

2025-2026

THE HAWKINATOR

Hillsboro High School

Academic and Career Planning Guide

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HILLSBORO HIGH SCHOOL

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GRADUATION REQUIREMENTS

(CLASS OF 2025-2027 ONLY)

All policies are under constant review and are subject to change pending approval by the Hillsboro R-3 Board of Education.

24 Units of Credit in the Following Areas

4.0 English

Required Courses: English I and II.

3.0 Mathematics

Required Courses: Algebra I.

3.0 Science

Required Courses: Biology I.

3.0 Social Studies

Required Courses: American Studies, World History, Civics

*students must pass U.S and Missouri Constitution Exams and complete 30 hours of community service within these courses.

1.0 Fine Arts

Required Courses: Any from Music, Performing Arts or Visual Arts.

1.5 Practical Arts

Required Courses: Any from Business, Industrial Arts, Family and Consumer Science or Project Lead the Way.

1.5 Physical Education

0.5 Health

State Requirements: Drug education and CPR certification included.

0.5 Personal Finance

6.0 Electives

Required Courses: Any credit bearing course not specifically required for graduation.

- English I and Algebra I credit may be earned during Junior High with a grade of "D" or better.

COLLEGE PREPARATORY REQUIREMENTS

(CLASS OF 2025-2027 ONLY)

25 Units of Credit in the Following Areas

4.0 English

Required Courses: English I and II, and must complete Advanced Composition and Advanced Critical Writing

4.0 Mathematics

Required Courses: Algebra I and 3 more units above the Algebra I level

4.0 Science

Required Courses: Biology I and Chemistry I plus 2 more units of upper level Science

3.0 Social Studies

Required Courses: American Studies, World History, Civics
*students must pass U.S and Missouri Constitution Exams and complete 30 hours of community service within these courses

1.0 Fine Arts

Required Courses: Any from Music, Performing Arts or Visual Arts

1.5 Practical Arts

Required Courses: Any from Business, Industrial Arts, Family and Consumer Science or Project Lead the Way
* $\frac{1}{2}$ unit must be completed in microcomputer applications

1.5 Physical Education

0.5 Health

State Requirements: Drug education and CPR certification included

0.5 Personal Finance

2.0 Foreign Language

Requirement: the 2 units must be in the same language

3.0 Electives

Required Courses: Any credit bearing course not specifically required for graduation

- English I and Algebra I credit may be earned during Junior High with a grade of "D" or better.

GRADUATION REQUIREMENTS

(STARTING WITH THE CLASS OF 2028 and beyond)

All policies are under constant review and are subject to change pending approval by the Hillsboro R-3 Board of Education.

24 Units of Credit in the Following Areas

4.0 English

Required Courses: English I and II.

3.0 Mathematics

Required Courses: Algebra I.

3.0 Science

Required Courses: Biology I.

3.0 Social Studies

Required Courses: American Studies, World History, Civics

*students must pass U.S and Missouri Constitution Exams and complete 30 hours of community service within these courses.

1.0 Fine Arts

Required Courses: Any from Music, Performing Arts or Visual Arts.

1.0 Practical Arts

Required Courses: Any from Business, Industrial Arts, Family and Consumer Science or Project Lead the Way.

1.0 Physical Education

0.5 Health

State Requirements: Drug education and CPR certification included.

0.5 Personal Finance

7.0 Electives

Required Courses: Any credit bearing course not specifically required for graduation.

- English I and Algebra I credit may be earned during Junior High.

DIPLOMA PLUS REQUIREMENTS

(STARTING WITH THE CLASS OF 2028 and beyond)

24 Units of Credit in the Following Areas

4.0 English

Required Courses: English I and II.

4.0 Mathematics

Required Courses: Algebra I.

3.0 Science

Required Courses: Biology I.

3.0 Social Studies

Required Courses: American Studies, World History, Civics

*students must pass U.S and Missouri Constitution Exams and complete 30 hours of community service within these courses.

1.0 Fine Arts

Required Courses: Any from Music, Performing Arts or Visual Arts.

1.0 Practical Arts

Required Courses: Any from Business, Industrial Arts, Family and Consumer Science or Project Lead the Way.

1.0 Physical Education

0.5 Health

State Requirements: Drug education and CPR certification included.

0.5 Personal Finance

6.0 Electives

Required Courses: 3 of these elective credits must be a combination of core content areas in English, Math, Science, Social Studies or Foreign Language (2 credits of the same foreign language are strongly recommended)

- English I and Algebra I credit may be earned during Junior High.
- Students must have a cumulative GPA of 3.0 by graduation.

LATIN HONORS HILLSBORO HIGH SCHOOL

(beginning with the class of 2022)

Summa Cum Laude

- GPA 4.1 and above
- ACT minimum of 30
- College prep course requirements

Magna Cum Laude

- GPA 4.0 minimum
- ACT minimum 27
- College prep course requirements

Cum Laude

- GPA minimum 3.8
- ACT minimum 24
- College prep course requirements

**** Requirements to be met prior to graduation**

**** ACT cut-off is April of Senior year. (if HHS does not officially receive the April ACT scores prior to graduation, it will be up to the student to show proof of his/her score report) This is not a super score.**

COLLEGE ATHLETICS

Eligibility for college sports is determined by one of three governing bodies: National Collegiate Athletic Association (NCAA), National Association of Intercollegiate Athletics (NAIA), and National Junior College Athletic Association (NJCAA). Each organization sets rules regarding eligibility that their member universities and schools enforce. Here is a breakdown for each organization: For additional information refer to the HHS Athletic Guide.

NCAA (Division I and II)

Register at NCAA www.eligibilitycenter.org at the beginning of their Varsity participation or their Junior year.

Take the ACT or SAT and request scores to be sent to NCAA (code 9999). These scores are based on a sliding scale for students enrolling

Complete **16** core courses from the NCAA approved list including:

- **4** English, **3** Math (Algebra I or higher), **2** Science, **2** Social Studies, **4** additional years in English, Math, Natural/Physical Science, Social Science, Foreign Language, Comparative Religion, or Philosophy and **1** additional English, Math or Science. **(All core regular education classes at HHS are NCAA approved with the exception of Applied Language Arts and Agricultural Science.)**
- Complete 10 core courses (in English, math or natural science) before the start of your seventh semester. Once you begin seventh semester, you may not repeat or replace any of those 10 courses for GPA improvement.
- Earn at least a 2.3 GPA in your core courses which is calculated by the NCAA using these 16 core courses.
- Complete HHS form and request transcripts to be uploaded to NCAA website.

NAIA

- Register at www.playnaia.org at the beginning of their Senior year.
- Cumulative GPA of 2.0 on a 4.0 scale, ACT of 18 or SAT of 860 (Critical Reading & Math), and Class rank in the top 50% of graduating class.
- Take the ACT or SAT and request scores to be sent to NAIA (code 9876).
- Complete HHS form and request transcripts to be mailed to NAIA website.
- NAIA **does not** have specific course requirements for high school students.

NJCAA

- Complete the Eligibility Affidavit (see their high school counselor).
- NJCAA **does not** require an ACT/SAT score or specific courses for high school students.

EARLY COLLEGE OPPORTUNITIES

DUAL CREDIT COURSES

Hillsboro High School offers various opportunities for students to receive both college and high school credit while taking classes at HHS. **At graduation, seniors who have completed dual credit/enrollment courses will have to request transcripts from the college or university that issued the credit.**

Jefferson College:

ENG101	English Composition I
ENG102	English Composition II
BIO101	General Biology
BIO109	Ecology
MATH134	College Algebra
MATH141	Precalculus
MTH132	Introductory Statistics
MTH180	Calculus I
EDU105	Exploring Education
EDU205	Educational Technology
ENG 105	Poetry and Short Story
ENG 106	Drama and Short Novel
HST 103	U.S. History

Hillsboro High School:

1303A	Advanced Composition
1304B	Advanced Critical Writing
4303A/B	College Biology
4311A/B	Ecology Environ Conserv
3400A/B	College Algebra
3301A/B	Pre-Calculus
3202A/B	Statistics
3302A/B	Calculus I
6281A	Practicum in Teaching Pathways
6281B	Career Pathways for Teaching
1401A	AP Lit-Poetry & Short Story
1402B	AP Lit-Drama & Short Novel
2400A	College American History

University of Missouri, St. Louis:

BIOL1131	Human Phys. & Anat. I
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Hillsboro High School:

4401A/B	Anatomy & Physiology
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Southeast Missouri State University:

PY101	Psych. Perspectives on Human Behavior
SO102	Sociology

Hillsboro High School:

2308E	Psych. Perspectives on Human Behavior
2410E	College Sociology

Saint Louis University:

SOC260	Intro to Forensic Science
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Hillsboro High School:

4306B	Forensic Science
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*There may be instances where students' wish to take a college course that is not offered on our campus. In this case, they may be able to be dually enrolled in HHS and Jefferson College to earn high school credit for college courses taken through dual enrollment. Classes are often held online, enabling students to remain active in their high school activities while completing college coursework. Students will be given time built into their schedule to complete these courses and are responsible for any costs associated with these courses. Students wanting to inquire about these opportunities should e-mail Mrs. Dix in the Counseling Office at: dix_sarah@hsdr3.org

JEFFCO AREA TECHNICAL SCHOOL

Students in grades 10 – 12 have the opportunity to participate in Jefferson Colleges Area Technical School (ATS) programs. These programs help prepare students to enter a career field while still in high school. Students accepted into the program will typically attend classes at Jefferson College during (AM) 2nd – 4th hours or (PM) 5th – 7th hours. Transportation is provided by the district on days HHS is in session.

Acceptance into the program is competitive. All applications received from county schools are scored and admittance is based on top scores. All tuition is paid for by the school district and free to the student. There may be additional costs to the student once accepted into a program.

College credit can be earned through many of these programs: Automotive Technology (12), Biomedical Sciences (10-12), Building Repair Technology*(10-12), Precision Machining Technology (12), Culinary Arts (10-12), Digital Media Technology (10-12), Early Childhood and Elementary Education (11-12), Fire Science (12), Health Services* (11-12), Health Information Technology (12), HVAC (11-12), Metal Fabrication*(10-12), Residential Carpentry* (10-12), Advanced Residential Carpentry and Welding Technology (11-12), Emergency Medical Technology (12). **Programs with an * denotes enrollment in an Applied Math and/or Communication Arts class along with their vocational content.**

For more information on the Area Technical School, visit www.jeffco.edu/ats or contact Sarah Perry, ATS Recruiter and Placement Coordinator, at sperry1@jeffco.edu,

EARLY COLLEGE ACADEMY

This is an opportunity for students to earn an associates degree or 42 general college credit requirements while in high school. The Hillsboro Board of Education has agreed to enter into a 1/3, 1/3, 1/3 partnership with Jefferson College. The Hillsboro School District will pay 1/3 of the tuition, Jefferson College will scholarship 1/3 of the tuition and the families will be responsible for the remaining 1/3 of tuition and textbooks.

The Early College Academy will begin a short summer term the semester before junior year and the first full semester will begin junior year and continue through senior year. Courses will be delivered through a combination of online and Hillsboro High on campus coursework at HHS. Classes will be held throughout the day and integrated into the students' current high school schedule. Admission will be a competitive process with ten students from each graduating class being accepted into the program. Invitations to apply to the program will be given to qualifying Sophomores in January of the Sophomore year. Questions regarding this can go to Sarah Dix, dix_sarah@hsdr3.org.

MISSOURI HIGHER EDUCATION CORE TRANSFER CURRICULUM (CORE 42)

The Missouri Higher Education Core Transfer Curriculum, known as CORE 42, is a framework for general education that all Missouri public two-and four-year institutions of higher education will adopt effective for the 2018-2019 academic year. The goal of the CORE 42 is to facilitate the seamless transfer of academic credits. The completion of the CORE 42 at any public institution of higher education will transfer to every other public institution of higher education in the state and substitute for the receiving institution's general education requirement. Individual courses that comprise the CORE 42 are guaranteed to transfer one-to-one among all public (and participating independent) colleges and universities in Missouri.

The framework for Missouri's CORE 42 is designed for students to obtain the basic competencies of Valuing, Managing Information, Communicating, and Higher-Order Thinking through the completion of at least 42-semester hours distributed across the broad Knowledge Areas of Communications, Humanities & Fine Arts, Natural & Mathematical Sciences, and Social & Behavioral Sciences. Students obtain the competencies through completion of the CORE 42 in its entirety.

Current Hillsboro High School Dual Credit courses that are Missouri Core 42 approved are:

- Advanced Composition - MOTR ENGL 100
- Advanced Critical Writing - MOTR ENGL 102
- College Biology - MOTR BIOL 100L
- AP Literature - MOTR LITR 100
- College Algebra - MOTR MATH 130
- Pre Calculus - MOTR MATH 150
- Statistics - MOTR MATH 110
- College Psychology- MOTR PSYC 100
- College Sociology- MOTR SOCI 101
- College American History- MOTR HIST 101
- AP Lit-Poetry and Short Story- MOTR LITR 100
- AP Lit-Drama and Short Novel- MOTR LITR 100

WEIGHTED COURSES

All dual credit and advanced placement courses are “weighted” at Hillsboro High School. Weighted courses carry a higher grade point value than other non-weighted courses. Grades are weighted with the following point values: A=5 B=4 C=3 D=1 F=0

College Credit vs. High School Credit

All dual enrollment and dual credit classes count for both high school credit and college credit. For high school credit the following conversion is used:

3 hour college credit class offered in one semester =0.5 credit in high school
4 hour college credit class offered in one semester=0.75 credit in high school
5 hour college credit class offered in one semester= 1.0 credit in high school

ADVANCED PLACEMENT COURSES (AP)

Advanced Placement courses offer students the opportunity to do college-level work while still in high school. They are available to qualified, academically oriented students in the 11th and 12th grades. Upon completion of the course, students may pay for and take the nationally administered examination in May. According to their performance on the exam, they may receive college credit hours for each one taken. This makes it possible for a student who is successful on the exam(s) and in the course(s) to enter college at an advanced level. Most Missouri colleges and universities award college credit to students qualifying by AP examinations. The examination contains a multiple-choice and an essay section. Each test takes about three hours to complete. Each exam receives an overall grade on a five-point scale: 1-No recommendation, 2-Possible qualified, 3-Qualified, 4-Well qualified and 5-Extremely qualified. Hillsboro High School offers these opportunities in AP Lit/English and AP Studio Art.

CHANGING/DROPPING COURSES

The high school administration encourages parents, counselors, and classroom teachers to become active participants in course selections. We feel all participants should provide input so the student makes an informed decision aligning with their Individual Career Academic Plan (ICAP). It is important to understand that the course selections made by our students directly determine our teacher assignments and budget decisions each year. It is for these reasons we wish to stress to our students and parents the necessity to consider all selections final once the schedule is set.

However, we also know that there will be exceptions to the policy of no schedule changing after the schedule has been set. Schedule changes will be made by the counselor for the following reasons:

1. An error made by a counselor or the computer.
2. The failure to meet a prerequisite for a course.
3. The failure to pass a course required for graduation.
4. An administrative decision in the best interest of the student and the school.

POLICY AND PROCEDURE FOR WITHDRAWING FROM CLASS

1. The student may discuss dropping a class within the first 7 days without penalty. A conference with the parent, teacher, administrator, and a counselor may be required.
2. Classes dropped after 10 days of a new semester will result in a grade of "F" for the semester.

****A schedule change form must be filled out and signed by the parents, teachers and the counselor before a drop/change will be made for a core area course.***

REPEATING A COURSE

1. In general, if a student has successfully completed a class, that student may not take that class again for credit. Courses which may be repeated are denoted by an * next to the title.
2. If a student fails a required course, they must repeat that course until successful completion.

A+ SCHOLARSHIP PROGRAM

The A+ program is funded by Missouri Legislature. The funds available for this program are based on the annual state revenue. The Missouri A+ Schools Program requires Hillsboro High School to guide students in a rigorous program of academic and technical education that will prepare them for the workplace, post-secondary vocational-technical training, or college.

A student who qualifies according to the following criteria is eligible for state reimbursed tuition and general fees at a Missouri public community college or vocational-technical school. The Missouri Legislature sets the guidelines and tuition money amounts to be paid to students. Current guidelines are as follows and may change.

Potential A+ students enter into a written agreement with Hillsboro High School that requires the student to:

- Attend a designated A+ high school for 2 years prior to graduation.
- Graduate with an overall grade point average of 2.5 or higher on a 4.0 scale.
- Have at least a 95% attendance record overall for grades 9-12.
- Achieve a score of proficient or advanced on the Algebra I end of course exam.
- Perform at least 50 hours of unpaid tutoring or mentoring. (****this must be completed on Hillsboro School District campus as assigned by the A+ Coordinator.***)
- Maintain a record of good citizenship and avoid the unlawful use of drugs and/or alcohol.
- Make a documented, good faith effort to secure available federal post-secondary student financial assistance funds that do not require re-payment. (complete the FASFA application, which can be filed electronically at <http://www.fafsa.ed.gov/>)
- Male students must register with the Selective Service.

ACT TESTING

An ACT test score is required by most four year colleges and universities as a part of their entrance requirements. Traditionally, community colleges do not require ACT scores but do require some type of entrance test.

Traditionally, there have been four parts to the test: English, Math, Reading, and Science. In Fall of 2025, the Science portion will become optional and offered at an additional fee. The test results include individual scores for each section and a composite score. Parents and students should become familiar with the minimum score each college or university requires. Individual programs such as nursing or physical therapy may require a different minimum score than the general entrance requirements.

ACT Tests are given 7 times a year and require advance registration and payment. Information regarding test dates and other information is in the counseling office or at www.act.org. Registration is to be completed online. Students should be aware of registration deadlines so that penalty fees are not imposed. Students meeting free or reduced lunch guidelines may be entitled to free ACT tests. See your school counselor for the waiver.

END OF COURSE EXAMS (EOC'S)

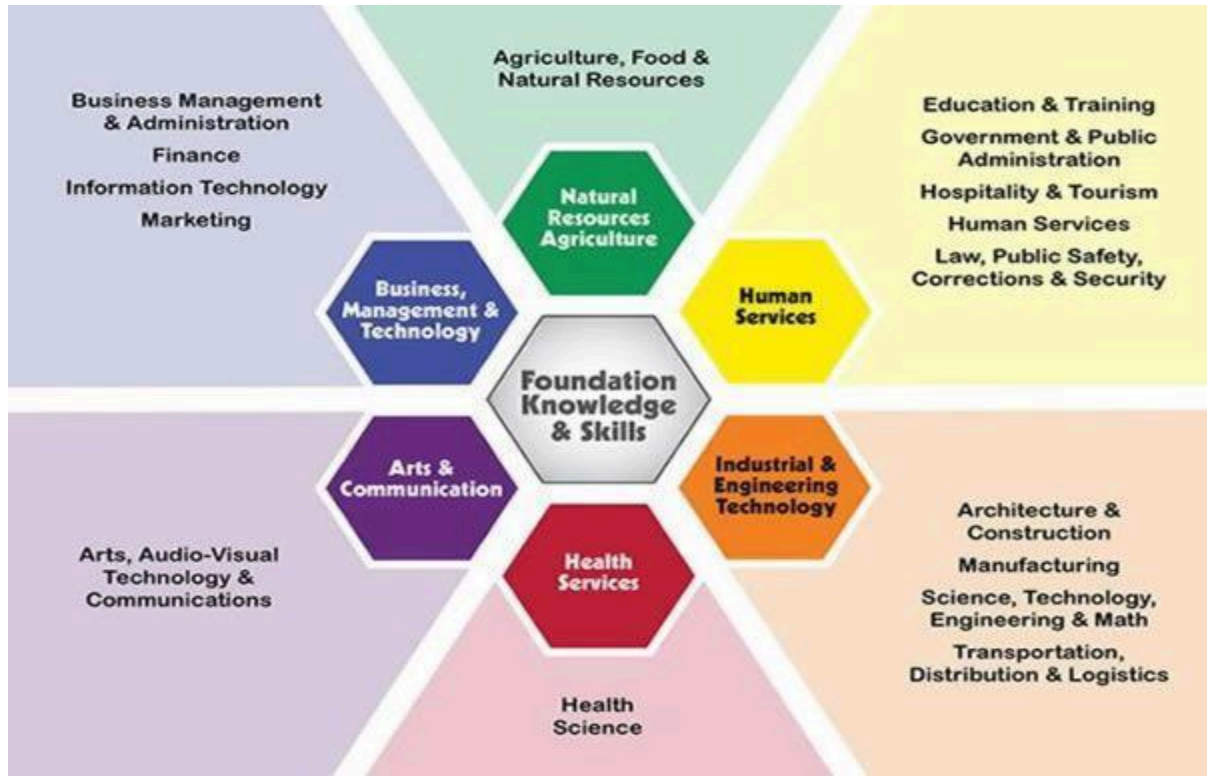
All students will be required to take an exam in each of the four core areas (Biology, English II, Algebra I and Civics) as a state of Missouri high school graduation requirement. EOC grades are mandated to be a specific part of the classroom grade. Results of tests will be used to determine the Adequate Yearly Progress (AYP) a school makes as a part of the federal No Child Left Behind law. Also, students must achieve a "proficient" score on the EOC for Algebra I is directly tied to qualifying for the A+ program. IT IS ESSENTIAL that students and parents realize the importance of these End of Course exams for the student and for the school.

SCHOLARSHIP INFORMATION

Parents and students who wish to receive information about scholarships can come to the counseling office or access the information on our webpage. Announcements are made to students at school when scholarship applications come in and forms are available in the counseling office. Students and parents are encouraged to work closely with the College and Career counselor in the scholarship process.

CAREER PATHS

Students are encouraged to pick a career path and career cluster for their future during high school. There are 6 Career Paths and 16 Career Clusters that fall within the Career Paths. Identifying a Career Path and cluster will help students narrow their academic and educational plans with a future focus.



CAREER PATH EXAMPLES

1. Arts and Communications (Artistic “Creators”)

Clusters: Arts, Audio/Visual Technology & Communications

Occupations Include: Architecture, Interior Design, Creative Writing, Fashion Design, Film, Fine Arts, Graphic Design, Journalism, Languages, Radio, TV, Advertising, Public Relations

Recommended Electives: Computer Applications, Choir, Band, Art Fundamentals, Drawing, Painting, Pottery, Sculpture, Cartoon and Comic Drawing, Foreign Language, Web Design, Radio and TV and Area Technical School (ATS) programs in Digital Media and Culinary Arts

Clubs & Activities: Drama Club, FCCLA, Speech & Debate, Yearbook, Art Club

Possible Volunteer Work: Community Theatre, Church choir, Radio/TV station, write for local newspaper, sing National Anthem at events.

2. Business Management and Technology (Conventional “Organizers”)

Clusters: Information Technology, Finance, and Marketing

Occupations Include: Sales, Entrepreneurship, Marketing, Computers, Finance, Accounting, Personnel, Economics, and Management

Recommended Electives: Micro Computer Applications, Accounting, Marketing, Personal Finance, Business Management, Web Design and Business Communications.

Clubs & Activities: FBLA

Possible Volunteer Work: Junior Achievement, Sales projects for clubs, raise money for charitable causes.

3. Health Services (Investigative/Social “Thinkers/Helpers”)

Clusters: Health Sciences

Occupations Include: Related to the promotion of health and the treatment of disease. Research, Prevention, Treatment, and related Technologies

Recommended Electives: Anatomy/Physiology, Biology, Chemistry, Psychology, Microcomputer Applications, Strength and Conditioning, Health, Contemporary Issues, Area Technical School (ATS) programs Health Services

Possible Volunteer Work: Hospital volunteer, Red Cross, Donate blood, Food Service Advisory Board member, Nurse/Pharmacist for a day.

4. Human Services (Social “Helpers”)

Clusters: Education & Training, Government & Public Administration, Hospitality & Tourism, Law/Public Safety/Corrections/Security

Occupations Include: Related to Economic, Political, and Social systems, Education, Government, Law & Law Enforcement, Leisure & Recreation, Military, Religion, Child Care, Social Services and Personal Services

Recommended Electives: Microcomputer Applications, Child Development, Foods & Nutrition, Psychology, Civics, Sociology, Strength and Conditioning, Contemporary Issues, American History, and Health

Clubs & Activities: Sports, Student Council, Class Officer, Wing Team, FCA, A+ Program

Possible Volunteer Work: Work for political campaigns, Day Care, Teacher Aide, YMCA, Scouts, Junior Achievement, A+ Tutor.

5. Industrial & Engineering Technology (“Doers/Thinkers/Organizers”)

Clusters: Architecture/Construction, Manufacturing, Science/Technology/Engineering/Math, Transportation, Distribution & Logistics

Occupations Include: Related to Design, Develop, Install, and Maintain Physical Systems, Engineering, Manufacturing, Construction, Service, and related Technicians

Recommended Electives: Microcomputer Applications, Geometry, Physics, Beginning Woodworking, Art, General Shop, PLTW Engineering Classes and Jefferson College programs in Automotive Technology, Precision Machining Technology, Welding, Residential Carpentry

Clubs & Activities: Yearbook

Possible Volunteer Work: Maintenance and Repairing Small Appliances, automobiles, or computers.

6. Natural Resources (Realistic “Doers”)

Clusters: Agriculture, Food, Natural Resources

Occupations Include: Related to Agriculture, Environment, and Natural Resources. Agriculture Science, Environmental Science, Earth Science, Fisheries, Forestry, Horticulture and Wildlife

Recommended Electives: Microcomputer Applications, College Biology, Chemistry, Agricultural Science I- IV, Zoology, Environmental Science, Coed Outdoor Education

Clubs & Activities: Outdoor Activities

Possible Volunteer Work: Adopt a Highway or River, Florist, Parks, Botanical Gardens, Zoo, Veterinary, Animal Shelter

MOCAP

Senate Bill 603 (2018) and House Bill 1552 (2022) created new requirements for local school districts related to virtual education and access to these courses. The Hillsboro School District has developed a system in order to be in compliance with these new laws.

Students may now enroll in the Missouri Course Access and Virtual School Program (MOCAP) providers AFTER initiating contact with their resident district. The full-time virtual providers hosted by public school districts are considered the attendance centers for their local education agencies (LEA's). A full-time student is now defined as a student currently enrolled in the equivalent of six credits per term.

Full time virtual students will be withdrawn from the Hillsboro School District and enrolled in the host district of the virtual program. Students will be awarded their diploma by the virtual program's host district.

The Missouri State High School Activities Association (MSHSAA)'s by-laws govern sports and activities.

If you would like to consider enrollment in the MOCAP virtual learning program for your child, please complete the steps below:

- Consult with your child's school counselor to discuss available opportunities for in-person instruction.
- If virtual education is determined to be the best learning option for the student, the guardian will enroll their child with the host district of the virtual provider.
- Once a student has been accepted by a full time virtual provider, Hillsboro will disenroll the student and the student will be enrolled by the host district.
- Students will be awarded their diploma by the host district of the virtual provider

For further information, click on the following link:

https://mocap.mo.gov/documents/HB_1552_Section_161_FAQ.pdf

FLEX EDUCATION

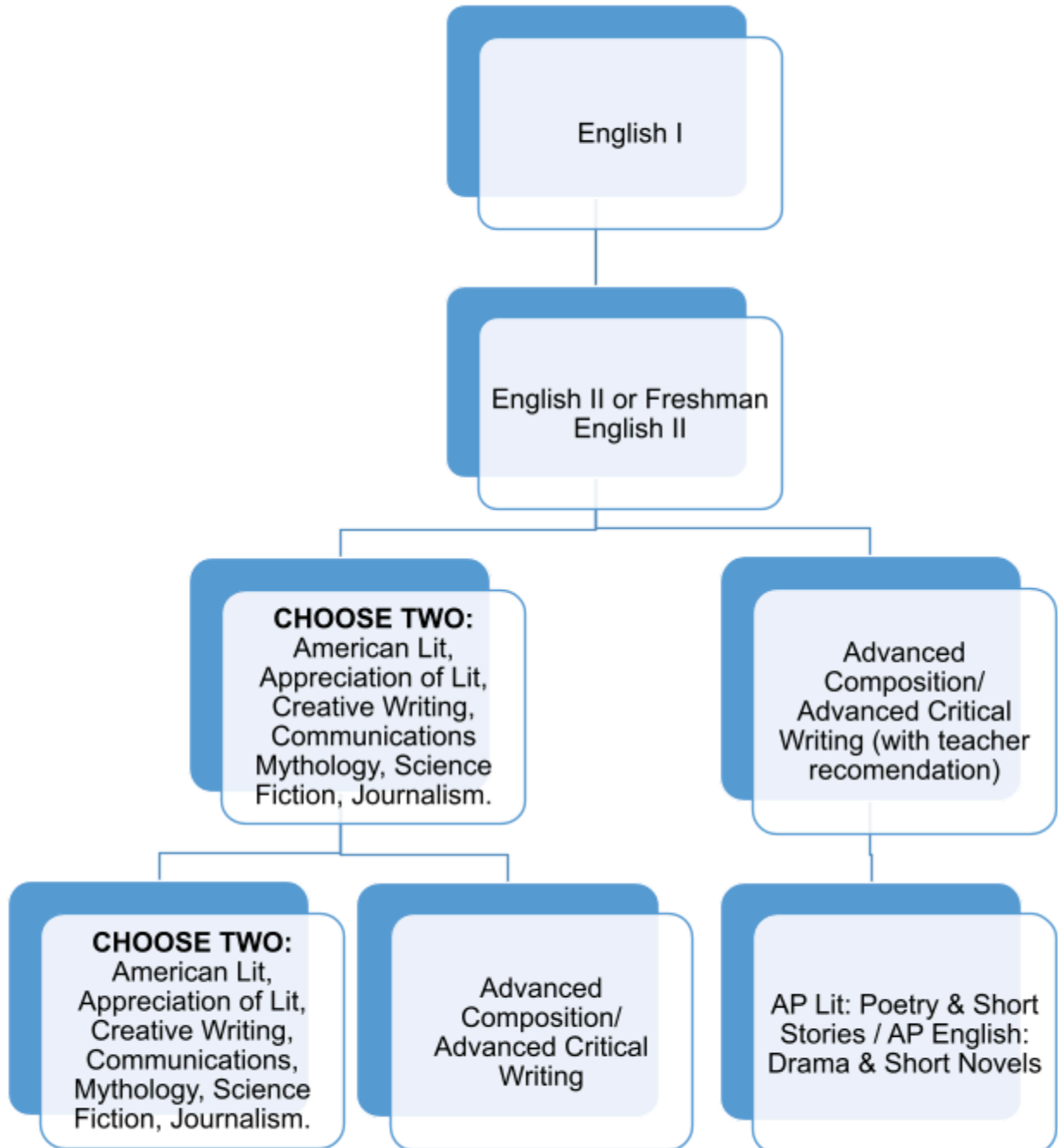
Hillsboro High School in cooperation with the Missouri School Flex Program (Section 160.539 RSMo) affords students the opportunity to benefit from an alternative delivery system in order to pursue a timely graduation through off-campus employment, schooling or experiences that directly align with students' Individual Career Academic Plan.

Participants in this program must:

- Attend school for at least two instructional hours per day and be earning credit in classes needed for graduation.
- Maintain a 95% attendance rate (Must have a minimum of 90% cumulative attendance to enter the program and then maintain 95% while in the program). If this rate falls below they will not be allowed to continue in the program the next term.
- Avoid suspension or expulsion.
- Provide evidence of enrollment and attendance at a college or technical school or evidence of employment that is aligned to the student's Individual Career Academic Plan (ICAP).
- All components of the plan must align to the student's (formerly known as a Personal Plan of Study), which has been developed by the school district with the student.
- Students must turn in a weekly time sheet for all employment with hours listed and signed off on. (5 hours of work per 1 class hour of FLEX) This can be turned in by google classroom upload or in person.

***Students interested in enrolling in the FLEX program should contact their School Counselor to set up a meeting with their parents and administration to discuss eligibility and program specifics.**

LANGUAGE ARTS PATHWAYS



LANGUAGE ARTS

1100A/B English I (required)

Grade: 9

Credit: 1 unit

Prerequisite: None

Students in this course will read and evaluate a variety of genres. Students will continue to define literary terms and analyze their use in literature. Students will employ the writing process to develop paragraphs and essays. Students will decode vocabulary using context clues. Students will intensively study grammar. Students will evaluate and synthesize informational text while studying the basics of communication.

1200A/B English II (required)

Grade: 10 or (9th by approval) **Credit:** 1 unit

Prerequisite: Passing grade in English I

Students in this course will expand their knowledge and skills in reading, writing, speaking, and listening from English IA/IB. They will read and/or evaluate a variety of genres. Students will use the writing process to compose writings, study vocabulary and grammar, and aide in the completion of a research project.

1301E American Literature

Grade: 10-12

Credit: ½ unit

Prerequisite: English I and II

American Literature is considered a college preparatory class for sophomores, juniors and seniors. Students will continue to expand their knowledge and skills in reading, writing, speaking, and listening. Students will read and/or evaluate a variety of fiction and non-fiction from American authors. Students will study vocabulary and use the writing process to compose a variety of writing. Students will conduct, evaluate, and illustrate research.

1202E Communications

Grade: 11-12

Credit: ½ unit

Prerequisite: English I and II

This semester course focuses on communication and language skills and they apply at a college or in the workplace. It is designed for students interested in enhancing reading, writing, research, speaking and listening skills. Students will also utilize critical reading and thinking skills to work individually and in groups to solve post secondary related problems. Students will do this while using technology to gather, organize and effectively communicate information.

1406E Creative Writing

Grade: 11-12

Credit: ½ unit

Prerequisite: English I and II

This semester course provides students with ample opportunities to combine literary creativity with the discipline of written discourse. The concept of using and shaping language to convey ideas, feelings, moods, and visual images is the basis of this course. Students will become familiar with standard literary elements through the reading and student of published prose and poetry and are taught to use those elements in their own writing. Students will use the writing process to compose a variety of writing. Additionally, students will learn strategies for evaluating and responding to their own writing and the writing of their peers.

1306E Appreciation of Literature

Grade: 11-12

Credit: ½ unit

Prerequisite: English I and II

This semester course explores the complex interplay between literature and various mediums including films, television shows, songs, commercials, etc. Selected novels, short stories, and plays are analyzed in relation to various medium versions of the same works in order to gain an understanding of the possibilities – and problems – involved in the transposition, which will help students acquire an appreciation for literature. Students will evaluate a variety of genres and analyze various literary elements through literature and various mediums. Students will use the writing process to compose a variety of writing.

1307E Mythology

Grade: 10-12

Credit: ½ unit

Prerequisite: English I and II

Mythology as Literature is considered a college preparatory class for sophomore, juniors, and seniors. Students will continue to expand their knowledge and skills in reading, writing, speaking, and listening. Students will read and/or evaluate a variety of fiction and non-fiction related to the Mythology of different cultures, including Greek and Roman. Students will also study vocabulary and use the writing process to compose a variety of writing.



1308E Science Fiction**Grade:** 10-12**Credit:** ½ unit**Prerequisite:** English I and II

Science Fiction as Literature is considered a college preparatory class for sophomores, juniors, and seniors. Students will continue to expand their knowledge and skills in reading, writing, speaking, and listening. Students will read and/or evaluate a variety of fiction and non-fiction from authors from the Science Fiction genre. Students will study vocabulary and use the writing process to compose a variety of writing. Students will study the genre in various multi-media comparing and analyzing the use of Science Fiction and the impacts that it has on society.

1303A Adv. Composition/1304B Adv. Critical Writing**Grade:** 10-12**Credit:** ½ **ENG101****English Composition****College Credit:** 3 credit hours at Jefferson College**ENG102 English Composition I****College Credit:** 3 credit hours at Jefferson College

Prerequisite: 3.0 GPA for dual enrollment. 10th graders enrolling need to obtain a letter from their principal or counselor, have parent permission and teacher approval. A grade of "C" or better in **1303A** is required to advance to **1304B**. Students who wish to earn college credit for either course must have ACT English and Reading scores of 18 and must pay fees to Jefferson College in order to earn college credit.

The emphasis of these courses is on thesis development through expository writing. Students will write expository essays based on readings from different literary types and refine research skills by writing an extensive scholarly research paper.

1401A AP Lit: Poetry & Short Stories/**1402B AP English: Drama & Short Novels****Grade:** 11-12**Credit:** 1 unit**ENGL1120 Intro to Literature**

College Credit: 3 Humanity credit hours at UMSL and /or pay for the AP Exam for credit

Prerequisite: 3.0 GPA for dual enrollment, A year of Literature, Advanced Composition AND Advanced Critical Writing. **1401A** must be completed before college credit can be earned in **1402B**. Students must pay fees to UMSL in order to earn college credit.

Students will read a wide range of American, British, and World Literature. The purpose of the class is to increase the students' critical thinking skills and to enrich their literary background. Students will read novels, poetry, plays, and essays and do weekly writing activities. Increased emphasis is placed on students' timed writings with an aim toward passing the Advanced Placement Literature test.

1513E Journalism**Grade:** 11-12**Credit:** ½ unit**Prerequisite:** English I and II

This semester course is designed for students interested in newspaper journalism and developing their skills as a writer. The course explores the contemporary media and the ethical responsibility issues inherent in the press today. Students will learn the fundamentals of news, feature, editorial and sports writing. Copy reading, news style, and editing will be stressed. Students will create numerous original stories using varied structures and writing techniques. Students will also learn to create computer-generated layouts and graphics.

COMMUNICATIONS AND FOREIGN LANGUAGE

1510A Competitive Speech*

Grade: 9-12 **Credit:** ½ unit Fine Art

Prerequisite: Teacher Recommendation

Participants in this class must have passed six (6) credit bearing classes in the previous semester and must be enrolled in at least six (6) credit bearing classes during the current semester.

Students will learn skills in humorous and dramatic interpretation, poetry interpretation, prose reading, duet acting, duo interpretation, storytelling, duet improvisation, and choral reading. Five interscholastic competitions are required after school with an option to compete in more events. If students have commitments to other extracurricular activities (i.e. dance, ball teams, etc.) they will have to make adjustments to complete this requirement.

1110B Public Speaking

Grade: 9-12 **Credit:** ½ unit Practical Art

Prerequisite: None

Students will give informative, persuasive, demonstrative, and entertaining speeches as well as teach the presentation of proposals. Learning to craft and deliver speeches will prepare students for college or careers.

1111A/B Dramatics

Grade: 9-12 **Credit:** 1 unit Fine Art

Prerequisite: None

COST: Materials cost \$20.00 for stage makeup kits.

Students will explore the art of acting as well as the concept of character development through a variety of exercises and assignments. Students will also study the life and work of one playwright. During the second semester emphasis is placed on performance as students further explore character development as well as a variety of acting techniques to improve their craft. Students will also study the life and work of playwrights.

1511A/B Publications

Grade: 9-12 **Credit:** 1 unit Practical Art

Prerequisite: Teacher recommendation required

Students will be staff members on the school yearbook, *The Hawk*. They will learn yearbook production, layout styles, copywriting, marketing, and sales. Work on the yearbook will require time outside of class; students must sign a contract for their grades. Freshmen may take this class with endorsement from the junior high.

1512A/B Radio and Television Production*

Grade: 9-12 **Credit:** 1 unit Fine or Practical Art

Students will first learn to analyze production values like set, lighting, and sound in various commercial, television, and film media. Students will then move to the practical stage of the course, which involves learning how to use video and editing equipment. Students will also write scripts, storyboards, and produce original commercials and news stories. This class requires a considerable amount of out-of-class time for filming. Students will also be responsible for producing the daily announcements, which will include copy or script writing, audio recording, and editing as well as tape several school events per semester.

1150A/B Spanish I

Grade: 10-12 **Credit:** 1 unit

Prerequisite: pass English I

This class introduces the student to reading, writing, and speaking the Spanish language. In addition, the student is introduced to Spanish customs and culture. The course will concentrate on grammar and vocabulary building.

1250A/B Spanish II

Grade: 10-12 **Credit:** 1 unit

Prerequisite: pass Spanish I

Emphasis is placed on broadening the knowledge of the grammatical structure; oral conversation and written composition are stressed.

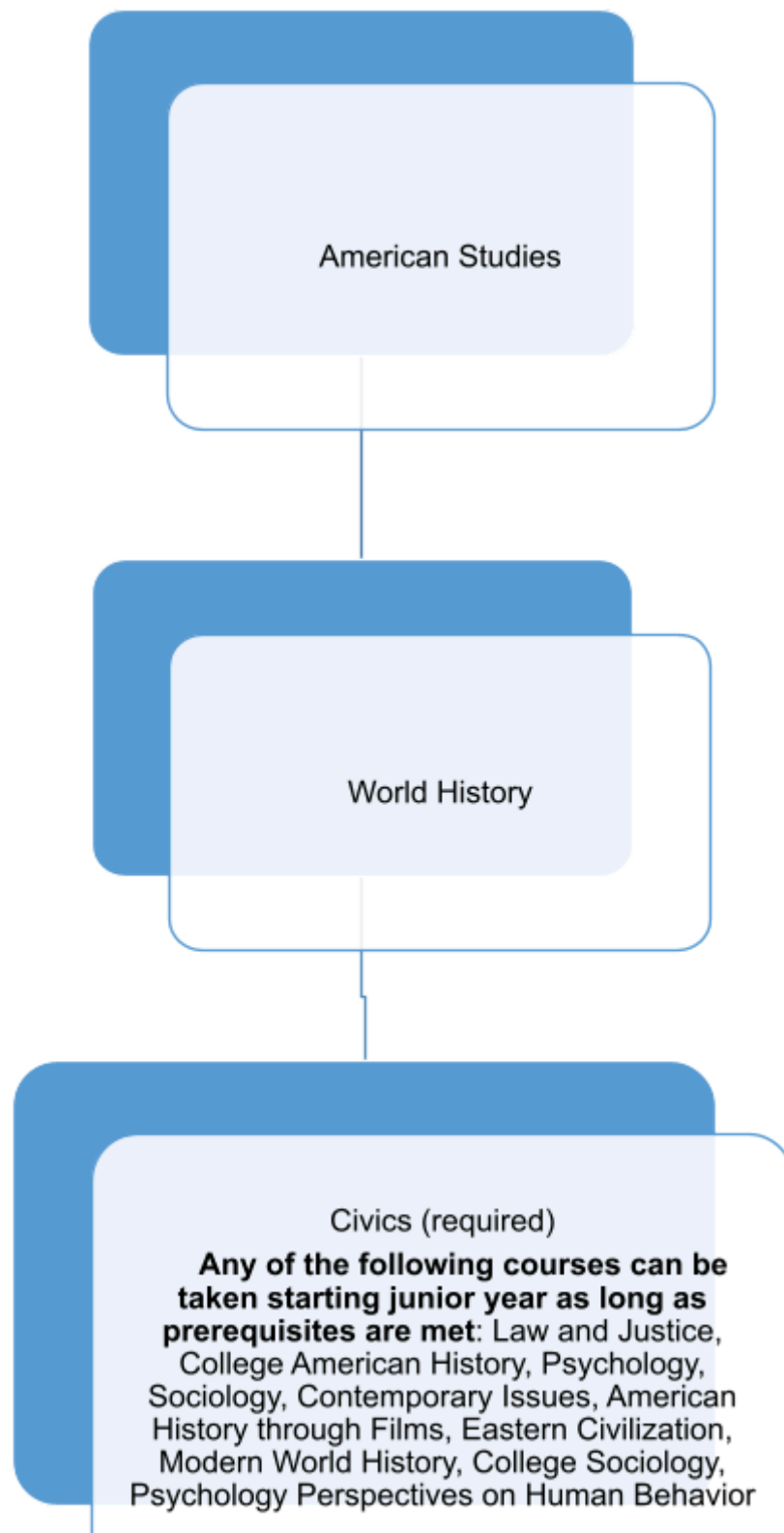
1250A/B Spanish III

Grade: 11-12 **Credit:** 1 unit

Prerequisite: pass Spanish II

There will be a much heavier focus on increasing fluency with speaking and writing, while still adding to grammatical structure and vocabulary.

SOCIAL STUDIES PATHWAYS



SOCIAL STUDIES

2100A/B American Studies (required)

Grade: 9

Credit: 1 unit

Prerequisite: None

This course covers the United States from the 1860's to the present date including: Westward Expansion, Industrialization, Immigration, Manifest Destiny, WWI, the 1920's, the Great Depression and WWII. The students will look at these topics through a historical, geographical and economic standpoint.

2200A/B World History (required)

Grade: 10

Credit: 1 unit

Prerequisite: Passed at least one semester of American Studies to be enrolled in World History.

The students will engage in a journey over 2000 years studying: Ancient Greece and Rome, the Middle Ages, the Renaissance, the Reformation, Exploration, French Revolution and Scientific Revolution, and the Enlightenment, Industrialization, Imperialism, World War I and II, the Cold War, and the contemporary western world.

2300A/B Civics (required)

Grade: 11

Credit: 1 unit

Prerequisite: Passed at least one semester of World History to be enrolled in Civics.

This course provides instruction about institutions, branches, and functions of federal, state, and local government and the electoral process. 30 hours of community service are required as well as passing the U.S. Constitution test.

2302E Contemporary Issues

Grade: 11-12

Credit: ½ unit

Prerequisite: Passed required social studies classes with at least a C.

Designed to allow the students to examine and debate the issues that shape our country and world. This course is very fluid and often shaped by the students' interests and the national/international issues that are in the news at the time of the course. This course utilizes various types of media to allow students to obtain information on vital issues that are important to the world at large. Class discussion, debate and critical thinking/writing will be an important tool of this class.

2304E Law & Justice

Grade: 11-12

Credit: ½ unit

Prerequisite: Passed required social studies classes with at least a C.

This course develops student knowledge and skills necessary to live in our law-saturated society while providing a practical understanding of law and the legal system that will be used in everyday lives. This class also promotes awareness of current issues and controversies related to law; brings about a greater sense of justice, tolerance, and fairness, improve understanding of different roles in the justice system. Due to the nature of this course, student will be challenged to become critical thinkers, problem solvers and effective communicators.

2305E Psychology

Grade: 11-12

Credit: ½ unit

Prerequisite: Passed required social studies classes with at least a C.

This course will study the mind through actions, feelings, thoughts, and other mental behaviors of both humans and animals. Such topics as cognition, conditioning, intelligence, emotion, mental development, and other psychological concepts, will be discussed.

2306E American History Through Films

Grade: 11-12

Credit: ½ unit

Prerequisite: Passed required social studies classes with at least a C.

Students will explore several periods of American History; historical movies such as "Dances with Wolves," "Glory," and "Saving Private Ryan" will be viewed. Scholarly papers and research projects will be required.

2413A Eastern Civilization

Grade: 11 & 12

Credit: ½ unit

Prerequisite: Passed required social studies classes with at least a "C".

The students will explore topics from the beginning of man and civilizations to World War II. The emphasis will be on Asia, Eurasia, the Middle East, and Africa. Students will focus on characteristics of civilizations, rise and decline of empires, and the impact of conflict on these regions. We would like to offer our students a deeper look into Eastern Civilizations in order to put into context our modern world experiences and global interaction.

2414B Modern World History**Grade:** 11 & 12**Credit:** ½ unit**Prerequisite:** Passed World History and Eastern Civilization with a “C”.

The Modern World History course would pick up where both World History and Eastern Civilization leave off-- post World War II-- and continue to contemporary issues. Topic include the Cold War, conflict with different regions of the world, and economic issues. Many of the topics covered in this class would help the students understand the modern world and the challenges faced by different areas of the world in a deeper way.

2410E Sociology**Grade:** 11-12**Credit:** ½ unit**Prerequisite:** Passed required social studies classes with at least a C.

This course looks at sociology or “the study of society”. This class will be taught in a college format requiring research and a thesis style paper. Quizzes and tests will also be required.

2412E College Sociology**Grade:** 11-12**Credit:** ½ unit**SOC102 Sociology****College Credits:** 3 hrs Southeast Missouri State University**Prerequisite:** Passed required social studies classes with at least a C.

This college entry-level Sociology course looks at “the study of society.” This class will be offered through Southeast Missouri State University. This course will include writing assignments, reading assignments, and interactions with other schools through online requirements.

You must be enrolled in this class from Southeast Missouri State University to be enrolled in the high school course. You will receive college credit as well as high school credit. The course will include writing assignments, reading assignments, and interactions with other schools through online requirements.

2400A College American History**Grade:** 12**Credit:** 1/2 unit**US105 Early U.S. History****College Credit:** 3 History credit hours at SEMO

Prerequisite: 3.0 GPA for dual enrollment. Students who wish to earn college credit must have an ACT Reading score of 18 and must pay fees to Southeast Missouri State University.

This college entry-level American History course covers from the period of discovery through Reconstruction.

You must be enrolled in this class from Southeast Missouri State University to be enrolled in the high school course. You will receive college credit as well as high school credit. The course will include writing assignments, reading assignments, and interactions with other schools through online requirements.

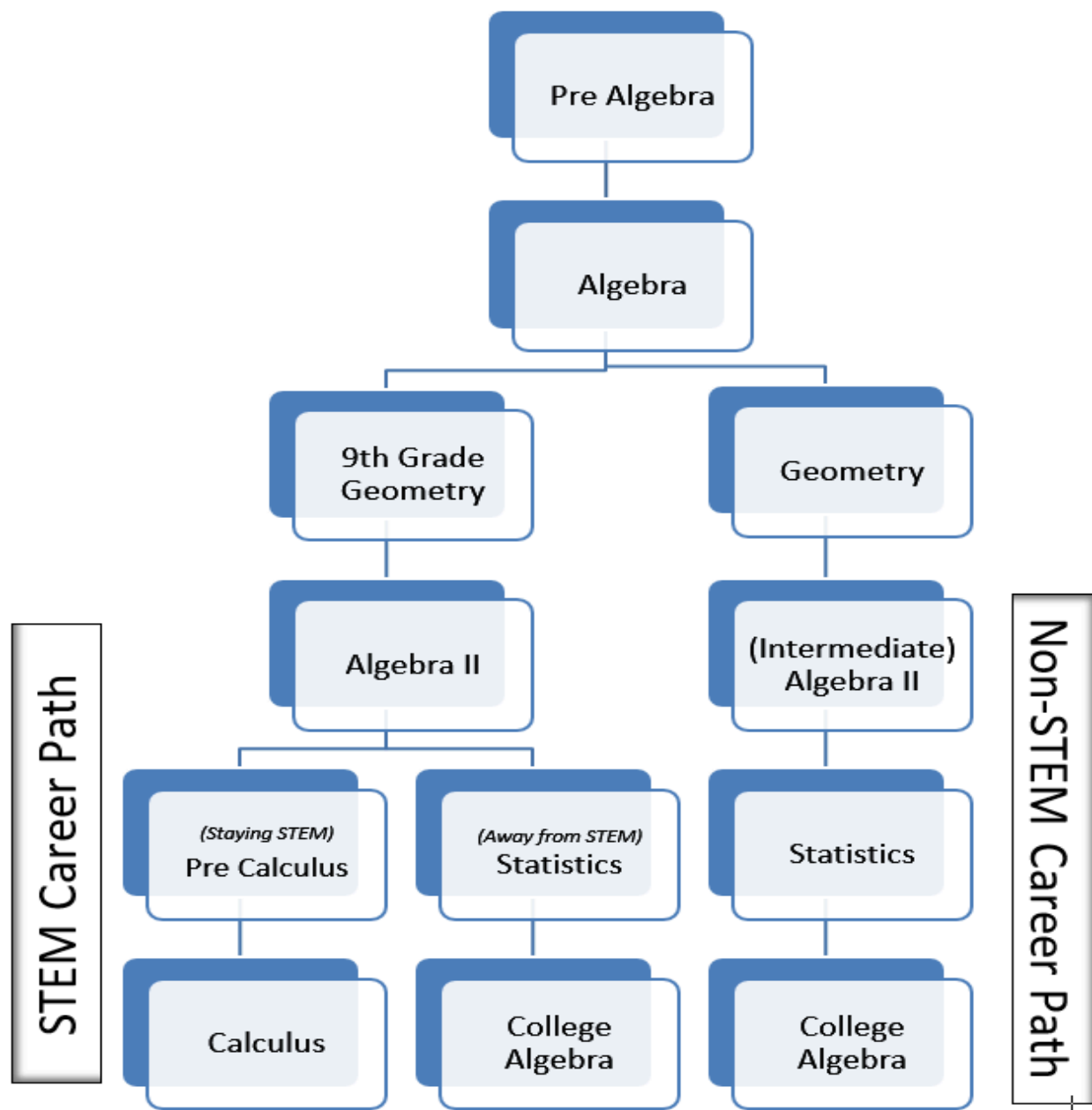
2308E Psychology Perspectives on Human Behavior**Grade:** 11-12**Credit:** ½ unit**PY101 Psy. Perspectives on Human Behavior****College Credits:** 3 hrs Southeast Missouri State University

Prerequisite: Students must have a 3.0 cumulative G.P.A. or higher to enroll. Students with a 2.5-2.99 cumulative G.P.A. may submit a letter of recommendation from a counselor or principal to enroll.

This college entry Psychology course is an examination of human behavior and experiences from a psychological perspective. The course will also apply psychological principles to the understanding of human behavior.

You must be enrolled in this class from Southeast Missouri State University to be enrolled in the high school course. You will receive college credit as well as high school credit. The course will include writing assignments, reading assignments, and interactions with other schools through online requirements.

MATHEMATICS PATHWAYS



MATHEMATICS

3099A/B Pre-Algebra

Grade: 9-10

Credit: 1 unit

Prerequisite: Completion of Math 8 or equivalent.

Reinforces math skills taught in 7th and 8th grade with additional advanced computation including emphasis on Algebraic concepts. Students study fractions, decimals, percent's, positive and negative integers and rational numbers. They will practice using ratios, proportions and solving algebraic equations and solve word problems. Students will practice using math skills to solve real-world problems and think creatively and analytically.

3100A/B Algebra I

Grade: 9-11

Credit: 1 unit

Prerequisite: Completion of Pre-Algebra or teacher recommendation

Algebra I stresses both the structure of algebra and the development of computational problem solving skills. The structure and properties of real numbers are viewed and extended. Problem-solving techniques are developed for various types of problems, equations, inequalities, polynomials, functions, and quadratic equations.

3101A/B Geometry

Grade: 10-12

Credit: 1 unit

Prerequisite: Completion of Algebra I

Geometry helps develop the logical thought process needed to solve more complex problems. Topics covered include the basic geometric figures, parallel lines, planes, polygons, circles and inequalities in geometry. Students will learn to use deductive and inductive reasoning along with applying their algebraic skills and formulas to solve real-world situations. Additional topics will include Geometric proofs and an introduction to trigonometry.

3102A/B Freshmen Geometry

Grade: 9

Credit: 1 unit

Prerequisite: Completion of Algebra I in 8th grade

Freshmen Geometry is a cohort course for students who took Algebra I in junior high. Geometry helps develop the logical thought process needed to solve more complex problems. Topics covered include the basic geometric figures, parallel lines, planes, polygons, circles and inequalities in geometry. Students will learn to use deductive and inductive reasoning along with applying their algebraic skills and formulas to solve real-world situations. Additional topics will include Geometric proofs and an introduction to trigonometry.

3300A/B Intermediate Algebra II

Grade: 10-12

Credit: 1 unit

Prerequisite: Completion of Geometry or Freshmen Geometry

This course provides an extended study of Trigonometry, linear; quadratic; exponential; and logarithmic functions. The course also includes an important study of data analysis using graphing calculators. These traditional topics are integrated and explored through real-world applications. This course is designed to prepare students for Statistics, College Algebra, Physics, and other college level math courses.

3200A/B Algebra II

Grade: 10

Credit: 1 unit

Prerequisite: Completion of Freshmen Geometry

Algebra II will help prepare students for more advanced science and math courses. After a review of Algebra I skills, the student will study quadratic forms, powers, roots, and the functions based on these concepts. Students study polynomial, exponential, and other special functions tools for modeling real-world situations.

3202A/B Statistics

Grade: 11-12

Credit: 1 unit

MA105 Elementary Statistics

College Credit: 3 credit hours from Central Methodist University

Prerequisite: Completion of Algebra II or Intermediate Algebra. Students who wish to earn college credit must meet the requirements set by the cooperating college or university.

This course will introduce fundamental concepts and methods of statistics with emphasis on interpretation of statistical arguments. Topic will include an introduction to design of experiments, data analysis, correlation and regression, concepts of probability theory, sampling errors, confidence intervals, and hypothesis tests.

3301A/B Pre-Calculus**Grade:** 11-12**Credit:** 1 unit**MATH1045 Pre-Calculus****College Credit:** 3 credit hours from UMSL

Prerequisite: Completion of Algebra II. Students who wish to earn college credit must meet the requirements set by the cooperating college or university.

Required Equipment: graphing calculator

This course integrates the conceptual underpinnings of calculus with topics of discrete math. It provides the opportunity to informally investigate concepts of calculus, such as maxima, minima, infinite sequences, and limits. A strong Algebra background is preferred with some trigonometric experience to prepare students for Calculus.

3302A/B Calculus**Grade:** 11-12**Credit:** 1 unit**MATH1800 Calculus****College Credit:** 3 Math credit hours at UMSL

Prerequisite: Completion of Pre-Calculus. Students who wish to earn college credit must meet the requirements set by the cooperating college or university.

Calculus is designed for students with a strong foundation in algebra and trigonometry. Students will continue a study of analytic geometry along with limits, derivatives, and topics from differential calculus. Integral calculus with indefinite integration using the power formula will be introduced as well as partial differentiation and multiple integrals with applications.

3400A/B College Algebra**Grade:** 11-12**Credit:** 1 unit**MATH130 College Algebra****College Credit:** 3 Math credit hours at UMSL

Prerequisite: Completion of Intermediate Algebra or Pre-Calculus. Students who wish to earn college credit must meet the requirements set by the cooperating college or university.

College Algebra consists of several non-sequential algebraic topics. The student will explore these topics within the realms of both the real number system and the complex number system. Topics include but are not limited to: equations and inequalities, functions and graphs, polynomial and rational functions, exponential and logarithmic functions, systems of equations, matrices and determinants, sequences and induction, and conic sections.

SCIENCE

4200A/B Biology I (required)

Grade: 9-12

Credit: 1 unit

Prerequisite: None

This introductory life science course places major emphasis on the cellular and biochemical aspects of living organisms through: microscope usage, cell structure and function, biochemistry, cell division, DNA, genetics, and organisms in their environment. This is a lab-oriented class designed to provide a basic background for the continuing study of advanced biology courses.

4100A/B Physical Science

Grade: 9-10

Credit: 1 unit

Prerequisite: None

Required: Calculator

Physical Science opens the door for students to preview the different areas of science. This course places an emphasis on: Chemistry: the scientific study of substances through structure and properties; and Physics: the study of matter, energy, and motion. Students will apply concepts in the laboratory and have several major projects.

4201A/B Chemistry I

Grade: 10-12

Credit: 1 unit

Prerequisite: "C" or better in Algebra I and Biology I

Required: Calculator

This course studies matter and its changes; the main emphasis is inorganic chemistry. A relevant investigative laboratory approach will be used.

4311A/B Ecology & Environmental Conservation

Grade: 11-12

Credit: 1 unit

BIO109 Ecology & Environmental Conservation

College Credit: 3 natural science credit hours at Jefferson College

Prerequisite: 3.0 GPA for dual enrollment and "C" or better in Biology I and Chemistry I. Students who wish to earn college credit must have ACT Reading score of 18 or qualifying Accuplacer score and must pay fees to Jefferson College

Ecology and Environmental Conservation deals with fundamental principles of ecology and how these principles can be applied to the comprehension of environmental problems. Areas of application include populations, land use, air, wildlife, resources and pollution control. This class will partially fulfill the natural science requirement for the Associate of Arts Degree.

4302A/B Earth Science

Grade: 10-12

Credit: 1 unit

Prerequisite: Completion of Biology I

Earth Science is the study of the Earth and its minerals, rocks, geological processes, structural geology, plate tectonics, geologic time, geological processes, and landforms. This course is designed to give a basic understanding of the physical processes that operate on Earth as well as how the Earth has changed throughout history.

4310A/B Zoology

Grade: 10-12

Credit: 1 unit

Prerequisite: C or better in Biology I

This course follows the evolutionary development of life forms on our planet. The animal kingdom will be examined to discover how the organisms carry out basic life processes. Students will participate in many lab activities, including several animal dissections. This course is strongly recommended for those students planning on taking Anatomy and/or pursuing a career in veterinary or human medicine.

4303A/B College Biology

Grade: 11-12

Credit: 1 unit

BIO101 General Biology

College Credit: 5 biology credit hours at Jefferson College.

Prerequisite: 3.0 GPA for dual enrollment and "C" or better in Biology I and Chemistry I. Students who wish to earn college credit must have ACT Reading score of 18 or qualifying Accuplacer score and must pay fees to Jefferson College.

College Biology emphasizes the physical, chemical and functional aspects common to all organisms, and present a general survey of life forms. This course reviews concepts learned in Biology I and study's evolutionary development of life forms on our planet. Each kingdom will be examined as to how the organisms carry out basic life processes. The course ends with an overview of the form and function of human systems. Students will participate in many lab activities, including several animal dissections. This course is strongly recommended for those students planning on taking Anatomy and/or pursuing a career in veterinary or human medicine.

4401A/B Anatomy & Physiology**Grade:** 12 **Credit:** 1 unit**College Credit:** 4 credits at UMSL**BIOL1131 Human Physiology and Anatomy****Prerequisite:** "C" or better in College Biology or Chemistry I; 3.0 cumulative GPA

This is a rigorous course of study designed to prepare the student for college and is of particular advantage to students preparing for health-related careers. Emphasis is placed on the cytology and histology of the skeletal, muscular, nervous, circulatory, urinary, digestive, respiratory, and reproductive systems will be studied in detail. Participation in laboratory experiments and the dissection of several vertebrate organisms and their organs is required. The course is designed to prepare students for university level science courses and will be of particular advantage to those considering a career in human health.

4305A/B Physics**Grade:** 11-12 **Credit:** 1 unit**Prerequisite:** "C" or better in Algebra II; concurrent enrollment in Pre-Calculus or Calculus is recommended.**Required:** scientific calculator

Physics is the study of how matter and energy relate and contains four broad areas. (1) mechanics—the study of motion and the forces that cause it; (2) waves—the study of light and sound waves that can be observed directly; (3) electricity and magnetism—the study of closely related phenomena which can be used to explain concepts from cars to computers to television; (4) atomic and modern physics—the study of the structure of the atom and atomic interaction as well as mass-energy relations.

4306A/B Forensic Science**Grade:** 11-12 **Credit:** 1 unit**SOC260 Intro to Forensic Science****College Credit:** 3 Forensic Science credits at St. Louis University.

Prerequisite: 3.0 GPA for dual enrollment, "C" or better in Biology I & Chemistry I and must pay fees to St. Louis University in order to earn college credit.

Students in this college level class will be expected to meet the standards set by St. Louis University. Topics discussed include: introduction to forensic science, crime scene, fingerprints, questioned documents, trace evidence, serology, DNA, toxicology, anthropology, and entomology. Topics are designed around authentic performance assessments with students working in teams to solve crime-like problems using scientific knowledge and reasoning. All areas of educational courses are incorporated. The use of technology, communication skills, language arts, art, family and consumer science, mathematics, and social studies help students solve and present their findings. One major paper and presentation are expected each semester.

**Pending approval for the 25-26 school year*

4316A/B Intro to Physical Science**Grade:** 11-12 **Credit:** 1.0 unit**PHYS101/103****College Credit:** 4 credit hours through MOBAP**Prerequisite:** 3.0 GPA for dual enrollment and "C" or better in Biology I and Chemistry I.

Physics is the study of how matter and energy relate and contains four broad areas. (1) mechanics—the study of motion and the forces that cause it; (2) waves—the study of light and sound waves that can be observed directly; (3) electricity and magnetism—the study of closely related phenomena which can be used to explain concepts from cars to computers to television; (4) atomic and modern physics—the study of the structure of the atom and atomic interaction as well as mass-energy relations.

VISUAL ARTS

5103E Introduction to 2-D Art

Grade: 9-12

Credit: ½ unit

Prerequisite: None

COST: Materials Cost \$10.00. ***Reduced fees are possible based on financial need.**

This is a semester course in which students will study the elements of art and the principles of design with master exemplars, applying and synthesizing those aspects into finished pieces of 2 dimensional artworks. Students will also explore drawing techniques including the human anatomy, figure drawing and other basic skills using various two dimensional mediums. This course is a prerequisite for Drawing and Painting.

5104E Introduction to 3-D Art

Grade: 9-12

Credit: ½ unit

Prerequisite: None

COST: Materials Cost \$10.00. ***Reduced fees are possible based on financial need.**

This is a semester course in which students will study the elements of art and the principles of design with master exemplars, applying and synthesizing those aspects into finished pieces of 3 dimensional artworks. Students will also explore sculpture and modeling techniques including proper methods to build with clay, cardboard, wood, etc and using other basic skills, Three dimensional mediums and printmaking. This course is a prerequisite for Pottery and Painting.

5300A Cartoon/Comic Drawing I

Grade: 9-12

Credit: ½ unit

Prerequisite: None

COST: \$10 ***Reduced fees are possible based on financial needs.**

This art class includes cartooning, illustration and animation using traditional media such as pen and ink on illustration board. Through this course, students learn how to draw characters through viewing and practicing styles from master exemplars. Students will create stories and develop the key points of an idea or concept individually and in small groups.

5300B Cartoon/Comic Drawing II

Grade: 9-12

Credit: ½ unit Fine Art Credit

Prerequisite: Pass Cartoon/Comic Drawing I

COST: \$10 ***Reduced fees are possible based on financial needs.**

Students will create trading card size comic books to distribute to classmates from personal drawings and story. Adobe Photoshop and Illustrator will also be used during finalization process of a full length comic book for the Course capstone.

5101A Photoshop 1 (PS1)

Grade: 9-12

Credit: ½ unit fine art or practical art

Students will learn about the most important features of Adobe Photoshop CS6. They will learn how to work with layers, make selections, incorporate color techniques, and place type in an image. At the end of the semester, they will learn to integrate what they have learned with real world applications.

5101B Photoshop II (PS2)

Grade: 9-12

Credit: ½ unit fine art or practical art

Prerequisite: Pass PS1

This is a continuation of Photoshop 1. Students will learn additional techniques to generate, manipulate, and enhance both still and moving images. Emphasis will be placed on the Elements of Art, Principles of Design, graphic design, and what to do with the images after they have been created on the computer. Off computer work includes painting, Claymation, etc.

5201A Pottery I

Grade: 10-12

Credit: ½ unit

Prerequisite: Pass 3-D Art

COST: Materials Cost: \$30. ***Reduced fees are possible based on financial need.**

Students learn about materials, techniques, equipment and the vocabulary of pottery. Students will use hand building techniques and different decorating methods. Emphasis is placed on structural design and function.

5201B Pottery II

Grade: 10-12

Credit: ½ unit

Prerequisite: Pass Pottery I

COST: Materials Cost: \$20. ***Reduced fees are possible based on financial need.**

Students will learn throwing methods on the potter's wheel and do advanced work in hand building techniques.

5205E Pottery III

Grade: 10-12

Credit: ½ unit

Prerequisite: Pass Pottery II

COST: Materials Cost: \$20. ***Reduced fees are possible based on financial need.**

Students will spend more time on the potter's wheel, while working more independently as they produce their work demonstrating the advanced techniques they have learned.

5202A Drawing I**Grade:** 10-12**Credit:** ½ unit**Prerequisite:** Pass 2-D Art or Cartoon/Comic Drawing I and II**COST:** Cost: \$20. ***Reduced fees are possible based on financial needs.**

The student will learn the skills, techniques and discipline necessary to make drawing an effective means of creative self-expression. Work is done in conte-crayon, charcoal, ink, pencil and other media exploring objective and subjective matter. Included is an in-depth study of perspective and spatial relationships.

5203B Drawing II**Grade:** 10-12**Credit:** ½ unit**Prerequisite:** Pass Drawing I**COST:** Approximate Cost: \$10. ***Reduced fees are possible based on financial needs.**

This class primarily builds on techniques acquired in Drawing I. Still life is often used as a subject matter. Composition of the figure, finished detailed drawings, and exhibition of finished work is included as part of the course.

5203A Painting I**Grade:** 10-12**Credit:** ½ unit**Prerequisite:** Pass 2-D Art**COST:** Approximate Cost: \$50. ***Reduced fees are possible based on financial needs.**

The student will learn color applications and painting techniques through a variety of mediums and styles using master exemplars with an emphasis on acrylic painting.

5203B Painting II**Grade:** 10-12**Credit:** ½ unit**Prerequisite:** Pass Painting I**COST:** Approximate Cost: \$30. ***Reduced fees are possible based on financial need.**

Painting techniques will be applied to individual interpretation using master and student exemplars. Students will analyze and criticize their own works often as a class mural may be created. When a class mural is prohibited, students will continue methods in acrylic painting.

5204A Sculpture I**Grade:** 10-12**Credit:** ½**Prerequisite:** Pass 3-D Art**COST:** Approximate Cost: \$15. ***Reduced fees are possible based on financial need.**

The student will create and construct sculptural art in a variety of mediums including, but not limited to, paper, wire, food, found objects, recycled objects, tape, plaster gauze, fabric, etc. Emphasis will be placed on the Elements of Art and the Principles of Design.

5204B Sculpture II**Grade:** 10-12**Credit:** ½ unit**Prerequisite:** Pass Sculpture I**COST:** Approximate Cost: \$15. ***Reduced fees are possible based on financial needs.**

The student will create and construct sculptural artwork in a variety of mediums building on methods learned in Sculpture 1. Emphasis will be placed on the Elements of Art and the Principles of Design.

5302A Jewelry I**Grade:** 10 – 12**Credit:** ½ unit**Prerequisite:** Pass 3-D Art**COST:** \$25

Students in this course will learn about the history of jewelry, fabrication techniques, design fundamentals and equipment use. The course includes classroom and studio instruction where students frequently create their own jewelry pieces (such as rings, pendants, keychains) in the multilayer process of soldering. Joining methods, metal working and finishing are also covered using tools and torches.

5302A Jewelry II**Grade:** 10 – 12**Credit:** ½ unit**Prerequisite:** Pass Jewelry I**COST:** \$25

This advanced course aims to build on the technical skills in jewelry design and fabrication, experience in workshop practice, use of tools and materials and safety. Emphasis is placed on both design and craftsmanship. Students should know how to practice patience, attention, precision and display a passion for creating new forms. They will, in turn, perfect their own technical and creative experience as well as develop a conceptual project goal. Students must have prior jewelry making skills and provide actual pieces of previous work to determine their project goals.

PERFORMING ARTS – VOCAL/STAGE

VOCAL LEVEL I

5125A/B Mixed Choir

Grade: 9-12

Credit: 1 unit

Prerequisite: None

This is a non-auditioned singing experience which trains students in the elements of proper vocal technique, pitch, and rhythm recognition. Two public concerts are required (one per semester). Public performance is an outgrowth of skill progression. Any public performance is a grade earning activity.

VOCAL LEVEL II

Participants in all Level II and Level III classes must have passed six (6) credit bearing classes in the previous semester and must be enrolled in at least six (6) credit bearing classes during the current semester.

5525A/B Baritone Choir

Grade: 9-12

Credit: 1 unit

Prerequisite: Audition required

Cost: Students are required to wear black dress pants, black dress shoes, a long sleeved white dress shirt and a tie.

Emphasis will be placed on learning to read music, fundamental vocal skills, sight-reading, and part-singing. This course is designed to be a performance based group. Daily singing vocal exercises will include emphasis on breath control, tone quality, diction, and range extension. Grades are based on individual effort, classroom attendance, attendance at performances, and singing skills. Required performances include fall, winter, and spring concerts plus the District Music Contest and any other requested performance.

5526A/B Treble Choir

Grade: 9-12

Credit: 1 unit

Prerequisite: Audition required

Cost: Must purchase selected attire.

Emphasis will be placed on learning to read music, fundamental vocal skills, sight-reading, and part-singing. This course is designed to be a performance based group. Daily singing vocal exercises will include emphasis on breath control, tone quality, diction, and range extension. Grades are based on individual effort, classroom attendance, attendance at performances, and singing skills. Required performances include fall, winter, and spring concerts plus the District Music Contest and any other requested performance.

VOCAL LEVEL III

5527A/B A Cappella Choir

Grade: 10-12

Credit: 1 unit

Prerequisite: Baritone or Treble choir and Audition required

The most advanced choir at HHS. Course content and grading procedures are similar to those described in the Men's and Women's choir section. Required are four public concerts, district and state contest, graduation exercises, and any other performance at the discretion of the director.

5528A/B Swing Choir (ZERO HOUR)

Grade: 9-12

Credit: 1 unit

Prerequisite: Audition required and to be concurrently enrolled in Baritone/Treble choir or A Cappella.

Cost: Students must purchase their outfits.

Swing choir includes singing and dancing and is a performance based group. Daily singing and vocal exercises will include emphasis on breath control, tone quality, diction, and range extensions. Movement is discussed and then applied to the music. Choral Octavos performed will include selections from the early 20's to today's top music. Grades are based on individual effort, classroom attendance, attendance at performances, and singing grades. Performances include fall, winter, and spring concerts plus community performances after school/evenings.

1210E Stagecraft

Grade: 9-12 **Credit:** ½ unit **Fine Art or Practical Art**

In Stagecraft, students will focus on developing the basic tools and procedures for creating elements of technical theatre. Students will learn the basics of makeup, crewing, costuming, lighting, set construction, special effects, and scenic artistry.

PERFORMING ARTS - INSTRUMENTAL

5175A Guitar I

Grade: 9-12

Credit: ½ unit

Prerequisite: None

Cost: Instructor approved purchased or rental non-electric guitar.

The study of guitar is taught with emphasis on music education through using the following selected elements of music: melody, harmony, and rhythm. Students will learn 14 open chord forms which are used in a variety of folk song materials. Students will also learn to read music notation from the treble clef. **Students must provide their own *non-electric* guitar approved by the instructor.**

5590A Music Theory

Grade: 10-12

Credit: ½ unit

Prerequisite: Previous music experience necessary. Students must know how to read standard notation.

A college freshmen level theory course where students will study the language of music and its many elements, structure, and procedures; such as pitch, rhythm, modes, harmony, voice leading, phrasing, cadences, periods, aural training, and other topics found in a College Freshmen Level Music Theory Course.

5591E Music Appreciation

Grade: 9-12

Credit: ½ unit

This one-semester course introduces students to the elements, instrumentation, and historical periods of music. Students will learn the significance of surroundings and time periods and how they both influenced the music of the day. Students will listen to and evaluate several types of music, and will be assessed through projects, presentations, and exams on the knowledge and understanding of music.

Participants in all the following instrumental classes must have passed 6 credit bearing classes in the previous semester and must be enrolled in at least 6 credit bearing classes during the current semester.

5580A/B Band

Grade: 9-12

Credit: 1 unit

Prerequisite: Junior High Band or prior marching or band experience; this does not pertain to Color Guard.

Incoming freshmen must participate in Marching Band in order to qualify for any other ensemble (i.e. Symphonic, Jazz, Concert, Indoor Percussion, Pep, etc.) during the year. If a student plays fall sports during their freshman year, that student must meet with the band instructor regarding his/her status on a case by case basis. This is called Alternative Status. Alternative Status means a student must meet all practice and competition requirements that do not conflict with his/her sport.

The Marching Hawks band performs at all home varsity football games, competes at marching festivals throughout the area, and performs in local parades. Fundamental and advanced marching skills, musicality and performance, visual effect and color guard are emphasized. The essential skills for learning how to march and achieve a full competition show are stressed. Students will be expected to attend a summer camp and attend extra rehearsals outside of the normal school day. Following the marching season, concert band members prepare for a performance at the end of the semester. Fundamental music qualities and abilities are refined and developed.

5581B Symphonic Band

Grade: 9-12

Credit: ½ unit

Prerequisite: Audition only and a minimum of one semester of Marching Band.

The band performs in concerts, evaluative and competitive music festivals as well as performing at local events. Students in this ensemble will rehearse and perform upper level literature and techniques. This course will be treated like a college level class in music performance.

5583A/B Jazz Band (ZERO HOUR)

Grade: 9-12

Credit: 1 unit

Prerequisite: audition only

The students study a variety of jazz styles and other music genres through listening and performance. Activities include but are not limited to: performances at jazz festivals and competitions, as well as inner-district and public performances, performances at local events, and concerts.

BUSINESS PATHWAYS

Business Management and Administration:

Introduction to Business
Entrepreneurship
Business Management
Business Law
Business Communication
Supervised Work Experience

Finance:

Personal Finance
Banking & Financial Services
Accounting I
Accounting II

Information Technology:

Microcomputer Applications
Web Design

Marketing:

Business Management
Introduction to Marketing
Sports & Entertainment Marketing
Digital Marketing
Travel & Tourism

BUSINESS EDUCATION

6100E Introduction to Business

Grades: 9-12

Credit: ½ unit

Prerequisite: None

This introductory course is designed to stimulate interest in various areas of business and to provide an overview of the business environment. This is an introductory course designed to stimulate interest in various areas of business and to provide an overview of the business environment. The course will include units on the economy, management, entrepreneurship, investing, marketing, human resources, and money management. Students will utilize technology resources, and participate in several hands-on projects, including participation in an online investing contest where they are able to spend \$100,000 in the stock market.

6201E Web Design

Grade: 9-12

Credit: ½ unit

Prerequisite: None

Create and modify images using the Fireworks software for use in your web page. Second, you'll learn about the capabilities of the world wide web and the fundamentals of web design. Next, you will plan the content, structure, and layout of your web site, create pages full of neatly formatted text, build links between the pages and to the outside world, and add color, backgrounds, graphics, tables, hot buttons, and animation using Dreamweaver Software. The basis for the course is HTML code in a text editor.

6203E Microcomputer Applications

Grade: 9-12

Credit: ½ unit

Prerequisite: Google Specialist or Keyboarding in JH

This is an advanced class designed to provide knowledge and skills necessary to use Microsoft Office in either a business office, at college, or at home. Students will create a variety of documents using an integrated software program. Course work will include emphasis on word-processing, data base, spreadsheet analysis, and power point.

(criminal and civil law), understand the nature of contracts, gain knowledge related to federal employment and labor laws and understand how the law affects minors and families.

6302E Personal Finance

Grade: 11-12 (10th w/approval) **Credit:** ½ unit

Designed for students to financially survive independently after high school graduation. Areas of study will include: paychecks, budgeting, credit cards, saving, investing, banking, taxes, insurance, and independent living.

6204E Introduction to Marketing

Grade: 9-12

Credit: ½ unit

Prerequisite: Introduction to Business

Explore the strategies and tactics used by the world's most successful companies. Class time blends creative group projects and discussions of innovative (as well as disastrous) marketing initiatives from well-known businesses. Learn the basics of marketing in a free enterprise system which includes promotional strategies, branding, advertising, and marketing research. Classroom resources include computers, digital cameras, and video cameras.

6300E Business Management

Grade: 9-12

Credit: ½ unit

Prerequisite: Introduction to Business

Students will be introduced and trained in the five major tasks of being a manager: planning, leading, organizing, staffing and controlling. This class will provide the students with an opportunity to understand how the world of business operates and how to practice making wise management decisions as well as exploring the possibilities of being an entrepreneur. It will also provide a critical understanding of how business organizations work and how they are managed. Goals, strategies, business structures, technologies, environments and the motivation of people will be discussed. This class is also supplemented with computer software programs called "Virtual Business" in which students simulate the management and operation process of a variety of businesses and industries.

66104E Business Law

Grade: 10-12

Credit: ½ unit

Prerequisite: Introduction to Business

This course will provide students with knowledge of basic legal business principles and the legal environment in which consumers and businesses operate. Student who take this class will have an opportunity to: understand several foundational legal terms and ideas, have insight into the relationship between federal and state governments, understand the importance of having a neutral place where disputes are decided, distinguish between public and private wrongs

6303E Entrepreneurship

Grade: 9-12

Credit: ½ unit

Prerequisite: Introduction to Business

This course is designed to provide students with the skills necessary to effectively organize, develop, create and manage a business. The skills covered include areas of business management, communication, interpersonal skills, economics and professional development foundations.

6401A Accounting I**Grade:** 11-12 (10th with approval) **Credit:** ½ unit**Prerequisite:** None

Accounting is designed to acquaint students with the fundamental principles of accounting, the language of business and its relationship to operating a business. Students will learn to prepare the financial forms necessary to complete the accounting cycle for service and merchandising businesses organized as sole proprietorships, partnerships, and corporations, using both a manual system and computerized accounting. Concepts learned in this class will be reinforced through an online accounting simulation game.

6401B Accounting II**Grade:** 11-12 (10th with approval) **Credit:** ½ unit**Prerequisite:** Accounting I

This class will prepare students to pursue further study of Business, Finance, and/or Accounting at the college level. It will include more advanced accounting concepts and the use of accounting software to further knowledge of how accounting is done in the real world. The accounting cycle for service and merchandising businesses organized as sole proprietorships, partnerships, closely and publicly held corporations are discussed. Students will work through Bookkeeping "SIMS" game as part of their final project.

6102A/B Business Communication**Grade:** 12 **Credit:** 1 unit**Prerequisite:** Introduction to Business

This course will develop knowledge and competence necessary for obtaining employment in a business career. Areas of study include: exploring career opportunities, using written and oral communication skills, performing client-related services, making decisions and solving problems, processing information, (word processing, data base, and spreadsheet analysis and multimedia integration), using office procedures and organization skills, and developing personal qualities and attitudes.

6206E Sports and Entertainment Marketing**Grade:** 10-12 **Credit:** ½ unit**Prerequisite:** Introduction to Marketing

This instructional program focuses on marketing and management functions and tasks that can be applied in amateur or professional sports or sporting events, entertainment events, selling or renting of supplies and equipment (other than vehicles) used for recreational or sporting purposes, products and services related to hobbies or cultural events or businesses primarily engaged in satisfying the desire to make productive or enjoyable use of leisure time.

6308E Travel & Tourism**Grade:** 9- 12**Credit:** ½ unit**Prerequisite:** Introduction to Business

This semester course provides students with an engaging exploration of the global tourism industry, one of the largest economic sectors in the world. Students will learn about history, cultural significance and economic impact of tourism, while developing skills in travel planning, customer service and global awareness. This course includes practical projects such as creating travel brochures, mock travel planning for real world scenarios and exploring virtual tours of iconic destinations. Students will gain skills in communication and critical thinking, preparing them for future studies or careers in travel, hospitality, and global business.

Topics include:

Introduction to Travel and Tourism: Understanding the industry's structure and importance.

Geography and Destinations: Key global and local travel destinations and how geography influences tourism trends.

Cultural Sensitivity and Ethics: Learning to respect and preserve diverse cultures and environments.

Travel Planning and Management: Basics of itinerary creation, budgeting and logistics.

Sustainable Tourism: Exploring eco-friendly practices and responsible tourism.

Careers in Tourism: Overview of career opportunities, event planning, travel consulting and more...

6501A/B Supervised Work Experience**Grade:** 12 **Credit:** 1 unit

Prerequisite: Concurrent enrollment in Business Communication and prerequisite or fall semester enrollment in Microcomputer Applications; 2.0 GPA and good attendance.

Student must have a school-to-work transition program which will allow students the opportunity to gain supervised practical work experience while receiving related school instruction. Students must work a minimum of 10 hours per week (180 hours for the semester) and receive at least minimum wage compensation in a business related position within the community. Seasonal work may not be accepted. If required paperwork is not returned in a timely manner, enrollment in the class may not be approved.

6306E Banking and Financial Services

Grade: 11-12

Credit: ½ unit

Prerequisite: Personal Finance

This course applies money and economic concepts to the development of personal financial goals and to the preparation of students for careers in which they plan, manage and analyze the financial and monetary aspects and success of business enterprises. Skills in money management deal with the study of basic concepts of economics, insurance, credit, savings, investments and budgeting skills needed for productive citizenship. The course may also cover such business financial matters as: business cycles, opportunity costs, cost-benefit analysis, methods of financing businesses, stocks and bonds, profit and loss etc.

6309E Digital Marketing

Grade: 10- 12

Credit: ½ unit

Prerequisite: Introduction to Marketing

This semester course introduces students to the fast paced and innovative world of online marketing. Designed to equip students with the skills and knowledge needed to navigate the digital landscape. Students will cover the fundamental principles of marketing with a focus on modern tools and technologies used in the digital space.

Topics include:

Marketing Basics: Understanding the principles of marketing and branding.

Social Media Marketing: Exploring strategies for platforms like Instagram, Tiktok, Youtube and more...

Content Creation: Developing engaging content for different audiences, including blogs, videos and graphics.

Search Engine Optimization (SEO): Learning techniques to improve website visibility in search engines.

E-mail and Mobile Marketing: Creating campaigns that effectively reach target audiences.

Analytics and Metrics: Using data to measure campaign success and improve strategies.

Ethical Marketing Practices: Ensuring integrity, transparency and respect for privacy in digital marketing efforts.

INDUSTRIAL ARTS & AGRICULTURAL SCIENCE

6150E General Shop

Grade: 9-10

Credit: ½ unit

Prerequisite: None

COST: Approximately \$20.00. **Reduced fees are possible based on financial need.**

General Shop is designed to introduce the students to basic woodworking tools and equipment found at home and in industry. The class will involve project construction, safety hand tool skills, power equipment operation,

6250E Beginning Woodworking

Grade: 10-12

Credit: ½ unit

Prerequisite: Pass General Shop

COST: Approximately \$50 or more depending on project size and wood use. **Reduced fees are possible based on financial need.**

This course is designed to acquaint the student with the operation of woodworking machinery. Basic furniture construction and cabinet making and various methods of finishing techniques will be taught. This is a participation driven class.

6350E Advanced Woodworking

Grade: 10-12

Credit: ½ unit

Prerequisite: Pass Beginning Woodworking

COST: Approximately \$50 depending on project size/wood use. **Reduced fees are possible based on financial need.**

The course is a continuation of Beginning Woodworking with emphasis on more elaborate construction projects. The student will learn many uses of power tools beyond their everyday use. This will be a participation driven class.

6251E Home Maintenance & Repair

Grade: 10-12

Credit: ½ unit

Prerequisite: None

COST: Approximately \$20.00. **Reduced fees are possible based on financial need.**

The student will learn how to make simple home repairs such as adding a new wall to an existing site, proper drywall installation and finishing techniques, basic electrical installation and repairs, copper pipe sweating, and basic home and design construction. This will be a participation driven class.

4308A/B Agricultural Science I

Grade: 9-12

Credit: 1 unit

This course introduces students to agriculture. During the first year the emphasis is on animal science and production methods. We will look at safety, animal health, livestock judging, behavior, care and carpentry. The sustainability and impact different methods have on resources and the environment will also be explored. Students participating in this course will experience hands-on activities with livestock animals, projects, and problems. In addition, students will be encouraged to participate in FFA to learn about and get real world experiences.

4309A/B Agricultural Science II: Agricultural Mechanics

Grade: 10-12

Credit: 1 unit

Prerequisite: Agricultural Science I

This course teaches students about the form and function of plant systems. The course is filled with activities, projects, and problems to teach that focus on plant concepts through laboratory and project and hands-on experiences growing and producing our own crops. Students will also look at basic welding techniques, basic equipment and engine repair diagnostic, basic metal fabrication and shop safety. Students will continue to build upon their professional skills and continued involvement in the FFA is highly encouraged.

4400A/B Agricultural Science III: Advanced Livestock Management

Grade: 11-12

Credit: 1 unit

Prerequisite: Agricultural Science I

This class will address the knowledge and skills necessary to care for and meet the needs of animals. This course will build on and implement the material learned in Agricultural Science I and II. Topics covered include animal health care practices, nutrition management, reproductive practices, medical terminology, surgical techniques and more. This course has an increased focus on the veterinary and medical portion of animal husbandry, where students will get hands-on experience working with farm animals. This class is a Supervised Agricultural Experience (SAE) in which each student is expected to participate in the activities and complete SAE for the year. Continued involvement with FFA is highly encouraged.

**4402A/B Agricultural Science IV: Agribusiness,
Sales, Marketing and Management**

Grade: 10-12 **Credit:** 1 unit

Prerequisite: Agricultural Science I

This course is designed to help provide knowledge in advanced principles in agribusiness management through economic principles and a continuation into careers, leadership and supervised agricultural experiences. Students will explore and apply skills to farm, business and money management, livestock and plant sales, as well as practice communications and networking with businesses in the industry. Continued involvement in FFA is highly encouraged.

**4404A/B Agricultural Science V: Greenhouse
Operation and Management**

Grade: 10-12 **Credit:** 1 unit

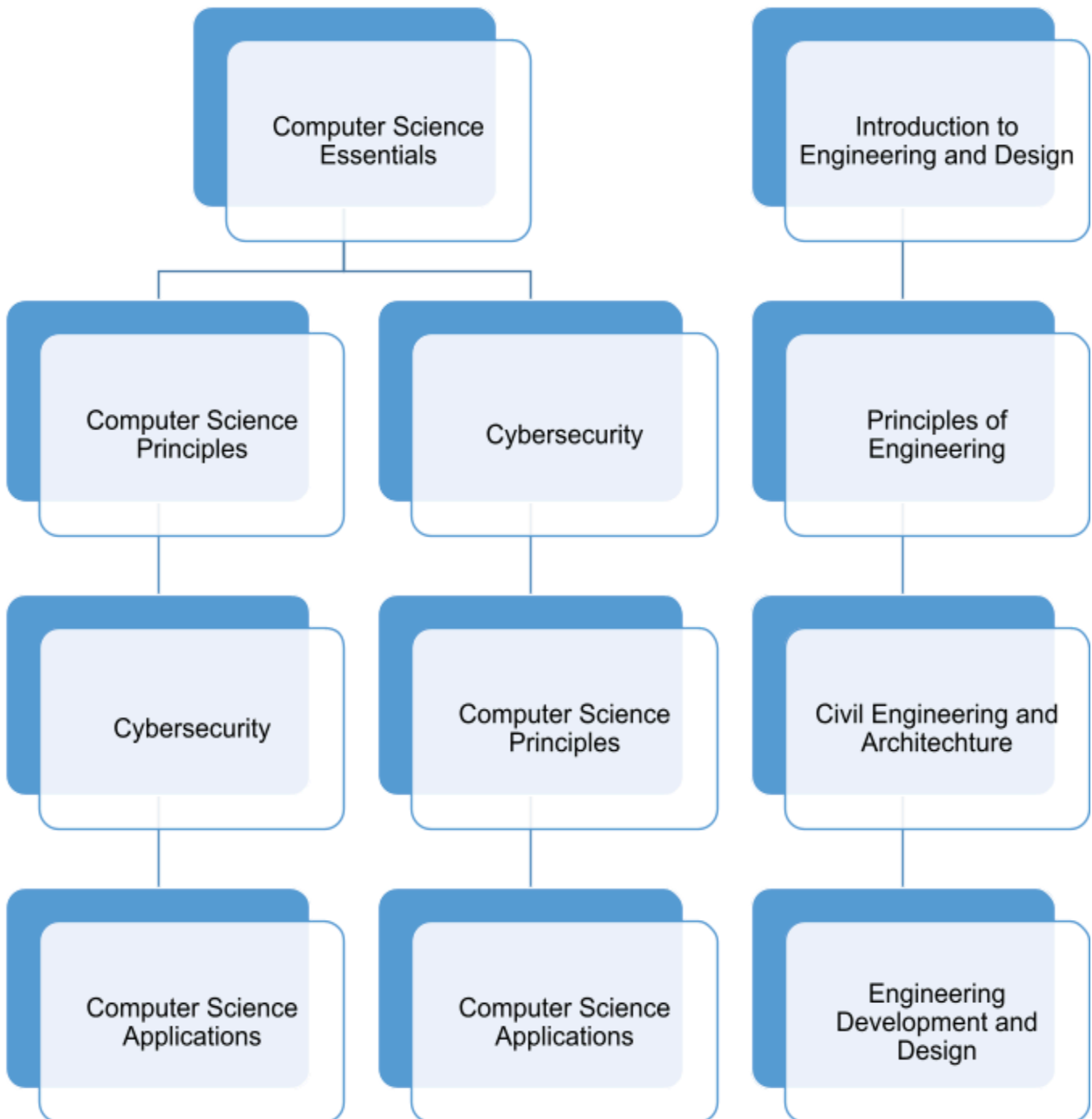
Prerequisite: Agricultural Science I

This course is designed to develop an understanding of greenhouse production techniques and practices. Students will gain an understanding of common horticulture management practices as they relate to food and ornamental plant production, plant nutrition, plant use and identification, plant chemical uses and precautions, food safety and more. Topics covered will include basic plant anatomy, plant reproduction, growth and nutrient requirements of plants, aquaponics and hydroponics. Students will build on their professional skills. Continued involvement with FFA is highly encouraged.

PROJECT LEAD THE WAY PATHWAYS

Computer Science

Engineering



PROJECT LEAD THE WAY (PLTW) COMPUTER SCIENCE

6358A/B Computer Science Essentials (CSE)

Grades: 9-12

Credit: 1 unit

Prerequisite: None

With emphasis on computational thinking and collaboration, this year-long course provides an excellent entry point for students to begin or continue the PLTW Computer Science K-12 experience. Computer Science Essentials will expose students to a diverse set of computational thinking concepts, fundamentals, and tools, allowing them to gain understanding and build confidence. In Computer Science Essentials, students will use visual, block-based programming and seamlessly transition to text-based programming with languages such as Python to create apps and develop websites, and learn how to make computers work together to put their design into practice. They'll apply computational thinking practices, build their vocabulary, and collaborate just as computing professionals do to create products that address topics and problems important to them. Computer Science Essentials helps students create a strong foundation to advance to Computer Science Principles, Computer Science A, and beyond.

6354 A/B Computer Science Principles (CSP)

Grade: 9-12

Credit: 1 unit

Prerequisite: Computer Science Essentials

Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. While this course can be a student's first in computer science, students without prior computing experience are encouraged to start with Introduction to Computer Science. CS helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cyber security, and simulation. The course curriculum is a College Board-approved implementation of AP CS Principles.

6359A/B Cybersecurity (CYS)

Grade: 9-12

Credit: 1 unit

Prerequisite: Computer Science Essentials

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

6355A/B Computer Science Applications (CSA)

Grade: 11-12

Credit: 1 unit

Prerequisite: Computer Science Principles and Cybersecurity

CSA focuses on further developing computational thinking skills through the medium of Android App™ development for mobile platforms. The course utilizes industry-standard tools such as Android Studio, Java™ programming language, XML, and device emulators. Students collaborate to create original solution to problems of their own choosing by designing and implementing user interfaces and web-based databases. The course curriculum is a College Board- approved implementation of AP CSA.

PROJECT LEAD THE WAY (PLTW) ENGINEERING

6352A/B Introduction to Engineering Design (IED)

Grade: 9-10

Credit: 1 unit

Prerequisite: None

IED focuses on developing problem solving skills using a design development process. IED is a hands-on class where students create models of product solutions, analyze the products, and communicate effectively. Much of the modeling is done with solid modeling software such as Autodesk's Inventor 3-D CAD program. Students will also build prototypes of their solutions in the engineering lab. Students will design a puzzle cube using 3-D software and then build a prototype of the cube using wood blocks. Students will design a desktop organizer using 3-D software and then build a prototype of the organizer in the engineering lab. Students will disassemble a product to see how it works. They will re-create the product using 3-D software and make an improvement to the product.

6353A/B Principles of Engineering (POE)

Grade: 10-12

Credit: 1 unit

Prerequisite: Completion of IED

POE blends scientific concepts, mathematical solutions and hands-on activities related to different areas of engineering. Students will learn about different fields of engineering, mechanical systems, statics, material testing, and kinematics. Exploring various technology systems and manufacturing processes helps students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. Students will use a Lego type robotics system to build a marble sorter with the capability of sorting 30 marbles by color and other physical attributes. Students will create a ping-pong launcher with materials in the engineering lab. Students will test their devices for accuracy and distance. Students will build balsa wood bridges and then test their bridges to see how much weight their bridges will hold.

6356 A/B Civil Engineering and Architecture (CEA)

Grade: 11-12

Credit: 1 unit

Prerequisite: Completion of POE

Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architecture design software.

6357 A/B Engineering Development and Design (EDD)

Grade: 12

Credit: 1 unit

Prerequisite: Completion of IED, POE and CEA

In this capstone course, you will work as part of a team to develop a solution to a technical problem of your choosing. Challenge yourself with one of those "don't you hate it when..." issues of the world and try to solve it. Research, design, test, and construct your solution or recommendations, then present it to industry or community partners. You and your team will use what you've already learned to guide you through the process of design and product development.

FAMILY AND CONSUMER SCIENCE (FACS)

6278A Prostart I A (Culinary Arts I)

Grade: 9-12

Credit: ½ unit

COST: Cost \$20

This course introduces students to the culinary field and explores the various career opportunities within it. This class is optimal for students who are considering careers in culinary or want to learn culinary techniques as a life skill. Topics covered include: History of the Food Service Industry, Food Service Career Pathways, Food Safety, Hygiene and Cleanliness, Kitchen Safety Procedures, Culinary Tool and Equipment, Mise En Place and Seasonings/Flavoring, intro to Baking and Culinary Math. Cooking labs are conducted along with the lessons. There is a \$20 lab fee for the purchase of groceries.

6278B Prostart I B (Culinary Arts II)

Grade: 9-12

Credit: ½ unit

COST: Cost \$20

This course continues from the Prostart IA curriculum by furthering exploration of foodservice career pathways. Topics include: Expectations of an Industry Professional, Communication skills, Finding a Job, Choosing a College or Trade School, Risk Management in the Professional Kitchen, Salads and Dressings/Dips, Sandwiches, Stocks, Soups, Sauces, Cooking Methods, Principles of Great Service and Introduction to Management. Cooking labs are conducted along with the lessons. There is a \$20 lab fee for the purchase of groceries.

6279A/B Prostart II (Culinary III)

Grade: 9-12

Credit: 1 unit

Prerequisite:

Cost: Approximate cost of the class is \$20

This yearlong course puts the concepts learned in Prostart I into action by taking a sales approach to culinary labs. Students will be learning from industry professionals, touring food service facilities and designing and implementing menus and recipes for the purpose of sale to faculty, staff, students and/or the public. This class is for those considering a full time or temporary career in the food service industry. Students may need to purchase a chef's coat or toque.

6275E Food and Nutrition

Grade: 9-12

Credit: ½ unit

Prerequisite: None

This course is for students who want to learn about the relationship between food and health or for those considering careers as a nutritionist, sports nutritionist, dietician, or in the medical or culinary fields. Students will research various diets and dietary allergies or preferences while conducting food labs. There is a \$20 lab fee for the purchase of groceries.

6277E Fashion & Interior Design

Grade: 9-12

Credit: ½ unit

Prerequisite: None

Cost: Approximate cost of the class is \$25

From the clothes we wear to the homes we live in, fashion and design is all around us. In this course, students who have a flair for fashion or who constantly redecorate their room find out what it is like to work in the design industry by exploring career possibilities and the background needed to pursue them. Students try their hand at designing as they learn the basics of color and design, then test their skills through hands-on projects. In addition, they develop the essential communication skills that build success in any business. By the end of the course, students are well on their way to developing the portfolio needed to get started in this exciting field.

6280E Family and Individual Health

Grade: 9-12

Credit: ½ unit

Prerequisite: None

This course will focus on basic health concerns and making healthy choices in the fields of mental, emotional, and social health nutrition, and substance problems are also studied. A unit about infectious diseases (including AIDS) and basic first aid will also be included in this course.

6375A/B Child Development, Care & Guidance**Grade:** 10-12**Credit:** 1 unit**Prerequisite:** None

This is a basic course of child development, care, & guidance. It is designed to prepare young people for their role as a parent or as someone who will deal with young children. A child's social, emotional, and physical development from conception through preschool is studied. Such topics as gynecological health, reproduction, pregnancy, labor and delivery, breast-feeding, infancy, toddler-hood, child abuse, divorce, and step parenting are included.

6376A/B Advanced Child Development, Care & Guidance**Grade:** 11-12**Credit:** 1 unit

Prerequisite: Any major discipline would require a principal recommendation; earn a grade of "C" or better in Child Development, Care & Guidance or instructor approval

This course provides advanced study in child development and guidance and is designed to provide students with the opportunity to work with preschool children: ages 3, 4, and 5; while serving in the capacity of childcare aide. The social, emotional, intellectual, and physical development of the preschool child is studied as well as selected areas involving the operation of a day care. Working with these children requires a great deal of patience and understanding. High school students that have had past behavior and or attendance problems should not take this class, because in working with the children unacceptable behavior will not be tolerated. Failure to behave in a responsible, courteous manner will result in your removal from the class with an "F".

6281A Practicum in Teaching Pathway**6281B Career Pathways for the Teaching Profession****Grade:** 12**Credit:** 1 unit

This year-long class is designed for students who are considering the elementary or secondary teaching profession or corporate educator. The course focuses on the general theory and practice of learning and teaching. The first course includes the basic principles of educational psychology, the art of teaching, the planning and administration of educational activities, school safety and health issues, and the social foundations of education.

The second course provides students with a seamless pathway to study the profession through experiencing the classroom as an intern. Each student is assigned to a district school within the high school attendance boundaries. Pre-Professional Educator Cadet practicum students will complete reflection journals, prepare and present a lesson(s) and work closely with students of the assigned supervising teacher. Students will demonstrate good moral character, good work habits, responsibility, punctuality and organizational skills.

This course is offered for Dual Credit to qualifying students through Jefferson College. There is 1 semester of credit in the fall and 3 credits in the spring available for purchase.

PHYSICAL EDUCATION

8100A/B Boys P.E. or 8101A/B Girls P.E.

Grade: 9-10 **Credit:** 1 or ½ unit

This course will consist of five weeks of personal fitness and body development and 31 weeks of team and individual sports. There will be a mandatory fitness test during the fall or spring semesters. Students will be evaluated on the basis of performance, skill test, participation, knowledge of rules, class behavior and attitude.

8203A/B Girls Recreational Games or 8204A/B Boys Recreational Games

Grade: 11-12 **Credit:** 1 or ½ unit

This course will emphasize basic skills, techniques, rules, strategies and safety of badminton, table tennis, washers, paddle tennis, golf, bowling, and softball through actual game competition with tournament play.

8205E Coed Outdoor Education

Grade: 10-12 **Credit:** ½ unit

Prerequisite: None

This course offers an opportunity to learn and practice outdoor skills. Students with a love of the outdoors will enjoy learning about wildlife conservation, forest safety, Missouri mammals, knot tying, animal track identification, hunting safety, hunting strategies, campfire building, basic survival, angling, orienteering, tree identification and other outdoor pursuits. Students will spend classroom time learning about activities that they will practice outside. There will be written assignments and all units of instruction will culminate with a written or skill test. ***This class may only be taken once.**

8206A/B Strength & Conditioning

8208A/B Girls Strength & Conditioning

Grade: 9-12 **Credit:** 1 or ½ unit

Prerequisite: None

This course is a strength-training system created for athletes who want to compete successfully and advance their skills in their sport. Students will perform essential lifts such as squat, bench press, and power clean with perfect technique. Students will enhance their speed and running technique through specific drills.

8500A/B Advanced Strength & Conditioning

Grade: 9-12 **Credit:** 1 or ½ unit

Prerequisite: Pass Strength & Conditioning

This zero hour course is a strength-training system created for athletes who want to compete successfully and advance their skills in their sport. Students will perform essential lifts such as the squat, bench press, and power clean with perfect technique. Athletes will enhance their speed and running technique through specific drills.

8200A/B Walking

Grade: 10-12 **Credit:** 1 or ½ unit

Prerequisite: None

This course helps students develop a regular walking program for health and fitness. In addition to reviewing fundamental principles of fitness, students learn about goals and motivation, walking mechanics, safety and injury prevention, appropriate attire and walking in the elements. The majority of this class will take place outdoors, so proper footwear and clothing is needed for year round weather.

NON-DEPARTMENTAL COURSES

9502E A+ Tutoring Class

Grade Level: 11-12

Credit: ½ unit

Prerequisite: Cumulative GPA of 2.25 and A+

Agreement form signed and filed with the A+ Coordinator.

Students who enroll in A+ Tutoring will work towards fulfilling the required 50 hours of tutoring/mentoring set by the state A+ program and Missouri Department of Higher Education. Students must be a Junior or Senior to be eligible to participate in the class. Students will be placed with a supervising teacher at one of the district's buildings. Students will be required to keep a daily time sheet and daily activity logs. ***Students may only receive credit for one semester of A+. Students needing longer to complete hours may retake the class, but will not receive credit for that semester.**

9301A/B Academic Lab

Grade: 11-12

Credit: none

This non-credit earning class may be taken in order to assist the student with study time.

9501A/B Clerical Assistant

Grade: 11-12

Credit: none

Prerequisite: 2.5 GPA, 95% attendance, Counselor approval.

This non-credit earning class may be taken in order to work as an office or teacher aide. Students must complete an application, if approved, will be assigned to offices and teachers on a need basis.

9010E Flex

Grade: 11-12

Credit: none

Prerequisite: Students must: have reliable transportation, be employed, maintain 95% attendance. Students must check with counselor to make sure they are eligible for this program.

This non-credit earning class may be taken in order to increase availability to work during school hours. Students must work an average of 5 hours per week for each section of flex within their schedule. (See all details on page 17 of this course book).

JEFFERSON COLLEGE AREA TECHNICAL SCHOOL COURSES

Hillsboro High School, through partnership with Jefferson College, offers many programs for students to attend technical training throughout the school day at Jefferson College. These programs are competitive and are applied for the year before attending during the enrollment period for the ATS which typically opens December 1st and closes in February. Students interested should let their counselor know as soon as possible so they can get the information and application turned in a timely manner. The programs offered and the grades that are available for them are included in the graphics on the next pages. Mrs. Sarah Dix is the high school liaison for the ATS programs and can be reached at dix_sarah@hsdr3.org .



AUTOMOTIVE TECHNOLOGY ♦ GRADE 12 ♦

Get ready to dive into the exciting world of Automotive Technology! This **one-year** program is designed specifically for high school seniors who want to master car mechanics, focusing on crucial areas like shop safety, brake systems, and steering and suspension. Plus, you'll have the chance to earn 13 college credits in Automotive Technology, giving you a head start on your future career. Join us and gear up for a hands-on adventure in the world of cars!

BIOMEDICAL SCIENCES ♦ GRADES 10-12 ♦

Step into the future of medicine with the **three-year** Biomedical Sciences program! Using the Project Lead the Way Curriculum, you'll uncover the secrets of human medicine, dive into the world of bioinformatics, and get hands-on experience with the human body's processes and structures. You'll also tackle big topics like disease diagnosis, treatment, and prevention. Plus, you can earn 7 college credits, all while still in high school. If you're curious about a healthcare career, this is your chance to get a major head start!

BUILDING REPAIR TECHNOLOGY ♦ GRADES 10-12 ♦

Get hands-on with Building Repair Technology! This dynamic **three-year** program turns you into a pro at fixing and maintaining everything inside residential and commercial buildings. You'll learn how to assemble, install, maintain, and repair various systems, giving you the skills to tackle any challenge in the building industry. Whether it's a leaky faucet or a faulty electrical system, you'll have the know-how to fix it. Jumpstart your career as a skilled building repair technician and make your mark in the world of construction and maintenance!

CULINARY ARTS ♦ GRADES 10-12 ♦

Step into the world of Culinary Arts with this exciting **three-year** program that's all about cooking up a storm and mastering the art of food preparation! Perfect for those dreaming of a career in bustling kitchens of hotels, trendy clubs, or fine dining restaurants. You'll dive into the essentials of culinary techniques, get a taste of restaurant management, and learn the secrets of hosting unforgettable banquets. Plus, you can spice up your resume early by earning 16 hours of college credit at Jefferson College. Ready to turn your passion for food into a thrilling career? Join us and become a culinary pro!

DIGITAL MEDIA TECHNOLOGY ♦ GRADES 10-12 ♦

Level up your tech skills with our **three-year** Digital Media Technology program! Dive into the dynamic world of information technology where you can unleash your creativity through graphic design, photography, web design, and digital media. Get hands-on experience with cutting-edge motion creation, master the art of photo manipulation, and even soar into drone aviation. Plus, you can supercharge your resume by earning up to 15 college credits. If you're ready to transform your digital passions into a high-tech career, this is the place to start!

EARLY CHILDHOOD & ELEMENTARY EDUCATION ♦ GRADES 10-12 ♦

Dive into the heartwarming world of Early Childhood and Elementary Education! This **three-year** program is your gateway to a career filled with the joys of teaching and nurturing young minds. You'll gain the essential skills and knowledge needed to thrive in early childhood care and elementary education settings. Whether you dream of leading a classroom or shaping the early years of children's lives, this program offers the professional competencies to turn your passion into a fulfilling career. Plus, you can earn up to 17 college credits at Jefferson College. Get ready to inspire and be inspired by the next generation!

EMERGENCY MEDICAL TECHNICIAN ♦ GRADE 12 ♦

Dive into the action-packed world of emergency medical services with our **one-year** Emergency Medical Technician (EMT) program! Learn crucial lifesaving skills, from managing trauma to patient assessment, in realistic scenarios using the latest emergency care technologies. Gain hands-on experience and prepare to make quick, life-saving decisions. Plus, you have the chance to earn up to 16 college credits at Jefferson College, propelling you toward a rewarding career in emergency healthcare. Get ready to make a significant impact, saving lives and serving your community!



FIRE SCIENCE TECHNOLOGY ♦ GRADE 12 ♦

Ignite your future with our **one-year** Fire Science Technology program! If you've ever dreamed of becoming a firefighter, either full-time or as a volunteer, this is your chance to turn that dream into reality. Dive into the thrilling world of firefighting, learning everything from tackling flames to emergency response. Plus, you'll have the opportunity to earn 16 hours of college credit in Fire Science Technology. Ready to answer the call and become a hero in your community? Join us and start your journey today!



HEALTH SERVICES I & II ♦ GRADES 11-12 ♦

Dive into the world of healthcare with our Health Services program! Whether you're just starting out or ready to advance, this program equips you with the crucial skills, knowledge, and mindset needed to thrive in a variety of health occupations. In Health Services I, you can earn your Certified Nursing Assistant (CNA) certification, setting a solid foundation for your career. Move up to Health Services II, and you'll have the chance to earn your Patient Care Technician (PCT) certification. Plus, Health Services II offers you the opportunity to gain seven hours of college credit. Jumpstart your journey in healthcare today and prepare to make a real difference!



HEATING, REFRIGERATION, AND A.C. TECHNOLOGY ♦ GRADES 11-12 ♦

Heat up your future with our Heating, Refrigeration, and AC Technology program! Dive into the essential skills for managing and repairing residential and commercial heating, cooling, and refrigeration systems. This hands-on **two-year** program doesn't just teach you the basics; it immerses you in real-world applications, preparing you to excel in a high-demand industry. Plus, complete both years of the program and you'll rack up an impressive 30 college credits. Whether you're interested in making environments more comfortable or keeping systems running smoothly, this is your ticket to a cool career!



METAL FABRICATION ♦ GRADES 10-12 ♦

Unleash your potential in Metal Fabrication! This **three-year** program isn't just about learning; it's about doing. Dive into the world of sheet metal work, machining, and welding through hands-on lab experiences where you'll get to operate real industry equipment. Whether you're cutting, bending, or joining metal, you'll be mastering the skills that turn raw materials into incredible structures and products. If you're ready to create, construct, and weld your way into a skilled trade, this is your chance to spark your future!



PRECISION MACHINING TECHNOLOGY ♦ GRADE 12 ♦

Get ready to shape the future with our **one-year** Precision Machining Technology (PMT) program! This isn't just any program—it's your entrance into the world of high-tech manufacturing where precision meets innovation. Learn how to combine industrial machining with cutting-edge CAD/CAM technology to create complex material parts with incredible accuracy. Plus, you'll have the chance to earn up to 6 college credits, giving you a head start on your technical career. If you're interested in turning raw materials into precisely engineered components, this is your opportunity to make it happen!



RESIDENTIAL CARPENTRY/ADVANCED CARPENTRY ♦ GRADES 10-12 ♦

Kickstart your career in carpentry with our exciting two-level program! Begin with Residential Carpentry, where you'll dive into the essentials of using hand and power tools, mastering job-site safety, and getting familiar with industry terminology. You'll get hands-on experience in framing, installing, and finishing both the inside and outside of houses. Plus, you can earn recognized industry credentials and even get a shot at entering the Carpenters Union Apprenticeship program. Once you've nailed the basics, step up to Advanced Residential Carpentry. This part of the program takes your skills to the next level as you apply what you've learned by building actual permanent structures. It's a real-world experience that not only boosts your skills but also increases your chances of landing a union apprenticeship and scoring jobs in the carpentry and construction industry. Ready to build your future? This program is the perfect foundation for a thrilling and rewarding career in carpentry!



WELDING TECHNOLOGY ♦ GRADES 11-12 ♦

Spark your interest in Welding Technology with this electrifying **two-year** program! Learn the core skills of welding, from gas and arc welding to the high-tech realms of MIG (Gas Metal Arc Welding) and TIG (Gas Tungsten Arc Welding), along with advanced techniques that will set you apart. Dive into the world of industrial blueprints and metallurgy, understanding the science behind the metal. Plus, you can earn a whopping 20 college credits in Welding Technology. If you're ready to light up your future with sparks and skills, this is the program for you!



APPLIED MATHEMATICS/APPLIED COMMUNICATIONS

Applied Communications and Applied Math classes are a required component of Building Repair Technology, Health Services I, Metal Fabrication, and Residential Carpentry. ELA and math credit may be available, based on the sending school. Basic computer skills are required for applied courses.

It is the policy of Jefferson College that no person shall, on the basis of age, ancestry, color, creed, disability, genetic information, marital status, national origin, race, religion, sex, gender identity or expression, sexual orientation, or veteran status, be subject to discrimination in employment or in admission to any educational program or activity of the College. Note: If accessibility services are needed, contact the Accessibility Resource Office, ASB 303, (836) 481-3158 or aro@jeffco.edu (7 days advance notice required for sign language interpretation services).

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