study several pieces of literature. Students will extend their technical theatre knowledge and move into different aspects of play production. Performances at a showcase or class play equivalent will be expected. This class is audition only.

**Musical Theatre**

Course #323

Open to grades 10-11-12

1 credit

*Prerequisite: One year of a vocal ensemble OR Drama I*

*This course may be repeated*

This course emphasizes performing techniques in an ensemble setting, focusing on several aspects of musical theatre. Students will be exposed to the rich history of musical theatre, research composers and performers, and will study many different theatrical works. This course will include an introduction to basic production elements of a full scale musical by assisting the department with their spring musical production.

## Mathematics

### **Integrated Math**

Course #401

Open to grade 9

1 credit

*Prerequisite: Must be taken concurrently with Algebra I*

This course is designed to emphasize the development of skills, techniques and applications that deal with algebra, number relations, linear equations, formulas, polynomials, graphing, systems of equations, factoring, quadratic and exponential equations. Completion of this course prepares a student for further work in mathematics, usually in Geometry. **Student placement into this course may be based on assessment scores from a variety of sources.**

### **Algebra I**

Course #400

Open to grade 9

1 credit

*Prerequisite: None, must be taken along with Integrated Math*

This course is designed to emphasize the development of skills, techniques and applications that deal with algebra, number relations, linear equations, formulas, polynomials, graphing, systems of equations, factoring, quadratic and exponential equations. Completion of this course prepares a student for further work I mathematics, usually Geometry. Student placement into this course may be based on assessment scores form a variety of sources.

### **Honors Algebra I**

Course #402

Open to grade 9

1 credit

*Prerequisite: None*

This course is enriched Algebra I. Algebra I concepts are introduced and it is recommended that students planning on taking all high-level math classes offered take this course. Topics include solving linear equations and inequalities, absolute value equations, operations with polynomials, graphing linear equations, factoring, systems of equations, radical expressions and equations, laws of exponents and quadratic equations.

### **Geometry**

Course #403

Open to grade 10

1 credit

*Prerequisite: Algebra I*

This course is designed to give an understanding of and appreciation for geometric concepts found in everyday life. Content includes points, lines,

planes, angles, triangles, similarity and congruence, circles, coordinate geometry, area, and volume.

### **Honors Geometry**

Course #404

Open to grades 9-10

1 credit

*Prerequisite: Algebra I*

This course focuses on the discovery and realistic applications of geometric applications and principles in greater depth and at a faster pace than Geometry. If time permits, this course may include more concepts and skills than the regular class. Topics include: slope, indirect measurements, parallelism, perpendicularity, inductive reasoning, points, lines, planes, angles, triangles, plane figures, similarity and congruence, circles, three dimensional geometry, area, volume, coordinate geometry, symmetry, transformations, tessellations, the Pythagorean Theorem, and trigonometry.

### **Algebra II**

Course #405

Open to grades 10-11

1 credit

*Prerequisite: Algebra I*

This course extends topics learned in Algebra I and introduces new topics. Students solve, graph, and write equations/inequalities of lines, absolute value, quadratics, polynomials, exponential, and logarithmic functions and use them to model a variety of situations. In addition, students will study functions and function notation, roots, complex numbers, radicals, probability, and sequences/series.

### **Honors Algebra II**

Course #406

Open to grades 9-10-11

1 credit

*Prerequisite: Algebra I*

This course may include more concepts and skills than the regular class as well as exploring concepts at a deeper level. Topics include solving, graphing, and writing equations/inequalities of lines, piece-wise functions, absolute value, quadratics, polynomials, exponential, and logarithmic functions and using them to model a variety of situations. In addition, students will study functions and function notation, roots, complex numbers, radicals, probability, sequences/series, rational functions, and conic sections.

**Algebra III**

Course #407

Open to grades 11-12

1 credit

*Prerequisites: Algebra I, Algebra II, and Geometry, ACT Math sub score of 18-21*

This course is designed for students who may not be required to take a specialized calculus course in college. Topics may include, but are not limited to relations and functions, complex numbers, exponential and logarithmic equations, sequences and series, and probability.

**College Algebra-Dual Credit**

Course #MAT150

Open to grades 11-12

1 credit

*Prerequisite: Algebra I, Algebra II, Geometry, ACT Benchmark of 22*

This is a college level course, which satisfies the math requirement for some bachelor degrees, and builds a foundation necessary for success in college level Trigonometry and Calculus. Topics include (but not limited to) functions, polynomials, exponential and logarithmic equations, and linear and nonlinear systems.

**College Preparatory Math**

Course #408

Open to grades 11-12

1 credit

*Prerequisite: Algebra I, Algebra II, Geometry, ACT Benchmark 17 and below*

This course is designed to help students with algebraic skills and prepare them for success in college math courses. Particular emphasis is placed on preparing a student to be successful in college algebra.

**Pre-Calculus**

Course #409

Open to grades 10-11-12

1 credit

*Prerequisite: Algebra I, Algebra II, Geometry*

This course provides an in depth study of trigonometry. Topics include trigonometric functions and their graphs, the unit circle, triangles, trigonometric identities, solving trigonometric equations, the law of sines and cosines, sequences and series, conic sections, and exponential and logarithmic functions. This course is necessary for AP Calculus AB or AP Calculus BC.

**AP Calculus AB**

Course #410

Open to grades 11-12

1 credit

*Prerequisite: Pre-Calculus with a grade of A or B*

This course follows the curriculum established by the College Board. Topics include properties of functions, limits, derivatives, applications of derivatives, anti-derivatives, techniques of integration, the definite integral and applications of the integral. **Students enrolled in this course are encouraged to sit for the Advanced Placement Calculus AB examination.**

**AP Calculus BC**

Course #412

Open to grades 11-12

2 credits (2 semesters on the block)

*Prerequisite: Pre-Calculus with a grade A and an interest in the field of mathematics*

AP Calculus BC is an extension of AP Calculus AB that follows the curriculum established by the College Board. A student should choose to take either AB or BC. A qualifying score on the BC exam gives more college credit, but is much more rigorous than AB. All topics from AB will be taught plus parametric, polar, and vector functions and analysis of planar curves, Euler's method, L'Hospital's Rule, improper integrals, applications of integrals, integration by parts, and logistic equations for modeling. Polynomial approximations and series will also be covered. **Students in this course are encouraged to sit for the Advanced Placement Calculus BC examination.**

**AP Statistics**

Course #411

Open to grades 10-11-12

1 credit

*Prerequisite: Honors Algebra II with a grade of B or higher*

This course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: 1) Exploring Data: Describing patterns and departures from patterns. 2) Sampling and Experimentation: Planning and conducting a study. 3) Anticipating Patterns: Exploring random phenomena using probability and simulation. 4) Statistical Inference: Estimating population parameters and testing hypotheses. **Students enrolled in this course are encouraged to sit for the Advanced Placement Statistics examination.**

**AP Computer Science Principles**

Course #181

Open to grades 10-11-12

1 credit

*Prerequisite: Honors Algebra II with a grade of B or higher*

AP Computer Science Principles introduces students to the foundations of computer science with a focus on how computing powers the world. Along with the fundamentals of computing, students will learn to analyze data, create technology that has a practical impact, and gain a broader understanding of how computer science impacts people and society. Topics also include cyber security, programming, and understanding the Internet. **Students in this course are encouraged to sit for the Advanced Placement Computer Science Principles exam.**

**Math Resource Class**

Open to grades 9-10-11-12

1 credit

*Prerequisite: Individual Education Plan*

This course is designed for eligible students who require instruction in a smaller, more structured learning environment to master the curricular content of Algebra I, Algebra II or Geometry. Content mastery expectations and tests are similar to the regular class. The text is the same book that is currently used in the specific regular math course. The course is individually structured to improve each student's addition, subtraction, multiplication, and division skills. There is an emphasis on algebraic equations, reading graphs and calculator functions as well as problem solving. The course goal is to prepare each student to be successful in the regular math classroom. The students are enrolled based on a decision at an ARC meeting, either at the start of the year or transferred from a regular math class during the semester based on academic, emotional and/or behavioral needs. Transfers during the semester are placement changes, not level changes. When students meet exit criteria indicating they are able to handle the change in learning environment with success, they will be transferred to a regular Math Collaboration Class.

## Physical Education

### **Health**

Course #500

Open to grades 9-10-11-12

.5 credit

*Prerequisite: None*

This course will allow students to analyze, describe, and explain concepts related to health promotion and disease prevention. Emphasis is placed on developing health enhancing behaviors. **This is a .5 credit course and must be taken with PE I.**

### **PE (Physical Education)**

Course #501

Open to grades 9-10-11-12

.5 credit

*Prerequisite: None*

This course will allow students to be introduced to various individual and team sports (volleyball, badminton, and floor hockey). Instructions in physical fitness, conditioning, and the basic principles of weight control are also taught. **This is a .5 credit course and must be taken with Health.**

### **Introduction to Fitness**

Course #502

Open to grades 10-11-12

1 credit

*Prerequisite: Health and Physical Education*

This course will allow students to develop a personal physical fitness plan. This plan will include aspects of strength training, cardiovascular training, and stretching. Students will be taught principles of a healthy lifestyle that also include nutrition and wellness.

### **Strength and Conditioning**

Course #503

Open to grades 10-11-12

1 credit

*Prerequisite: Health and Physical Education*

*This course can be repeated*

This course will allow the student an opportunity to utilize and learn the basic principles of free weights, exercise machines, and speed and agility. Proper weightlifting techniques and safety precautions will be emphasized in this course.

**Men's Advanced Strength and Conditioning**

Course #504

Open to grades 9-10-11-12

1 credit

*Prerequisite: Team member of MCHS golf, tennis, swimming, cross country, track, or COED cheerleading.*

*This course can be repeated*

This course is designed for highly motivated male student athletes participating in the sports of golf, tennis, wrestling, swimming, cross country, track, and cheerleading at MCHS to utilize principles of free weights, exercise machines, and speed and agility. Proper weightlifting techniques and safety precautions will be emphasized in this course.

**Women's Advanced Strength and Conditioning**

Course #505

Open to grades 9-10-11-12

1 credit

*Prerequisite: Team member of MCHS golf, tennis, wrestling, swimming, cross country, track, cheerleading, volleyball, basketball, or softball team*

*This course can be repeated*

This course is designed for highly motivated female student athletes participating in the sports of golf, tennis, swimming, cross country, track, cheerleading, volleyball, basketball, and softball at MCHS to utilize principles of free weights, exercise machines, and speed and agility. Proper weightlifting techniques and safety precautions will be emphasized in this course.

**Varsity Football Strength & Conditioning**

Course #507

Open to grades 10-11-12

1 credit

*Prerequisite: Member of the MCHS football team enrolled in 10, 11, or 12 grade This course can be repeated*

This course is designed to teach the highly motivated male student athlete participating in football at MCHS to utilize principles of free weights, exercise machines, and speed and agility. Proper weightlifting techniques and safety precautions will be emphasized in this course.

**Freshmen Football Strength & Conditioning**

Course #508 Open to grades 9

1 credit

*Prerequisite: Member of the MCHS football team enrolled in 9th grade*

This course is designed to teach the highly motivated male student athlete participating in football at MCHS to utilize principles of free weights, exercise machines, and speed and agility. Proper weightlifting techniques and safety precautions will be emphasized in this course.

**Baseball Strength & Conditioning**

Course #509

Open to grades 9-10-11-12

1 credit

*Prerequisite: Member of the MCHS baseball**team This course can be repeated*

This course is designed to teach the highly motivated male student athlete participating in baseball at MCHS to utilize principles of free weights, exercise machines, and speed and agility. Proper weightlifting techniques and safety precautions will be emphasized in this course.

**Basketball Strength & Conditioning**

Course #510

Open to grades 9-10-11-12

1 credit

*Prerequisite: Member of the MCHS basketball**team This course can be repeated*

This course is designed to teach the highly motivated male student athlete participating in basketball at MCHS to utilize principles of free weights, exercise machines, and speed and agility. Proper weightlifting techniques and safety precautions will be emphasized in this course.

**Soccer Strength & Conditioning**

Course #511

Open to grades 9-10-11-12

1 credit

*Prerequisite: Member of the MCHS men's soccer team**This course can be repeated*

This course is designed to teach the highly motivated male student athlete participating in soccer at MCHS to utilize principles of free weights, exercise machines, and speed and agility. Proper weightlifting techniques and safety precautions will be emphasized in this course.

**Wrestling Strength & Conditioning**

Course #512

Open to grades 9-10-11-12

1 credit

*Prerequisite: Member of the MCHS wrestling**team This course can be repeated*

This course is designed to teach the highly motivated male student athlete participating in wrestling at MCHS to utilize principles of free weights, exercise machines, and speed and agility. Proper weightlifting techniques and safety precautions will be emphasized in this course.

**Volleyball Strength & Conditioning**

Course #513

Open to grades 9-10-11-12

1 credit

*Prerequisite: Member of the MCHS volleyball team This course can be repeated*

This course is designed to teach the highly motivated female student athlete participating in volleyball at MCHS to utilize principles of free weights, exercise machines, and speed and agility. Proper weightlifting techniques and safety precautions will be emphasized in this course.

## Science

### **Integrated Science I**

Course #600

Open to grade 9

1 credit

*Prerequisite: None*

*Lab Fee: \$20*

This course involves a lab centered interdisciplinary approach with main emphasis on introductory earth and space science and physical science as outlined by the Kentucky Core Academic Standards including: energy in the earth system, geochemical cycles, climate, tectonic plates, formation and ongoing changes of the earth system and the universe, ecology, renewable resources, interrelation of organisms. This course prepares students to continue science courses requiring laboratory skills.

### **Biology**

Course #601

Open to grades 10

1 credit

*Prerequisite: Integrated Science I*

*Lab Fee: \$20*

This course takes an extensive and comprehensive look at all the areas that fall under the scope of Biology including the cell, genetics and ecology. The curriculum is designed around the numerous standards set forth by the Next Generation Science Standards framework and aspires to prepare each student for the End of Course exam that is a spring testing requirement for this course.

### **Honors Biology**

Course #602

Open to grades 9-10

1 credit

*Prerequisite: None*

*Lab Fee: \$20*

This course involves a lab centered interdisciplinary approach with main emphasis on life science as outlined by the Next Generation Science Standards including: the cell, the molecular basis of heredity, biological change, interdependence of organisms, matter, energy and organization of living systems, and the behavior of organisms. The pace of this course is accelerated and material is presented in greater depth than in Biology.

**Integrated Science II**

Course #603

Open to grades 11

1 credit

*Prerequisite: Integrated Science I and/or Biology**Lab Fee: \$20*

This course introduces students to techniques and methods employed in both chemistry and physics with emphasis on laboratory work in solving problems of a scientific nature. A review/extension of Earth-Space Science is included. Individual and group laboratory experiences are an integral part of the course.

**Chemistry**

Course #604

Open to grades 10-11

1 credit

*Prerequisite: Honors Biology and Algebra I**Lab Fee: \$20*

This course involves the application of chemical concepts in a variety of problem solving and laboratory situations. Content for the course will include: structure, classification and properties of matter, chemical reactions, stoichiometry, atomic theory and periodicity, interactions of energy and matter, acids and bases, and equilibrium.

**Intro to Physics**

Course #633

Open to grades 11

1 credit

*Prerequisite: Chemistry & Algebra I**Lab Fee: \$20*

This course develops a conceptual understanding of physics and Earth/space science content through the use of scientific inquiry. They experience physics and Earth/space science concepts such as motions and forces, conservation of energy and the increase in disorder, interactions of energy and matter, and energy in the Earth system. A scientific inquiry approach uses concrete hands-on experiences that require students to apply critical thinking skills.

**Physics**

Course #605

Open to grades 11

1 credit

*Prerequisite: Algebra II and Chemistry**Lab Fee: \$20*

This course is a study of some of the major concepts and laws of classical and modern physics. Historical context provides the student with a foundation for understanding the natural phenomena and technological devices encountered in

everyday experience. Topics include a study of motion and Newton's laws, momentum and energy, the structure of matter, thermodynamics, relativity, wave motion, electromagnetism, light and the quantum nature of the atomic and subatomic world.

### **AP Biology**

Course #606

Open to grades 11-12

1 credit

*Prerequisite: Honors Biology and Chemistry*

*Lab Fee: \$20*

In this course, students study advanced topics in biology as recommended by the College Board. In-depth study of topics is reinforced by laboratory work and individual projects. This sequence is beneficial for students considering science, medicine, or related careers. **Students enrolled in this course are expected to sit for the Advanced Placement Biology examination.**

### **AP Chemistry**

Course #607

Open to grades 11-12

1 credit

*Prerequisite: Honors Biology, Chemistry, and Algebra II*

*Lab Fee: \$20*

This course covers chemical bonding, structure of matter, kinetic theory, solutions, acid/base reactions, oxidation-reduction, electrochemistry, molecular geometry, thermodynamics, equilibrium and an introduction to organic chemistry. Experiments reinforce these units; problem solving is emphasized. **Students enrolled in this course are expected to sit for the Advanced Placement Chemistry examination.**

### **AP Environmental Science**

Course #608

Open to grades 11-12

1 credit

*Prerequisite: Biology and Chemistry*

*Lab Fee: \$20*

This course allows students to investigate the interrelationships of the natural world, analyze environmental problems, and examine alternative solutions for resolving/preventing these problems. **Students enrolled in this course are expected to sit for the Advanced Placement Environmental Science examination.**

**AP Physics 1**

Course #631

Open to grade 12

1 credit

*Prerequisite: Physics, Chemistry, and Pre-Calculus**Lab Fee: \$20*

This course provides a systematic introduction to the main principles of physics and emphasis on the development of conceptual understanding and problem-solving ability using algebra and trigonometry, but rarely calculus. In most colleges, this is a one-year terminal course including a laboratory component and is not the usual preparation for more advanced physics and engineering courses. This course is designed for students planning to major in science and engineering.

**Students enrolled in this course are expected to sit for the Advanced Placement Physics 1 examination.**

**Forensic Science**

Course #611

Open to grades 11-12

1 credit

*Prerequisite: Biology and Integrated Science II or Chemistry**Lab Fee: \$20*

This course is designed to give students an overview of various topics within the forensic science field. The course will incorporate concepts from biology, chemistry, physics, history, and writing. It will include extensive laboratory work and research. Areas of study will include forensics, gross anatomy, ballistics, trace evidence, fingerprinting, criminal profiling and toxicology.

**Anatomy and Physiology**

Course #612

Open to grades 11-12

1 credit

*Prerequisite: Biology and Integrated Science II or Chemistry**Lab Fee: \$20*

This course is an advanced lab-oriented course in which students investigate the structures and functions of the components of the human body. This course investigates the specialization of cells, how cells function cooperatively as tissues and organs, and the interrelationships of systems that result in a living organism. The course offers students opportunities to investigate anatomical structures and regulating mechanisms that influence how systems function. The course is designed to build a knowledge base for those students who wish to pursue a medically oriented career. May include cat or fetal pig dissection. If taken as dual credit BIO 135, student will receive 4 college credit hours.

**Human Ecology-Dual Credit**

Course #613

Open to grades 11-12

1 credit

*Prerequisite: Biology and Integrated Science II or Chemistry*

This course examines the way in which human populations impact ecosystems such as the desert, tropical rain forests, tundras, etc. This course also examines the extent to which resources are needed to sustain populations given certain behaviors in an ecosystem. Population growth and economic development are also considered in this course.

## Health Science

### **Principles of Health Sciences**

Course #624

Open to grades 9-10-11

1 credit

*Prerequisite: None*

This course is an orientation to the Health Care Industry. The course focuses on exploring health career options, history of healthcare, ethical and legal responsibilities, leadership development, safety concepts, health care systems and processes and basic health care industry skills. This introductory course is a prerequisite for additional courses in the Health Science program.

### **Emergency Procedures**

Course #626

Open to grades 9-10-11-12

.5 credit

*Prerequisite: None*

This course will focus on potential emergency situations. It is designed to promote an understanding of standard precautions necessary for personal and professional health maintenance and infection control. Upon successful completion of the course, the student will demonstrate the necessary skills in First Aid and Cardiopulmonary Resuscitation (CPR) and will be given the opportunity to take the completion examination as outlined by the American Heart Association.

### **Medical Terminology**

Course #632

Open to grades 9-10-11-12

.5 credit

*Prerequisite: Principles of Health Science or Sports Medicine or Principles of Biomed*

This course is a study of anatomical, physiological, and pathological terminology with emphasis on work structures and definition of root words, suffixes, and prefixes from Greek and Latin.

Additional emphasis is placed on spelling and pronunciation. Primarily designed for individuals preparing for a career in health care. No previous knowledge of Greek or Latin is required.

### **Medicaid Nurse Aide**

Course #619

Open to grades 11-12

1 credit

*Prerequisite: Principles of Health Sciences or Emergency Procedures/Medical Terminology*

This course is an instructional program that prepares individuals to perform routine nursing-related services to patients and hospitals or long-term care facilities under

the training and supervision of an approved registered nurse. State Registry is available upon successful completion of state written and performance examination. Prior to offering this course, the instructor and health science program must be approved for meeting state requirements set by the Cabinet for Health and Family Services. Clinical experience will be at a nursing home facility with hands-on care.

### **Essentials of Sports Medicine (formerly known as Principles of Sports Medicine)**

Course #621

Open to grades 11-12

1 credit

*Prerequisite: Principles Health Science or Emergency Procedures*

This course is designed for students interested in fields such as athletic training, physical therapy, medicine, fitness, physiology of exercise, kinesiology, nutrition and other sports medicine related fields. It includes class work and practical hands-on application in the following areas: prevention, treatment, and rehabilitation of sports injuries, taping and wrapping of injuries, First Aid/CPR, emergency procedures and sports medicine careers. The course offers practical experiences with local sports medicine specialists.

### **Allied Health Core Skills**

Course #000

Open to grades 11-12

1 credit

*Prerequisite: Principles of Health Science, Emergency Procedures/Medical Terminology*

This course is designed to provide knowledge, concepts and psychomotor skills necessary for gainful employment as an entry-level health care worker. Assisting students in selecting a career major, classroom instruction and educational objectives are combined with learning experiences, observations, and a work-based learning opportunity such as internship, shadowing, or clinical rotation. This course is designed for students not enrolled in the Medicaid Nurse Aide program or the Patient Care Technician program.

### **Nursing Co-op**

Course #

Open to grades 11-12

1 credit

*Prerequisite: Students MUST have completed the three courses in the Pre-Nursing pathway to be eligible for nursing co-op.*

Cooperative Education for CTE courses provide supervised work site experience related to the student's identified career pathway. A student must be enrolled in an approved capstone course during the same school year that the co-op experience is completed. Students who participate receive a salary for these experiences, in accordance with local, state and federal minimum wage requirements.

### **Internship: Dental Assistant**

Course #000

Open to grades 11-12

1 credit

*Prerequisite: Students MUST have completed the three courses in the Dental Assisting pathway to be eligible for the dental assistant internship.*

This internship provides supervised on-the-job work experience related to the students' education objectives in the area of Dental Assisting. Students participating in internship for CTE courses provide supervised work-site experience for high school students who are enrolled in a capstone course associated with their identified career pathway. Internship experiences consist of a combination of classroom instruction and field experiences. A student receiving pay for an intern experience is one who is participating in an experience that lasts a trimester/semester or longer and has an established employee-employer relationship. A non-paid internship affects those students who participate on a short-term basis (trimester/semester or less).

### **Principles of Biomedical Sciences (PBS)**

Course #614

Open to grades 9-10

1 credit

*Prerequisite: None*

*Course Fee \$25 (this includes a laboratory journal and a lab fee)*

The Project Lead the Way Biomedical Sciences (BMS) Program is a four-year program that contains rigorous college-level courses designed for students that have an interest in the medical field. PBS is the first course in the sequence of BMS program; it is designed to provide an overview of all the courses in the BMS program and lay the scientific foundation necessary to continue their success in the program.

In PBS, 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. **Students completing PBS are required to take the nationwide PLTW End of Course Exam. Three hours college credit can be received upon completion with a A or B in the class AND a 6 or higher on the PLTW EOC Assessment.**

**Human Body Systems (HBS)**

Course #615

Open to grades 10-11

1 credit

*Prerequisite: Principles of Biomedical Science**Course Fee \$25 (this includes a laboratory journal and a lab fee)*

Students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries. **Students completing HBS are required to take the nationwide PLTW End of Course Exam. Three hours college credit can be received upon completion with a A or B in the class AND a 6 or higher on the PLTW EOC Assessment.**

**Medical Interventions (MI)**

Course #616

Open to grades 11-12

1 credit

*Prerequisite: Principles of Biomedical Science and Human Body**Course Fee \$60 (this includes a laboratory journal, lab coat, lab fee and PLTW t-shirt)*

Students investigate the variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the lives of a fictitious family. The course is a “How-To” manual for maintaining overall health and homeostasis in the body as students explore: how to prevent and fight infection; how to screen and evaluate the code in human DNA; how to prevent, diagnose and treat cancer; and how to prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to the wide range of medical interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. **Students completing MI are required to take the nationwide PLTW End of Course Exam. Three hours college credit can be received upon completion with a A or B in the class AND a 6 or higher on the PLTW EOC Assessment.**

**Biomedical Innovation (BI)**

Course #617

Open to grade 12

1 credit

*Prerequisite: Principles of Biomedical Science and Human Body Systems and Medical Interventions**Course Fee \$25 (this includes a laboratory journal and lab fee)*

Students apply their knowledge and skills to answer questions or solve problems related to the biomedical sciences. Students design innovative solutions for the health challenges of the 21<sup>st</sup> century as they work through progressively challenging open-ended problems, addressing topics such as clinical medicine,

physiology, biomedical engineering, and public health. Throughout this course, students are also required to team with the American Red Cross to design and implement four successful blood drives for MCHS throughout the year. **Three hours college credit can be received upon completion with an A or B in the class.**

## Engineering and Technology

### **Introduction to Engineering Design (IED)**

Course #650

Open to grades 9-10-11-12

1 credit

*Prerequisite: None*

This is the first course in the Project Lead The Way sequence of pre-engineering. This course teaches problem-solving skills using a design development process. Models of product solutions are designed, created, analyzed, and communicated using solid modeling computer design software (commonly called CAD).

### **Principles of Engineering (POE)**

Course #651

Open to grades 9-10-11-12

1 credit

*Prerequisite: Completion of Algebra I*

This course is the second in the Project Lead The Way sequence of pre-engineering. This course helps students understand various fields of engineering and engineering technology with a focus on mechanical and electronic engineering, as well as small scale robotics and programming. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science, and technology in an engineering problem solving process to benefit people and society.

### **Digital Electronics (DE)**

Course #652

Open to grades 10-11-12

1 credit

*Prerequisite: Completion of Algebra I*

This course is the third in the Project Lead The Way sequence of engineering studies. This course in applied logic encompasses the application of electronic circuits and devices. Computer simulation software is used to design and test digital circuitry prior to the actual construction of circuits and devices.

**Engineering Design and Development (EDD)**

Course #654

Open to grade 12

1 credit

*Prerequisite: Intro to Engineering (IED), Principles of Engineering (POE), and Digital Electronics (DE)*

The knowledge and skills students acquire throughout PLTW Engineering courses come together in EDD 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 EDD ready to take on any post-secondary program or career. The end-goal of this course is for students to have designed a product that can be patented.

**Environmental Sustainability**

Course #655

Open to grades 11-12

1 credit

*Prerequisites: Biology*

This course involves students investigating and designing solutions to solve real-world challenges related to clean and abundant drinking water, food supply enhancement, genetically modified organisms, and renewable energy. This course has the potential to bring together a diverse group of students with interests in biology, chemistry, and/or environmental studies, and gives students the opportunity to lead their own learning, collaborate, and gain skills needed to communicate their creative designs.

## Social Studies

### **Human Government and Geography**

Course #703

Open to grades 9

1 credit

*Prerequisite: None*

This course will present high school students with the survey courses of human geography and government and economics. Content is presented thematically rather than regionally and is organized around the disciplines of geography, government and economics according to the National and State standards. The approach is spatial and problem oriented, with case studies drawn from all world regions, with an emphasis on understanding the world in which we live today. The primary emphasis of this course is to give students a foundation to Geography both Human and Physical, Government-creation of the American Government system and Economics as it relates to the business and consumer world.

### **U.S. History**

Course #701

Open to grades 11

1 credit

*Prerequisite: None*

This course is focused on the forces that shaped and continue to shape political, economic, and social institutions and the impact of these forces on the development of the U.S. from colonial to the present. Changes in social and cultural values will be included. The growth of the arts and literature, social reform movements, the extension of civil rights, the labor movement and the growth of government will be included. The diversity of ethnic and racial origins of Americans and the impact of this diversity of the nation will be emphasized. **Students completing U.S. History will be required to take the Citizenship exam. Students must score a 60% or higher to graduate from high school.**

### **History of US thru 1865-Dual Credit**

Course #HIS108DC

Open to grades 11-12

1 credit

*Prerequisites: Must meet ACT benchmarks & must be taken with HIS 109*

***\*This course satisfies the US History requirement***

This course examines key political, economic, and social topics that have significantly influenced the American experience from the pre-colonial period through the Civil War era.

**History of US since 1865-Dual Credit**

Course #HIS109DC

Open to grades 11-12

1 credit

*Prerequisites: Must meet ACT benchmarks & must be taken with HIS 108****\*This course satisfies the US History requirement***

This course examines key political, economic, and social topics that have influenced significantly the American experience from Reconstruction through the contemporary era.

**World Civilization and Geography**

Course #702

Open to grades 10

1 credit

*Prerequisite: None*

This course establishes a framework in which historical patterns, themes and concepts are explored. Although this course touches on some of the greatest ancient and classical civilizations of the old world, it also covers the development of western traditions, especially in the last 500 years. There is an emphasis on the geographical context of civilizations. Students will find ample reason to appreciate both the diversity of the human past and the commonalities in each stage of history. Basic skills in reading, writing, note and test taking will be practiced. Social skills, cooperative group work, debate and class discussion will be taught.

**AP U.S. History**

Course #703

Open to grades 11

1 credit

*Prerequisite: None**Satisfies the U.S. History requirement*

This course considers the American experience from colonial times to the present. The course requires excellent reading and writing skills, and its structure is designed to prepare students for the Advanced Placement Test in U. S. History. Course activities include writing positions papers each semester, two to four in class essays per month and three to four document-based questions per year. A heavy emphasis is placed on analyzing and synthesizing information obtained from primary sources. **Students enrolled in this course are expected to sit for the Advanced Placement U.S. History examination. Students completing AP U.S. History will be required to take the Citizenship Exam. Students must score a 60% or higher to graduate from high school.**

**AP World History**

Course #704

Open to grades 10

1 credit

*Prerequisite: None**Satisfies the World Civilization requirement*

This course is designed to be the equivalent of a two-semester introductory college or university world history course. In AP World History students investigate significant events, individuals, developments, and processes in six historical periods from approximately 8000 B.C.E to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources, developing historical arguments, making historical comparisons, and utilizing reasoning about contextualization, causation, and continuity and change over time. The course provides five themes that students explore in order to make connections among historical developments in different times and places: interaction between humans and the environment, development and interaction of cultures, state building, expansion, and conflict, creation, expansion, and interaction of economic systems, and development and transformation of social structures. Students enrolled in this course are expected to sit for the Advanced Placement World History exam.

**AP European History**

Course #705

Open to grades 10-11-12

1 credit

*Prerequisite: None*

This course will cover the period from 1450 to the present. AP European History will focus on understanding principals of European history thematically, analysis of historic evidence and interpretation of historic documents/events and expression of historical understanding in writing. Students will use a chronological approach to examine history and its impact on three interrelated categories: intellectual and cultural history, political and diplomatic history, and social and economic history. **Students enrolled in this course are expected to sit for the Advanced Placement European History examination.**

**AP Psychology**

Course #706

Open to grades 10-11-12

1 credit

*Prerequisite: Intro to Psychology or have previously passed an AP/Honors course*

This course in Psychology will introduce the systematic study of the behavior and mental processes of human beings and other animals. Included is a consideration of the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students also learn about the ethics and methods psychologists use in their science and practice. **Students enrolled in this course are expected to sit for the Advanced Placement Psychology examination.**

**AP Government and Politics: United States**

Course #707

Open to grades 9-10-11-12

1 credit

*Prerequisite: None*

This course provides an analytical perspective on government and politics in the United States. It involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. political reality. **Students enrolled in this course are expected to sit for the Advanced Placement Government examination.**

**AP Human Geography**

Course #709

Open to grades 9-10-11-12

1 credit

*Prerequisite: None**Satisfies the Human Government and Geography requirement*

This course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of our world. Students employ geographical and spatial concepts and tools to analyze topics such as human population movement and organization, cultural patterns and processes, political organization, agricultural and rural land use, industrialization and economic development, and city and urban land use. Students will be expected to integrate college-level reading with maps, graphs and other spatial data sets to conduct analyses, apply models and draw conclusions. **Students enrolled in this course are expected to sit for the Advanced Placement Human Geography examination.**

**Intro to Psychology**

Course #714

Open to grades 9-10-11-12

1 credit

*Prerequisite: None*

This course deals with emotional, behavioral and mental processes of people in society. Special emphasis includes: abnormal psychology (psychological disorders and treatments) and social psychology (people's perceptions of themselves and others, group behavior and interpersonal attraction). In addition, other topics covered include personality, learning, memory, and the brain. This course will provide an introduction to topics typically covered in an introductory level college psychology course. Students will learn how psychology applies to their lives by partaking in class discussions and group projects. Upon completion of this course students should have a better understanding of themselves and the wide variety of people around them.

**Sociology**

Course #713

Open to grades 9-10-11-12

1 credit

*Prerequisite: None*

This course provides students with a chance to examine human social interaction and social organization. Sociology focuses on special topics such as groups, culture, socialization, deviance and inequalities in gender, social class, race and ethnicity. This class will explore these areas through sociological readings and engaging in discussing and simulation. Students will learn how to become more reflective of themselves, their community, and their society.

**AP Macroeconomics**

Course #708

Open to grades 10-11-12

1 credit

*Prerequisite: None*

The purpose of the AP course in macroeconomics is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination, and also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. **Students enrolled in this course are expected to sit for the Advanced Placement Macroeconomics examination.**

## World Language

### **Spanish I**

Course #800

Open to grades 9-10-11-12

1 credit

*Prerequisite: None*

This course focuses on the introduction and development of the four basic language skills: listening comprehension, speaking, reading and writing. Students will also be introduced to the culture, customs, and traditions of the Spanish-speaking world. Students will begin to develop connections between the use of a second language and real world situations.

### **Spanish II**

Course #801

Open to grades 9-10-11-12

1 credit

*Prerequisite: Spanish I*

This course helps students extend the ability to use the four basic language skills: listening comprehension, speaking, reading, and writing. Students will be introduced to many higher-level grammar concepts. Students will also enhance their knowledge of the culture, customs, and traditions of the Spanish-speaking world. A greater emphasis will be put on how the study of a second language can translate into future goals and employment opportunities.

### **Spanish III**

Course #802

Open to grades 9-10-11-12

1 credit

*Prerequisite: Spanish II*

This course is an advanced class that focuses on the development of both grammar and communication skills. Students will read a variety of literary offerings and will participate in immersion activities meant to build proficiency in the four language skills: listening comprehension, speaking, reading and writing. Level III will also begin the necessary preparation for those students interested in taking the Advanced Placement courses and exams. If possible, since they are block classes only offered in the Fall (Spanish III) and Spring (Spanish IV), it is recommended that students sign up to take Spanish III/Spanish IV during the same year.

**Spanish IV**

Course #813

Open to grades 9-10-11-12

1 credit

*Prerequisite: Spanish III*

This course is an advanced class that focuses on the development of both grammar and communication skills. Students will read a variety of literary offerings and will participate in immersion activities meant to build proficiency in the four language skills: listening comprehension, speaking, reading and writing. Level IV will continue the necessary preparation for those students interested in taking the Advanced Placement courses and exams. If possible, since they are block classes only offered in the Fall (Spanish III) and Spring (Spanish IV), it is recommended that students sign up to take Spanish III/Spanish IV during the same year.

**AP Spanish Language and Culture**

Course #804

Open to grades 10-11-12

1 credit

*Prerequisite: Spanish IV credit (or teacher approval)*

The AP Spanish Language course is equivalent to a college survey course of Hispanic Culture and the Spanish Language and prepares the students for the Advanced Placement Spanish Language and Culture Exam. AP Spanish Language continues the development of the four basic skills in foreign language study: listening comprehension, speaking, reading and writing. Also emphasized are the culture, customs and traditions of the Spanish-speaking world. Students will read a variety of offerings from Spanish literature. All readings, written assignments and discussions are in Spanish. Students enrolled in this course are encouraged to sit for the Advanced Placement Spanish Language and Culture examination.

**AP Spanish Literature and Culture**

Course #814

Open to grades 11-12

1 credit

*Prerequisite: AP Spanish Language and Culture*

The AP Spanish Literature course is equivalent to a college survey course of Hispanic and Spanish Literature and prepares the students for the Advanced Placement Spanish Literature Exam. All readings, written assignments and discussions are in Spanish. The course centers on the understanding, analysis and appreciation of literary texts and includes poetry, prose and drama from various countries and periods of Spanish literature. The reading list, which is text-selected by the AP Board, encompasses Hispanic literature from the Medieval and Golden Age through the Twentieth Century. Students enrolled in this course are encouraged to sit for the Advanced Placement Spanish Literature and Culture examination.

**French I**

Course #805

Open to grades 9-10-11-12

1 credit

*Prerequisite: None / must have solid grasp of English grammar skills and reading for success.* This course focuses on the introduction and development of the four basic language skills: listening comprehension, speaking, reading and writing. Students will also be introduced to the culture, customs, and traditions of the French-speaking world. Students will begin to develop connections between the use of a second language and real world situations.

**French II**

Course #806

Open to grades 10-11-12

1 credit

*Prerequisite: French I*

This course helps students extend the ability to use the four basic language skills: listening comprehension, speaking, reading and writing. Students will be introduced to many higher-level grammar concepts. Students will also enhance their knowledge of the culture, customs, and traditions of the French-speaking world. A greater emphasis will be put on how the study of a second language can translate into future goals and employment opportunities.

**French III**

Course #807

Open to grades 11-12

1 credit

*Prerequisite: French II*

This course is an advanced class that focuses on the development of both grammar and communication skills. Students will use authentic materials and participate in immersion activities meant to build proficiency in the four language skills: listening comprehension, speaking, reading, and writing. Level III will also begin the necessary preparation for those students interested in taking the Advanced Placement class and exam.

**AP French Language and Culture**

Course #808

Open to grades 11-12

1 credit

*Prerequisite: French III*

This course offers students the opportunity to continue foreign language study and to prepare for the AP French Language Exam. AP French continues the development of the four basic skills in foreign language study: listening comprehension, reading, speaking, writing as well as the culture, customs and traditions of the French speaking world. Students will focus on current events and culture with some traditional French literature and history.

**French Independent Study**

Course #815

Open to grade 12

1 credit

*Prerequisite: AP French (Teacher Approval)*

This course offers students the opportunity to continue foreign language study and to prepare for French at the college level. Independent Study continues the development of the four basic skills in foreign language study: listening comprehension, reading, speaking, writing as well as the culture, customs and traditions of the French speaking world. The course will be project based with teacher-guided curriculum.

**German I**

Course #809

Open to grades 9-10-11-12

1 credit

*Prerequisite: None/must have solid grasp of English grammar skills and reading for success*

This course focuses on the introduction and development of the four basic language skills: listening comprehension, speaking, reading and writing. Students will also be introduced to the culture, customs, and traditions of the German-speaking world. Students will begin to develop connections between the use of a second language and real world situations.

**German II**

Course #810

Open to grades 10-11-12

1 credit

*Prerequisite: German I*

This course helps students extend the ability to use the four basic language skills: listening comprehension, speaking, reading and writing. Students will be introduced to many higher-level grammar concepts. Students will also enhance their knowledge of the culture, customs, and traditions of the German-speaking world. A greater emphasis will be put on how the study of a second language can translate into future goals and employment opportunities.

**German III**

Course #811

Open to grades 11-12

1 credit

*Prerequisite: German II*

This course focuses on the development of both grammar and communication skills. Students will read a variety of literary offerings and will participate in immersion activities meant to build proficiency in the four language skills: listening comprehension, speaking, reading, and writing. Level III will also begin

the necessary preparation for those students interested in taking the Advanced Placement class and exam.

### **AP German Language and Culture**

Course #812

Open to grades 11-12

1 credit

*Prerequisite: German III*

This course offers students the opportunity to continue foreign language study and to prepare for the AP German Language Exam. AP German focuses on listening, reading, writing, and speaking the language and follows the curriculum established by the College Board. The curriculum focus is on global topics.

### **German Independent Study**

Course #816

Open to grade 12

1 credit

*Prerequisite: AP German (Teacher Approval)*

This course offers students the opportunity to continue foreign language study and to prepare for German at the college level. Independent Study continues the development of the four basic skills in foreign language study: listening comprehension, reading, speaking, writing as well as the culture, customs and traditions of the German speaking world. The course will be project based with teacher-guided curriculum.

## **Miscellaneous Courses**

### **Help Desk**

Course #170

Open to grades 11-12

1 credit

**\*\*This course could affect your class rank since student will receive a pass/fail grade\*\***

*Prerequisite: Application and teacher approval*

This course is designed to introduce the student to the concepts of networking, computer support services, advanced web design, and career exploration while organizing a student-run Technology Help Desk. Coursework is designed to develop skills to repair student laptops and desktop computers.

### **Peer Tutoring**

Course #900

Open to grades 11-12

1 credit

**\*\*This course could affect your class rank since student will receive a pass/fail grade\*\***

*Prerequisite: 3.0 GPA and teacher approval*

This course is for students interested in working with students with special needs.

Students will assist special education teachers and will be expected to help deliver one on one instruction.

### **Study Hall**

Course #906

Open to grades 11-12

0 credit

**\*\*This course could affect your class rank since no credit is awarded\*\***

*Prerequisite: Enrollment in minimum of 2 AP courses and/or on-campus Dual Credit or enrolled in an online Dual Credit class, 3.5 GPA*

This course is offered to give Honor students the opportunity to take a rigorous schedule and have the opportunity for extra support during the school day. Juniors are only allowed to have 1 Study Hall during a school year, regardless of the number of enrolled AP courses. Seniors enrolled in 2 AP courses are allowed 1 study hall per school year. Seniors enrolled in 3 or more AP courses are allowed 2 study halls per school year (1 study hall per semester).

### **Teacher Aid**

Course #907

Open to grade 12

1 credit

**\*\*This course could affect your class rank since student will receive a pass/fail grade\*\***

*Prerequisite: 3.5 GPA and teacher approval*

Students chosen for this course will be assigned to a specific teacher and will report to that teacher on a daily basis. Students may provide tutoring services, basic office and clerical services, copying services, and a variety of other services for the teachers.

### **Introduction to Teaching-Dual Credit**

Course #EDU180

Open to grade 11-12

1 credit

*Prerequisite: Students must meet admission requirements of an ACT composite of 18 or higher and a GPA of 3.0 or top half of their class*

This course is taught in conjunction with Murray State University. Students will be introduced to the teaching career. Students will be introduced to factors that impact teaching as a profession and the historical, socio-cultural, psychological, and philosophical foundations of education. Students will understand the role of the teacher in the classroom, school, and community. Students will observe at the elementary, middle, and high school levels. **Students will be required to attend one School Based Decision Making Meeting and one meeting of the Board of Education. Failure to attend either of these two meetings will result in loss of credit for the course.**

### **Leadership Development & Service Learning**

Course #903

Open to grades 11-12

1 credit

*Prerequisite: None*

This course involves service learning and leadership that engages students directly in structured, community and school-based activities to acquaint them with opportunities for service and assess community needs. It also integrates concepts from the classroom with community service allowing students to practice these concepts while developing an appreciation for service. Additionally, students will spend time examining and developing characteristics of leadership through text and personal development studies, group work, and class projects. A major component of the course is to complete 45 volunteer service hours by the end of the year. Of the 45 required hours, 10 must be completed outside of school day.

### **Education Co-op-Dual Credit Placeholder**

Course #1016

Open to grade 11-12

*Prerequisite: None*

This course is a placeholder for students who enroll in college courses not taught at MCHS.

### **Experienced Based Work**

Course #913

Open to grades 11-12

*Prerequisite: Area of employment or internship must be in a pathway not offered at MCHS*

Work based experience provides an opportunity for students to work with a team consisting of a school advisor and potential employer to develop and improve on skills necessary to be successful in the workforce. The skills that are explored include job search, interviewing, job shadowing, communication skills, professionalism and working as a team. Career advising is an important element of this course and should take place in a real world context. The course may involve academic projects aligned to skills applied at the workplace.

### **Educational and Life Skills Resource Program**

Open to grades 9-10-11-12

1 credit

*Prerequisite: Individual Education Plan*

This course is designed to meet the needs of students with moderate to severe cognitive and communication disorders. It is designed to meet the highly specialized and individual IEP needs in the areas of academic, communication, recreation, daily living skills and community training. The curriculum focuses on opportunity to pursue occupational and daily living goals. The course offers preparation for the world of work and on-the-job training with a job coach for in-school and field placements. Instructors use activities and assessments along with

unique high school curriculum and a transition program to teach these standards. Each unit consists of a social studies or science theme with reading, writing, and math embedded into the unit. Reading consists of reading passages orally by student or instructor with answering comprehension questions about the passage. Writing consists of journal writing, correct spelling, punctuation and capitalization. Math consists of addition, subtraction, word problems, money, time, and simple algebra and geometry. The course teaches skills that are necessary to be successful in life. Other skills taught are money, time management, cooking, job skills, and social skills.

---

## Paducah Area Technology Courses

Kentucky Tech - Paducah Area Technology Center (ATC) is located at 2400 Adams Street, Paducah, and is one of 54 KY Tech Area Tech Centers located across the state in the Office of Career and Technical Education. The primary purpose of the ATC is to provide technical training to secondary students from surrounding high schools.

All courses at KY Tech--Paducah are KENTUCKY TECH courses and most will lead toward certification. All courses provide marketable entry-level skills in the program's area of study. The high school courses listed below often include multiple KY Tech courses. The individual KY Tech courses are listed under the generic name of the high school course. College credit for most of these KY Tech courses may be obtained at no cost to students through West Kentucky Community and Technical College and other colleges and universities. These courses are **available to sophomores, juniors and seniors** on track to graduate from McCracken County High School.

### Auto Maintenance

#### **Auto Maintenance & Light Repair Sections A-D**

Course #45470507/45470509/45740513

Open to grades 10-11-12

These courses introduce the student to the principles, theories, and concepts of Automotive Technology, and include instruction in the maintenance and light repair of Engines, Brake Systems, Electrical/Electronic Systems, Suspension and Steering Systems, Automatic and Manual Transmission/Transaxles, and Engine Performance Systems.

**Courses A, B, C and D can be completed in any sequence.**

#### **AM & Light Repair Special Problems I-IV**

Course #45470577/45470578/45470579/45740584

Open to grades 11-12

*Prerequisite: Completion of the Automotive Maintenance and Light Repair Courses/Sections A, B, C and D and consent of instructor*

These courses are designed to enhance a student's understanding of shop situations and problems that arise when dealing with live work. It expands on the task lists that have already been taught to the student in **previous** auto courses. The instructor will teach students how to deal with real world problems that arise when repairing automobiles subjected to various types of customer road use.

## Collision Repair

### **Painting and Refinishing I, II, III**

Course #45470639/45470640/45470645

Open to grades 10-11-12

These courses provide instruction in the use of lacquer, acrylic enamel and base coat/clear coat refinishing products, masking procedures, preparations and paint problems. It will be taught by demonstration and lecture. The skills required are most effectively taught and practiced on live work. Due to the unpredictable nature of live work, some tasks may carry over to other courses.

### **Introduction to Collision Repair**

Course #45470631

Open to grades 10-11-12

This course introduces the student to safety, sanding, grinding, pulling, roughing and filling; the use of tools and equipment; and preparing and priming automotive panels through lectures and demonstrations. **This class is paired with 4570628 Damage Analysis.**

### **Damage Analysis, Estimating & Customer Service**

Course #45470628

Open to grades 10-11-12

This course will show students how to perform damage analysis, estimating and providing quality customer service. Safety requirements must be strictly enforced with wearing clothing and the use of gloves, respiratory protection, eye protection, hand tools, power equipment, proper ventilation, and the handling, storage, and disposal of chemicals/materials in accordance with local, state, and federal safety and environmental regulations. **This class is paired with 45470631 Introduction to Collision Repair.**

### **Non-Structural Damage I, II, III**

Course #45470633/45470644/45470649

Open to grades 10-11-12

These courses give instruction and provides practical experience in replacing and aligning bolts on automotive parts such as doors, hoods, and fenders; as well as instruction on the repair and replacement of non-structural weld-on automotive panels by aligning, welding, cutting, and drilling through demonstrations and lectures. It will be taught by demonstration and hands-on practice. The skills required are most effectively taught and practiced on live work.

**Special Projects I, II, and III**

Course #45470677/45470678/45470679

Open to grades 11-12

*Prerequisite: Consent of instructor*

These courses are designed to help students satisfactorily complete collision repair tasks or to enhance their skills in the occupational area.

## **Construction Carpentry**

**Introduction to Construction**

Course

#45460201 Open

to grades 10-11-

12

This course is the introduction to the construction carpentry industry. The class will emphasize safe and proper methods of operation using hand tools, portable power tools, and stationary power tools in the construction industry.

**Ceiling and Roof Framing**

Course #45460213

Open to grades 10-11-12

This course covers roof types and combinations of roof types used in the construction industry. The emphasis of this course is on layout, cutting and installing ceiling joists, rafters, roof sheathing, and roof coverings for both commercial and residential construction.

**Floor and Wall Framing**

Course #45460212

Open to grades 10-11-12

This course will have the student practice floor framing, layout, and construction of floor frames. Cutting and installing floor and wall framing members according to plans and specifications will also be practiced.

**Site Layout and Foundations**

Course #45460214

Open to grades 10-11-12

This course will have the students prepare materials, calculate the cost for a building site, and layout a site with a transit, locating property lines and corners. Students calculate the amount of concrete needed for footing and foundation walls and construct different types of foundations and forms.

**Special Topic**

Course #45460298

Open to grades 11-12

*Prerequisite: Consent of instructor*

This course is designed for students to satisfactorily complete construction carpentry tasks or to enhance their skills in the occupational area.

## Welding

**Blue Print Reading for Welding**

Course #45480505

Open to grades 10-11-12

This course provides a study of occupationally specific prints for welders.

Advanced study of multi-view drawing, assembly drawings, datum dimensions, numerical control drawings, sheet metal prints, castings and forgings, instrumentation and control dimensioning and tolerance and use of reference materials and books are included. Occupational specifics including welding drawings, symbols, joint types, grooves, pipe welding symbols, testing symbols, and specifications interpretations are stressed.

**Shielded Metal Arc Welding (SMAW)**

Course #45480521

Open to grades 10-11-12

This course is designed for students to learn the identification, inspection, and maintenance of SMAW electrodes; principles of SMAW; the effects of variables on the SMAW process to weld plate and pipe; and metallurgy.

**Special Problems**

Course #445480595

Open to grades 11-12

*Prerequisite: Consent of instructor*

This course is designed for students to satisfactorily complete welding tasks or to enhance their skills in the occupational area.

**Cutting Processes**

Course #45480501

Open to grades 10-11-12

This course is for students to obtain a working knowledge of various cutting processes used by the welding industry. Skills will include, but are not limited to: safety, theory of operation, setup and operating terms and definitions, identifications, evaluation, repair and prevention of discontinuities of cut surfaces. Also included are oxo-fuel cutting, plasma arc cutting, exothermic cutting, air carbon arc cutting, shield met car cutting and mechanical cutting processes.

**Gas Metal Arc Welding**

Course #45480522

Open to grades 10-11-12

This course covers identifications, inspection and maintenance of GMAW machines, identification, selection and storage of GMAW electrodes; principles of GMAW; and the effects of variables on the GMAW process. Both ferrous and non-ferrous metals will be covered, as well as various joint designs on plate in all positions.