# FHSD <br> High School <br> Enrollment Guide 

## 2024-2025



## LEARNING TOGETHER

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## High School Contact Information

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Freshman Counselor
Sophomore Counselor
Junior Counselor
Senior Counselor
Responsive Services Counselor
Special Programs Coordinator
College \& Career Counselor
Educational Support Counselor

## Mission Statement

Empowering students to be lifelong learners prepared for the future.

## Vision Statements

Empowering students today so they are prepared for the future requires the District to:

- Maintain high expectations so students continuously grow and experience success as theyprepare themselves for college and career.
- Equip students with necessary life skills including collaboration, communication, critical thinking, creativity, citizenship, and character.
- Provide authentic and engaging real-world learning experiences in a technology rich, flexible, and inclusive environment.
- Prepare students to take responsibility for their learning.
- Develop collaborative, resourceful partnerships where families and our community unite to be responsible for sustaining high quality schools.


## Individual Career and Academic Plan (ICAP) - Planning Document

Starting in $8^{\text {th }}$ grade, students work with their school counselors to complete an Individual Career and Academic Plan (ICAP), which outlines their personal plan of study through the end of $12^{\text {th }}$ grade. Each year thereafter, when a student is in high school they update their ICAP based on their updated understanding of their chosen career pathway. They then register for courses that prepare them for their post-high school plans.

A student's ICAP is where they outline the courses they will take each year of high school. Students' personal ICAP documents can be found in two locations: their FHSD Google Drive and their SCOIR account.

To see an example of the FHSD ICAP document, please click this link: http://tiny.cc/wdwfvz. This is only a template and should not be used during the registration process. Each student's official ICAP, located on their Google Drive and their SCOIR account, is the one that should be updated.

## Alternative Learning

The Francis Howell School District offers a broad range of services to accommodate the educational needs of students in the community and identified with an educational identification. Please refer to the Alternative Learning section of the course listings for a list of some available services. In addition to the listed courses, there are also supportive services for all core academic areas.

Prior to a student receiving special education services, an individual comprehensive evaluation in the areas of intelligence, behavior and related areas must be completed. Eligibility must first be determined through the evaluation process, an individual education program must be developed, and then parent permission secured before placement is final.

## Continuity and Educational Plans

Francis Howell continues to stress the continuity of the high school experience and importance of educational planning. The freshman and sophomore years will establish a solid foundation of basic studies and required
courses. The junior and senior years will allow greater flexibility for the student and family to choose from several broad areas of study: College Preparatory, Technical/Vocational, Occupational (Work/Study) and General.

## College Preparatory Courses

Provides students the opportunity to prepare for entry into a college setting.

## Technical/Vocational Courses

Provides students the opportunity to select a program from the Lewis and Clark Career Center. Entry into a technical or vocational field upon graduation is the primary goal.

## Occupational (Work/Study) Programs

Provides seniors the opportunity to prepare for general employment in a chosen field upon graduation. Available areas of study include: Business/Cooperative Work Experience, Marketing/Cooperative Work Experience, and Culinary Work Experience.

## Center for Advanced Professional Studies (CAPS)

Serving all St. Charles County districts, the CAPS project immerses high school students in professional environments in coordination with industry leaders. Students gain with invaluable experiences and insights to guide their future studies and careers. Students can choose from strands in the healthcare industry, entrepreneurship and business management, as well as creative media.

## General Course Study

Provides students the opportunity to complete the minimum requirements for graduation and prepare for a variety of career choices, including: vocational or technical training, the military or two-year degree and certificate programs. Additional "select" courses might be required by a college or technical school in a particular field or program. Therefore, students are encouraged to consult their individual counselor on a frequent basis to ensure successful progress toward graduation in their respective choice of studies or programs.

## Course Description Information

## Unit of Credit

One unit of credit is awarded for the successful completion of a year-long course. One-half unit of credit is awarded for successful completion of a semester course. Credits are awarded at the completion of each semester. Credit will not be awarded by quarter.

## Required Course

A required course is one that either the State Department of Education or the Francis Howell School District requires for graduation. All required courses must be successfully completed prior to graduation.

## Normal Program

Each student is expected to make continual progress toward graduation requirements. Keeping in mind that the graduation requirements are minimum standards, a normal program will be considered to be six units of credit per year.

## Elective

An elective course is one that a student chooses to take but is not specifically required for graduation.

## Prerequisite

A prerequisite course is one that must be successfully completed before another related course may be taken. (Example: Accounting I must be completed before enrolling in Accounting II). An administrator may waive a prerequisite for a student.

## Blended Learning

Blended Learning courses combine face-to-face learning with independent learning through Canvas. This format provides opportunities for students to have more control over the pace, path, and/or the place of learning, and allow for a more personalized approach to learning. Teachers work with students to design a learning plan that allows for more flexibility than traditional classes, providing more opportunity for student choice, small group instruction, and individualized support. This flexed approach to learning better prepares students for college and workplace environments. For more information visit: https://bit.ly/FHSDBlended. To enroll in courses offered in the blended learning format, students should look for the "BL" designation during enrollment. For a list of courses offered in each building, visit: https://bit.ly/Blended24 25.

## High School Graduation Requirements

A student must complete a minimum of 24 units of credit to graduate.
English Language Arts.
4.0 units
Mathematics.................................................................................................... 3.0 units
Social Studies ................................................................................................. 3.0 units
Science .......................................................................................................... 3.0 units
Fine Arts ......................................................................................................... 1.0 units
Practical Arts .................................................................................................. 1.0 units
Physical Education.......................................................................................... 1.0 units
Health .............................................................................................................. 0.5 units
Personal Finance ............................................................................................. 0.5 units
Electives.......................................................................................................... 7.0 units

## Required Courses for Graduation

English Language Arts: 4 credits: English I, English II, English III or AP English Language and
Composition, Communication Arts elective
Math*: Any 3 Math credits
Social Studies: 3 credits; US History, World History, European History, US Government, Social Studies elective
Science*: 3 credits: Physical Science, Biology, Science elective
Fine Arts: 1 credit, includes Art, Music, Theatre
Practical Arts: 1 credit, includes Business, St. Charles County CAPS, Family and Consumer Science, Industrial Technology, Lewis \& Clark Career Center, Yearbook Publication, Newspaper Production, Photojournalism
Personal Finance: $1 / 2$ credit, this course satisfies $1 / 2$ of the required Practical Arts 1 credit
Physical Education: 1 credit
Health: $1 / 2$ credit

* Francis Howell School District students can earn one academic credit in math or science through approved computer science courses, including PLTW AP Computer Science Principles and PLTW AP Computer Science A, which are typically count as Practical Arts credits. Biology or Algebra I cannot be replaced due to the fact that they include required End of Course exams. It is important to be aware that some colleges may require three or more math and/or science courses for admission, and they may not consider a computer science course as a direct substitute for math or science. FHSD strongly recommends that students and families check with their intended colleges or universities to see if computer science fulfills math or science requirements. Students should discuss options with their school counselor. Counselors can provide the required application to earn math or science credit through district-approved computer science courses


## High School Credits Earned While in Middle School

Policy 2525 requires that students who successfully complete a high school course while in middle school have the course recorded on their high school transcript for G.P.A. and credit notation. These courses include, but are not limited to, the following:

- Algebra I
- Honors Geometry
- Physical Science $9^{\text {th }}$ Grade
- French 1
- German 1
- Spanish 1


## Correspondence Credit

Credit from accredited correspondence/online schools may be applied toward meeting Francis Howell School District graduation requirements. Before enrolling in any such coursework, students should first check with their school counselor to be certain that the institution is accredited by a reputable agency, and that the course selections will meet designated graduation requirements. These courses are taken at the expense of the student.

## Missouri Course Access Program (MOCAP)

The Francis Howell School District participates in the Missouri Course Access Program (MOCAP). Virtual instruction can be an effective option for some students. There may be courses available either through a district-provided virtual option or though the Missouri Course Access Program (MOCAP). More information about virtual courses can be found on our website at: https://goo.gl/TmFoSu.

The District will accept all MOCAP course credit earned in grades 9-12. In awarding credit and assigning grades, the District will apply the same standards for awarding credit and grade assignments that are applied to courses completed in the District's traditional curriculum. Students and their parent(s)/guardian(s) should meet with their school counselor if interested in MOCAP courses.

Once a semester has begun, it is very difficult to facilitate a change in format between in-person and virtual instruction or vice versa. For this reason, students and families may request a change in format within the first ten (10) days of the semester.

## Full-Time Virtual Students

With the passage of Missouri House Bill 1552, state law now mandates that under certain conditions, full-time virtual students must withdraw from Francis Howell and enroll in the district that hosts their virtual program. This only applies to a handful of "hosted" virtual programs. These "hosted" programs are listed below. Current FHSD students must complete the enrollment process for the district that hosts the virtual program and will then be withdrawn from the Francis Howell School District. This only applies to full-time virtual students.

## Hosted Virtual Programs

Full time virtual enrollment requires withdrawing from FHSD and enrolling in the host district.

- At Home Virtual Program (Mehlville School District)
- Greenways Academy (Boonville R-I School District)
- LAUNCH (Springfield Public Schools) - Through the FHSD partnership with LAUNCH, students may remain in FHSD if they take a full-time course load. They may also choose to withdraw from FHSD and enroll directly with Springfield Public Schools.
- Missouri Connections Academy - "MOCA" (Sturgeon R-V School District)
- Missouri Digital Academy - "MODA" (Laquey R5 School District)
- Missouri Virtual Academy - "MOVA" (Grandview R-II School District)
- Mizzou Academy (University of Missouri)
- R7 Online Academy (Lee's Summit R-7 School District)

The above list of DESE-approved host programs is routinely updated and can be found at https://mocap.mo.gov/, Current FHSD students who are interested in being a full-time virtual student in one of the hosted programs listed above (with the exception of LAUNCH) must withdraw from FHSD and enroll as a student in the identified district. New students who reside in FHSD and who wish to attend one of the above-listed programs as a full-time virtual student must first enroll as a student in FHSD to become established as a student in the State of Missouri. Thereafter, they must withdraw from Francis Howell and enroll in the Missouri district that hosts that virtual program.

Full-time virtual students who wish to maintain enrollment in the FHSD must choose courses from other vendors with whom FHSD has virtual partnerships, including EdOptions Academy, Edgenuity, LAUNCH (due to the District partnership), Imagine Learning, Florida Virtual School, or Michigan Virtual. Alternatively, if a full-time virtual student takes courses from multiple virtual vendors, then the updated law mandates that they remain students in FHSD. Students interested in this option should contact their school counselor.

## Part-Time Virtual Students

Lastly, students who wish to take some, but not all of their courses in a virtual environment will remain enrolled in FHSD. They can take courses from any of the above-listed vendors or any DESE-approved and accredited vendor. Students interested in taking virtual courses should contact their school counselor.

## Grade Point Average

All courses are graded with letters. Grades in Advanced Placement and Honors courses are given a bonus weight due to the challenging nature of the course. Weighted grades are letter grades that are assigned a numerical advantage when calculating a students' GPA

The following scale is used to calculate grade point average (GPA) each semester:

| High School Grading Scale |  | Regular Class | Honors Class |
| :---: | :---: | :---: | :---: |
| A | 90-100\% | 4 points | 5 points |
| B | 80-89\% | 3 points | 4 points |
| C | 70-79\% | 2 points | 3 points |
| D | 60-69\% | 1 point | 1 point |
| F | 0-59\% | 0 point | 0 point |

- Current grade point average $=$ the average of the course grades for all courses taken that semester only.
- Cumulative grade point average $=$ the average of the semester grades for all courses taken during high school.
- Each class with a passing grade (any grade higher than an " F ") $=1 / 2$ credit per semester.


## Semester Grade Calculation

| Quarter $1+$ Quarter 2 | $90 \%$ |
| :--- | :--- |
| Semester Exam | $10 \%$ |
| Semester Grade | $100 \%$ |

## Cum Laude Requirements

Only high school courses, including MOCAP courses, qualify for Cum Laude honors credit. Classes taken through correspondence or night school do not meet this standard. For students transferring from other school districts, the district will transcribe the letter grade exactly as it is represented on the transcript from the sending school. Allowances will not be made for different percentage ranges in the grading scale. Cum Laude GPA requirements are:

- 4.2 and above = Summa Cum Laude
- $4.00-4.19=$ Magna Cum Laude
- $3.8-3.99=$ Cum Laude

GPA will be calculated to include all high school classes (including MOCAP classes), non-remedial college classes, MOTR-numbered college classes, and courses approved through a dual credit petition that are taken as part of the Early College/CORE 42 program. This excludes correspondence and night school courses. Early College courses that will carry an honors point are those at the 200-level or higher as identified by the institution or the Missouri Core 42 program, those identified as "honors" by the institution or the Missouri Core 42 program, and those that have MOTR numbers that are the equivalent of "honors" courses at any Missouri public community college, college, or university. GPAs will not be rounded up.

Cum Laude honors will be announced as students' names are read at graduation. Students will wear a Cum Laude medallion with the color ribbon selected by the individual high school.

- Summa Cum Laude = gold medallion
- Magna Cum Laude = silver medallion
- Cum Laude = bronze medallion

Students earning Cum Laude can come up to their school after graduation to have their diploma embossed.

## Academic and Special Awards

Qualified graduates may earn the following awards as outlined below. Students are encouraged to plan accordingly and to petition for the awards for which they qualify during the spring of their senior year.
Additional information regarding these awards is available in the counselor's office. https://bit.ly/3zwm3pv

- The Francis Howell College Preparatory Studies Certificate
- A student must have 3.5 math credits and either 3 additional core classes or 2 years of foreign language. A student must have a cumulative GPA of 3.0 on a 4.0 system and score at or above the National Average on the ACT or SAT (ACT= 21 or above; SAT = 980 combined).
- The President's Award for Educational Excellence
- In addition to the requirements for the Missouri College Preparatory Certificate, a student must have a minimum GPA of 3.5 on a 4.0 system and score at or above the $85^{\text {th }}$ percentile on an ACT, SAT or other achievement test.
- The Standard of Academic Accomplishment Award (SAA)
- A student must complete all the specified courses required for the Missouri College Prep Certificate. If a student has a GPA of less than 3.0 but greater than 2.5 or has scores at the national average on the ACT, SAT, he/she may still be deemed qualified if the principal believes these grades/scores are truly commensurate with the student's ability level. A student must participate in at least one extra-curricular activity for each of the four high school years. A student must also have excellent citizenship/attendance record in each of his/her four years in high school.
- Seal of Biliteracy
- Students earning this award must demonstrate proficiency in English (EOC or ACCESS test scores) and a language other than English (AAPPL test taken during their senior year) and complete a cultural comparison project meeting all requirements. This award can be recognized by colleges for credit or scholarships.
- 4.0 Award
- Seniors earning a 4.0 cumulative GPA after 7 semesters of high school will receive a special cord to be awarded at Senior Awards night. Seniors will also be able to wear these special cords at graduation. In addition, seniors with a 4.0 cumulative GPA will be invited to attend a 4.0 luncheon with the Superintendent and Principal.


## Honors Courses

The courses listed below are part of the Cum Laude honors system. Unless noted with an asterisk (*), each of these courses carry an honors point as described above under "Grade Point Average."

- Honors Anatomy \& Physiology
- AP Art \& Design
- AP Art History
- AP Biology
- AP Calculus AB
- AP Calculus BC
- AP Chemistry
- AP Economics
- AP Environmental Science (online)
- AP European History
- AP French Language \& Culture
- AP German Language \& Culture
- AP Government \& Politics
- AP Human Geography
- AP Physics I
- AP Physics II
- AP PLTW Computer Science A
- AP PLTW Computer Science Principles
- AP Psychology
- AP Spanish Language \& Culture
- AP Statistics
- AP US History
- AP World History
- Computer Science Capstone
- Early College Classes *
- Honors Algebra II
- Honors Biology
- Honors Biology III (Human Genetics)
- Honors Chamber Choir
- Honors Chemistry
- Honors Concert Choir
- Honors English I
- Honors English II
- Honors French III
- Honors French IV
- Honors Geometry
- Honors German III
- Honors German IV
- Honors Jazz Ensemble
- Honors Newspaper Production
- Honors Pre-Calculus
- Honors Spanish III
- Honors Spanish IV
- Honors Symphonic Band
- Honors Treble Choir
- Honors United States History
- Honors Wind Ensemble
- Honors Yearbook Publication
- Marketing II
- Pathways to Teaching Careers**
- Pathways to Teaching Careers Internship
- Pathways to Teaching Careers Internship II
- PLTW Aerospace Engineering
- PLTW Biomedical Innovations
- PLTW Civil Engineering \& Agriculture
- PLTW Cybersecurity
- PLTW Digital Electronics
- PLTW Engineering Design \& Development
- PLTW Human Body Systems
- PLTW Introduction to Engineering
- PLTW Medical Interventions
- PLTW Principles of Biomedical Sciences
*See "Cum Laude Requirements" above. Not all Early College classes carry an honors point.
*See the course description for the criteria to earn the honors point.
Honors, Advanced Placement, Advanced Credit, Dual Credit, and Early College courses give students a head start on college while they are still in the supportive environment of a high school classroom. When college admissions personnel see these types of classes on a transcript, they realize the student has been exposed to greater depth of curriculum, which in turn requires students to develop time management and study skills. The combination of these abilities transfers directly to the intensity of college coursework.

Students who transfer to an FHSD high school with weighted grades from another district will only have those courses honored that are the same as weighted courses offered in FHSD.

## Appeal Process

If a student is not admitted to the Honors Program under normal conditions, the student/parent may appeal the decision. Likewise, if a student has been enrolled in an Honors Program course and wants to drop, the student/parent will need to appeal. In both cases, the student/parent should contact their counselor to initiate the appeal process.

## Advanced Credit (AC) Program (Dual Credit Classes)

In some classes, students have the option of paying for college credit at a reduced rate while enrolled in the FHSD class. Students must request official transcripts from each individual university. Advanced Credit options may vary at each high school. Advanced Credit courses that may be offered include:

- Accounting I
- Accounting II
- Advanced Fashion Construction
- Algebra III
- AP Art History
- AP Calculus AB
- AP Calculus BC
- AP French Language \& Culture
- AP German Language \& Culture
- AP Modern World History
- AP PLTW Computer Science A
- AP PLTW Computer Science Principles
- AP Spanish Language \& Culture
- CAPS Global Business/Entrepreneurship
- CAPS Healthcare
- CAPS Technology Solutions
- Child Development 2
- Child Development 3
- Culinary Arts
- Digital Art and Design
- Fashion
- Fashion Construction II
- French III
- French IV
- German III
- German IV
- Graphic Design I
- Graphic Design II
- Math Analysis
- Honors Newspaper Production
- Honors Yearbook Production
- Pathways to Teaching Careers
- Pathways to Teaching Internship I
- Pathways to Teaching Internship II
- PLTW Aerospace Engineering
- PLTW Biomedical Innovations
- PLTW Civil Engineering and Architecture
- PLTW Cybersecurity
- PLTW Computer Science A
- PLTW Digital Electronics
- PLTW Engineering Design \& Development
- PLTW Human Body Systems
- PLTW Intro to Engineering
- PLTW Medical Interventions
- PLTW Principles of Biomedical Science
- PLTW Principles of Engineering
- Pre Calculus Honors
- Printmaking II
- Spanish III
- Spanish IV

Please see your counselor for this year's list of eligible courses and partnering colleges, as this may change on a yearly basis.

- For UMSL, seniors, juniors and sophomores are eligible for enrollment if they have a 2.5 or higher G.P.A.
- Sophomores must have a 3.0 or higher G.P.A.

Students who have successfully completed at least one Advanced Credit course by the end of the first semester of their senior year and plan to attend UMSL full time are eligible to apply for a special scholarship to UMSL. These classes may not carry AC credit every year. The instructor will inform students if the course is not carrying AC credit. It is the student's responsibility to check with the colleges they are planning to attend to determine if and which of the AC credits they will accept.

## Advanced Placement Courses

Advanced Placement (AP) is a program of college-level courses coupled with national standardized examinations for currently enrolled secondary school students. The Francis Howell School District, the College Board and the Educational Testing Service provide this opportunity for students to earn college credit while still in high school.

Students who enroll in an AP course have the option, in May of each year, to take the standardized AP credit examination. AP college credit can only be attained as a result of a successful score on the standardized examination. High school graduation credit will be awarded upon successful completion of the course regardless of whether or not the standardized examination is taken. Students scoring a 3 or higher on an Advanced Placement exam and attending a public Missouri college or university will be awarded college credit in the associated course by that college or university.

Students register for AP Examinations in November and must pay a fee for each AP exam, as charged by the College Board and Educational Testing Service. Scholarship opportunities are available. Interested students should speak with their AP teacher or guidance counselor.
Please check with your counselor for a list of the current Advanced Placement (AP) courses offered at your high school. The following courses may be offered:

- AP Art \& Design
- AP Art History
- AP Biology
- AP Calculus AB
- AP Calculus BC
- AP Chemistry
- AP Economics
- AP English Language \& Composition
- AP English Literature \& Composition
- AP Environmental Science (online)
- AP European History
- AP French Language \& Culture
- AP German Language \& Culture
- AP Government \& Politics
- AP Human Geography
- AP Physics I
- AP Physics II
- AP PLTW Computer Science A
- AP PLTW Computer Science Principles
- AP Spanish Language \& Culture
- AP Statistics
- AP US History
- AP World History

All AP courses are awarded honor points. Please remember to carefully read all of the information contained in the "Honors Program" section above. Many AP courses are also available for advanced credit as outlined in the "Advanced Credit" section.

## Industry Recognized Certificates

Students in FHSD have the opportunity to take certification tests in Career and Technical Education courses. These tests, called Industry Recognized Credentials or "IRCs," are portable, recognized credentials that validate a student's skill and competency in a specific content area. They are aligned to industry standards and are recognized by the state of Missouri. IRCs are chosen by their alignment to specific courses, or to a series of courses, within the Career and Technical Education departments.

Earning an IRC while in high school provides students with a certificate and notation on their final transcript. These can be beneficial when seeking employment.

The district offers the IRCs at no cost to students and families. FHSD will offer the following IRCs in the 24-25 school year. The course and department associated with the IRC is also noted.

| Department | Course | Industry Recognized Credential |
| :--- | :--- | :--- |
| Business | Multimedia II | Adobe Premiere Pro |
| Business | Graphic Design with Adobe II | Adobe Photoshop |
| Business | Marketing II | ASK Marketing Fundamentals |
| Family and Consumer Science | Child Development II | AAFCS Early Childhood |
| Family and Consumer Science | Pathways to Teaching | AAFCS Education Fundamentals |
| Family and Consumer Science | Fashion Construction I and II <br> Advanced Fashion | AAFCS Fashion, Textiles and AppareI |
| Family and Consumer Science | Culinary Arts I | ProStart 1 |
| Family and Consumer Science | Culinary Arts II | ProStart 2 |
| Industrial Technology | Woodworking II | Carpentry Career Connections |

Students who participate in a Lewis \& Clark Technical program may also be eligible for one or more industry certification exams.

## ACT Prep Course Sequence

When a student improves their ACT score, they can be admitted to more colleges and qualify for more financial aid. ACT recommends that students take a specific course sequence that will best prepare them to score well on the ACT. That course sequence is included below. Any student planning to attend college after high school should take this course sequence and should take as many courses at the "better" level as they can.

| Core Area | $9^{\text {th }}$ Grade | $10^{\text {th }}$ Grade | 114 ${ }^{\text {th }}$ Grade |
| :---: | :---: | :---: | :---: |
| English | English I | English II | English III |
|  | Better Honors English I | Better Honors English II | Better <br> AP English Lang \& Comp Early College English |
| Math | $\frac{\text { Good }}{\text { Algebra I }}$ | Good | Algood |
|  | Better Geometry Honors Geometry Algebra II Honors Algebra II | Better <br> Honors Geometry Algebra II <br> Honors Algebra II Pre-Calculus Honors Pre-Calculus Statistics <br> Early College Math | Better <br> Honors Algebra II AP Statistics Math Analysis Pre-Calculus Honors Pre-Calculus AP Calculus AB AP Calculus BC <br> Early College Math |
| Science | Good <br> Physical Science | $\underset{\text { Bood }}{\text { Biology }}$ | $\begin{gathered} \text { Good } \\ \text { Chemistry } \end{gathered}$ |
|  | $\begin{aligned} & \text { Better } \\ & \text { Biology } \\ & \text { HNR Biology } \\ & \text { PLTW Biomed } \end{aligned}$ | Better <br> Honors Chemistry PLTW Biomed PLTW Human Body Sys Early College Science | Better <br> Physics <br> AP Physics AP Biology <br> Human Anatomy \& Phys. Biology II (ZoBot) Biology III (Genetics) AP Enviro. Science PLTW Human Body Sys. PLTW Med. Intervention Early College |
| Social Studies | Good US History | Good World History | American Good |
|  | Better Honors US History | Better <br> AP World History AP European History AP Human Geography Early College | Better <br> AP Govt. \& Politics AP Psychology AP World History AP US History <br> AP European History AP Human Geography Early College |

## A+ Schools Program

A student who meets the following criteria and continues a post-secondary education at a Missouri public community college or career/technical school may be eligible for state reimbursed tuition for up to $105 \%$ of the hours required for the degree program, contingent upon the high school being granted A+ Schools status each year and the availability of state funds.

1) Enter into a written agreement with the school by signing and submitting the A+ Agreement form no later than September $1^{\text {st }}$ of the student's senior year;
2) Attend a designated A+ School for two years prior to high school graduation;
3) Graduate from high school with a minimum unweighted grade point average of 2.5 on a 4.0 scale;
4) Have an overall attendance rate of $95 \%$ for grades $9-12$;
5) Perform $\mathbf{5 0}$ hours of unpaid peer mentoring or tutoring of other students on FHSD property, under the supervision of a FHSD employee, to be completed by January $1^{\text {st }}$ of the student's senior year;
6) Maintain a record of good citizenship according to the State A+ Schools Program, FHSD Code of Student Conduct, and High School Student Handbook. In FHSD, this means that a student can have no more than 4 occurrences of in-school and/or out of school suspensions during their high school career or any single out of school suspension that is 10 days or more.
7) Students must earn a score of proficient or advanced on the Algebra I End of Course exam or a higher level DESE approved End of Course exam in the field of mathematics. Students may also receive a qualifying score on the ACT math subtest, as set each year by MDHE (Missouri Department of Higher Education).
8) Make a good faith effort to secure all available federal financial aid by completing the Free Application for Federal Student Aid (FAFSA). Individuals may do so at https://fafsa.ed.gov
*For more information, please contact the A+Coordinator at your school.

## St. Charles Community College Articulation Agreement

High school students may earn advanced credit at St. Charles Community College (SCC) through vocational articulation agreements. However, articulated credit applies only to Applied Science degrees, not Associate of Art transfer degrees. In the Francis Howell School District, the following courses are articulated with SCC and count toward Applied Science degrees. The course, or sequence of courses, are noted with the SCC course they match. These articulated classes are different from the Early College Program, because the articulated courses are taught in FHSD schools, with FHSD curriculum, and by FHSD teachers.

| FHSD course | SCC Course |
| :--- | :--- |
| Accounting I | ACT 101 Applied Accounting (3 credits) |
| Introduction to Business -plus- either Business <br> Entrepreneurship or Personal Finance | BUS 101 Introduction to Business (3 credits) |
| Marketing I -and- - 2 arketing II | BUS 208 Entrepreneurship (3 credits) |
| Desktop Publishing | CTC 190 Publishing Concepts (2 credits) |
| Computer Aided Drafting I | CDM 103 Introduction to CAD Systems (2 credits) |
| Computer Aided Drafting II | CDM 104 CAD Systems II (3 credits) |
| Child Development I -and- Child Development II* | CDC 112 Child Growth \& Development (3 credits) |

*Both courses must be passed with a " $B$ " or better, and complete CDC 113 with a " $C$ " or better, credit for CDC 112 is awarded retroactively
Students should supply SCC with a transcript from their high school showing grades of "B" or better in the course or courses for which articulation credit is to be granted. Tuition will be waived for articulation courses. Students must accumulate 15 credit hours at SCC with a 2.5 GPA or better to receive articulation credit.

## Career Education Work Study Programs

The Francis Howell School District offers three vocational work-study programs for seniors. These programs include:

- Business/Cooperative Work Experience
- Marketing/Cooperative Work Experience
- Culinary Arts Work Experience
- Carpenter's Work-Based Learning

These programs allow high school students release time and credit for supervised work experience. Students must be enrolled in a minimum of four credit classes in their high schools.

## Career Education Work Study Prerequisites

Business/Cooperative Work Study

- 12th grade status and work program teacher approval
- Concurrent enrollment in Business Technology

Marketing/Cooperative Work Experience

- 12th grade status and work program teacher approval
- Concurrent enrollment in Marketing I or II


## Culinary Arts Work Experience

- 12th grade status and concurrent enrollment in Culinary Arts

Carpenter's Work-Based Learning

- 17 years of age
- Completion of Woodworking I and Woodworking II


## Lewis and Clark Career Center

Students who want to be considered for a vocational program need to complete a Lewis and Clark application form and return it to their home school counselor's office. Depending on the program, students must be completing $10^{\text {th }}$ or $11^{\text {th }}$ grade to apply.

Student information is compiled regarding grades, attendance, discipline patterns and aptitude testing. Students who have completed the entire application procedure will be rated by Lewis and Clark staff. Enrollment is based on the cooperative decision of the enrollment team at each sending school. For priority consideration, students need to complete the application procedure according to the timeline established by their high school and Lewis and Clark Career Center.

All classes at Lewis and Clark Career Center meet for three periods each day, and earn three units of credit per year. Articulation agreements are in place in certain programs for qualified students who complete their program. Students who complete the technical program with a minimum of $90 \%$ attendance and a " $C$ " average will receive a certificate of completion.

Please note: Due to time allotted for travel to and from Lewis \& Clark Career Center, students earn a maximum of 6 credits per year. Students who are credit deficient and choose to attend Lewis \& Clark may jeopardize their "ontime" graduation. See your counselor for potential credit assistance options.

## Lewis \& Clark Waived Credit Policy

Francis Howell School District has reviewed the curriculum and competencies used for each Lewis \& Clark program to allow students the opportunity to earn waived credit. With this, students enrolled in Lewis \& Clark have the opportunity to earn up to 1.0 unit of credit per every 3.0 units of credit ( 1 full year) they participate in the Lewis \& Clark program. Please review all the details below, to fully understand the program, as well as the chart that shows which core categories are available for each program.

## Lewis \& Clark Waived Credit Important Information:

- Students must successfully complete a full year of a Lewis \& Clark course in order to receive waived credit. Seniors planning to graduate early are not eligible for waived credit. Waived Credit is transcribed at the end of the school year.
- Students choosing the waived credit option will earn 3.0 Practical Arts credits and an additional 1.0 credit in either Math, Science, or Social Studies depending on the Lewis \& Clark course.
- A waived credit in Math, Science, or Social Studies will be transcribed with the grade "CR", credit earned.
- If a course is listed as more than one subject, the student/guardian and counselor will decide which credit will be the most beneficial to the student.
- Students and families should recognize that higher education institutions may not recognize these credits for admission purposes.
- Waived credit courses do not count toward NCAA requirements.

| Lewis \& Clark Course | Math | Science | Social Studies |
| :--- | :---: | :---: | :---: |
| Applied Retail \& Business Skills | X |  |  |
| Auto Collision Repair | X | X |  |
| Auto Service Technology | X | X |  |
| Brick \& Stone Masonry | X |  |  |
| Building Trades | X |  |  |
| Computer Maintenance \& Networking | X | X |  |
| Computer Software Development 1 \& 2 | X | X |  |
| Dental Assisting |  | X |  |
| Early Childhood Careers | X | X | X |
| Electrical Trades | X | X |  |
| Health/Health Related Occupations | X | X |  |
| Heating, Ventilation \& Air Conditioning (HVAC) |  |  | X |
| Law Enforcement | X | X |  |
| Precision Manufacturing Tech | X | X |  |
| Power Equipment Technology | X | X |  |
| Welding |  |  |  |

## Saint Charles County Center for Advanced Professional Studies (CAPS)

St. Charles County CAPS provides high school students in St. Charles County with a pre-professional, innovative and entrepreneurial education through career-oriented experiences that are both hands on and real world. St. Charles County CAPS students are immersed in professional environments engaging in curriculum developed by industry professionals and program instructors - ensuring that what is taught in the classroom is relevant to the workforce. Learning is enhanced by project work direct from industry partners who engage to mentor students and ensure timely, accurate and real project results.

Learning at St. Charles County CAPS is real-time, real-world, and hands-on. Emphasis is placed on developing professional skills, such as communication and collaboration, which employers deem highly important to individual success.

Students attend the CAPS program for half of their school day and the other half is at their home school. The morning CAPS session is from 7:30 AM to 10 AM and the afternoon session is from 11:30 PM to 2:00 PM. Students who participate in St. Charles County CAPS must provide their own transportation to and from their home school and the business site. $95 \%$ attendance is expected to remain in the course.

A complete application is required to apply. CAPS interviews may occur as well for strand placement purposes. The CAPS application can be found under Enrollment on the St. Charles County CAPS website: scccaps.org. College credit is available through Lindenwood University.

| Program | Grades | Locations | High School Credits |
| :--- | :--- | :--- | :--- |
| Technology Solutions <br> Information Technology <br> Creative Media | $11-12$ | Lewis \& Clark Career Center | 1.5 Practical Arts per <br> sem. |
| Healthcare | $11-12$ | Classroom TBD <br> BJC Progress West Hospital <br> BJS St. Peters Hospital <br> SSM St. Joseph Hospital - Lake St. Louis <br> SSM St. Joseph Hospital - St. Charles <br> Various non-hospital healthcare facilities | 1.0 - 1.5 Science per <br> sem. depending on <br> course hours \& location |
| Global Business / <br> Entrepreneurship | $11-12$ | Stauder Technologies (M, T, R, F) <br> Classroom TBD on Wednesdays | 1.5 Practical Arts per <br> sem. |

## Early College Program

The Early College Program offers high school students an opportunity to earn transferable college credits while still enrolled in high school. The program allows students to take classes at St. Charles Community College (SCC). Participating students will travel to take classes on the SCC campus. Beginning in a student's junior year, students may enroll in Lanes 1 and 2 of the Early College Program and replace part or all of their high school schedule. Students in grades 10-12 may enroll in Lane 3. All three lanes are described below. While enrolled in the Early College Program, students will take college coursework with textbooks and curriculum taught by SCC professors. Students can earn enough credits to complete part or all of an Associate's Degree while concurrently earning a high school diploma. Through the program, FHSD students can pay a discounted tuition rate of $\$ 50$ per credit hour. In addition, FHSD will pay tuition, books, and fees for students who participate in the federal Free and/or Reduced Lunch program. The Early College Program will consist of 3 "Lanes" of course offerings at SCC.

| Early College Lane | Description |
| :---: | :---: |
| $\begin{aligned} & \frac{\text { LANE } 1}{42+} \\ & \text { TRANSFERABLE } \\ & \text { CREDIT HOURS } \\ & \text { (Open to juniors \& } \\ & \text { seniors) } \end{aligned}$ | Students in Lane 1 will complete $42+$ credit hours that will be fully transferable to any Missouri public college or university. Most private institutions in Missouri and neighboring states also accept these credit hours, but students and families will need to confirm this with their destination school. Students who complete the "Core 42 " will be considered as having completed all lower-division general education requirements at any Missouri public college or university. Students shall receive full credit, including any pre-requisites or requirements in the major, for all Missouri Transfer (MOTR) courses that transfer. The receiving Missouri public institution cannot require the student to take any additional lower-division general education courses. A student may, however, have to take additional lower-division courses to fulfill major, minor, program, or institutional requirements. Students and families will pay for tuition, books, and fees. It is strongly recommended that students enter Lane 1 at the start of their junior year. Students may enter Lane 1 at the start of their senior year, but do so with the understanding that they will not complete the full $42+$ credit hours. |
| LANE 2 <br> ASSOCIATE'S DEGREE <br> (Open to juniors) | Students in Lane 2 will have an opportunity to earn an Associate's Degree from St. Charles Community College and will be able to transfer to any Missouri public university having completed all lower-division general education requirements. Most private institutions in Missouri and neighboring states also accept these credit hours, but students and families will need to confirm this with their destination school. Students shall receive full credit, including any prerequisites or requirements in their major, for all Missouri Transfer (MOTR) courses transferred. The receiving institution cannot require the student to take additional lower-division general education courses. A student may, however, have to take additional lower-division courses to fulfill major, minor, program, or other requirements at the receiving institution. Students and families will pay for tuition, books, and fees. Only students entering their junior year may enter Lane 2. |
| LANE 3 <br> A LA CARTE COURSES (Open to all grades) | Students in Lane 3 will take individual classes at St. Charles Community College. For each MOTR course completed, the receiving Missouri public institution shall award full transfer credit, including any prerequisites or requirements for a major or minor. Most private institutions in Missouri and neighboring states also accept these credit hours, but students and families will need to confirm this with their destination school. Students and families will pay for tuition, books, and fees. Students may enter Lane 3 at any time in their high school career. |

Students participating in Lanes 1,2 , and 3 of the Early College Program will receive high school credit for MOTRnumbered dual enrollment courses offered at SCC. Only non-remedial courses will be eligible for dual enrollment credit. All MOTR-numbered Lane 1 (42+ Transferable Credit Hours), Lane 2 (Associate's Degree), and Lane 3 (A La Carte) courses completed at SCC will be included on participating students' high school transcripts, can be considered for cum laude credit requirements, and will be calculated into the participating student's GPA. For more information on the Francis Howell Early College Program, please visit the program webpage at https://sites.google.com/g.fhsdschools.org/college-career/college-hub/early-college-program.

## Gifted Educational Program

The Francis Howell School District offers a program for gifted students. Students in the program must meet the guidelines established by the Francis Howell School District and the Missouri State Department of Elementary and Secondary Education. Students who are interested in entering the program should check with their building level Gifted facilitator to review eligibility requirements.

## Testing During High School

| Required / Optional | Assessment | Purpose | Who Takes The Assessment |
| :---: | :---: | :---: | :---: |
| Required <br> Each student is required to take one of these prior to graduation. FHSD provides all $11^{\text {th }}$ graders with an opportunity to take one of these assessments at no cost. Each is typically offered at school in the spring. Students should take the assessment that best matches their plans after high school. | ACT | College readiness assessment used for admission purposes and some scholarship applications. The ACT is the most widely-accepted college entrance exam in the United States. For more information, please visit the ACT (https://bit.ly/3sSSVoM). | Any student planning to attend a 2-year or 4-year college. |
|  | ACT WorkKeys | Measures foundational skills required for success in the workplace. The WorkKeys measures workplace skills that can impact job performance. Testers are provided with a report, the results of which can be included on employment resumes. | Any student planning to enter the workforce after graduation. |
|  | ASVAB | Military aptitude assessment that identifies which careers are best matched with skills in general science, arithmetic reasoning, word knowledge, mechanical comprehension, and electronics. Scores for exams taken by students aged 17 or older are used by the military for recruitment and placement. | Any student planning to enter the military after graduation. Any student interested in learning their career aptitudes. |
| Required | End-Of-Course (EOC) | The Missouri Department of Elementary and Secondary Education (DESE) requires that students take EOCs upon the completion of the following courses: <br> - Algebra I <br> - Algebra II (If Algebra I was taken in middle school) <br> - Biology <br> - English II <br> - Government | All students taking Algebra I, Algebra II (if they took Algebra I in middle school), Biology, English II, and Government. |
| Optional | SAT | College readiness assessment used for admission and some scholarship applications. Mostly used for colleges on the east and west coast and a few highly-selective Midwestern colleges. For more information, please visit the SAT (https://bit.ly/3SZzbu8). | Students attending a college or university that specifically requires an SAT for admissions or scholarships. |
| Optional | PSAT | Preliminary SAT exam offered to sophomores and juniors. Juniors use PSAT scores to qualify for the National Merit Scholarship. Fees are charged. For more information, please visit the PSAT/NMSQT website at https://bit.ly/3h5kZTm. | Any student interested in qualifying for the National Merit Scholarship. |
| Optional | OASIS | The Lewis \& Clark Career Center administers this aptitude test to students who apply for admission to the technical school. | Any student applying for admission to Lewis \& Clark. |

## Years That Tests Are Administered

| 9th Grade | 10th Grade | $11^{\text {th }}$ Grade | $12^{\text {th }}$ Grade |
| :---: | :---: | :---: | :---: |
| End of Course Exams: <br> Dependent upon completion of a course with a state-developed end of course exam | End of Course Exams: <br> Dependent upon completion of a course with a statedeveloped end of course exam. <br> *PSAT/NMSQT: (October) College bound students - fee charged and sign up required. ASV AB - Scheduled by high school | End of Course Exams: Dependent upon completion of a course with a state-developed end of course exam. <br> *PSAT/NMSQT : (October) College bound students - fee charged and sign up required. <br> ACT/SAT: <br> (September/October/Decembe r/February/April/June/July) All college bound students registration fee. ACT free to all juniors in Spring semester. <br> ACT WorkKeys: Spring semester | End of Course Exams: Dependent upon completion of a course with a state-developed end of course exam. ACT/SAT: <br> (September/October/December/Februar y/April/June/July) All college bound students - fee and sign up required. <br> ACT WorkKeys: (Fall or Spring semester |

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## Schedule Change Policy

Please make your choices of courses for next year very carefully. Once the enrollment process has been completed, it is very difficult to change schedule requests. Parents should review their student's course requests prior to the completion of enrollment.

Teaching assignments, textbook allocations, and supply/equipment expenditures are made based upon the classes that students select during the spring enrollment period. For this reason, student requests for changes cannot not be honored outside of extreme circumstances. Changes in preference are not extreme.

Schedule changes due to the cancellation of courses or sections, failures of required or prerequisite classes, or other unplanned occurrences will be handled by the high school counselor's office. Students impacted by these situations will be contacted about possible alternatives during the summer. There will be no schedule changes after the first ten (10) days of the semester.

## Dropping a Class

If a student drops a class after the first ten (10) days of a semester, the student receives an " F " for the semester. This includes virtual, dual credit, advanced credit, dual enrollment, and Early College courses.

## Career Pathways

## The Purpose of Career Paths

Your school is doing everything possible to assist all students in choosing and preparing for a rewarding career. A general high school program of studies is simply not enough preparation for today's colleges or for employment in today's complex workplace. Rather, the program of studies must be carefully planned and selected to help ensure that students will attain their goals.

Your school counseling staff has initiated a program of Career Pathways to help give focus and direction to the selection of a high school course of study to best assist students' alignment of these courses with their personal strengths, interests and future goals. The tools and resources that your school counseling staff uses with students to achieve this outcome are the FHSD Individual Career and Academic Plan (called the ICAP, which can be found at: https: $^{\prime} /$ bit.ly/ICAPfhsd), the YouScience Aptitude, \& Interest assessment (taken $1^{\text {st }}$ semester of $9^{\text {th }}$ grade, results accessible on YouScience via a student's Clever account), and Missouri's designated Six Career Pathways chart (see below). Parents are encouraged to review YouScience results with their students.

These Career Pathways are the same six pathways that Missouri has identified as a way to help students become aware of and explore careers in a logical and meaningful way. Each elective course is aligned to at least one of these six pathways. You can find a diagram of these six pathways at https://dese.mo.gov/media/pdf/Career-cluster-poster-8-18. To better assist students with selecting courses within a specific Career Pathway, elective courses in this enrollment guide are coded in the following way.

AC- Arts \& Communication
HeS- Health Services
IET- Industrial \& Engineering Technology
HuS- Human Services
NRA- Natural Resources \& Agriculture
BMT- Business, Management \& Technology

## If Students Change Their Minds...

A career path choice is not a permanent commitment. As students mature and have new experiences, they will learn new things about themselves and may want to change their career path. If students decide on a new career path, they should discuss it with their counselor and adjust their plans in accordance with their new career direction.

## Missouri Career Paths, Clusters, \& Pathways

To see the Missouri career pathway poster, visit: https://dese.mo.gov/media/pdf/Career-cluster-poster-8-18

| Career Path | Missouri has identified six Career Paths as a way to help students become aware of and explore careers in a logical and meaningful way. |
| :---: | :---: |
| Career Clusters | Missouri uses 16 Career Clusters as a way of organizing occupations and careers to assist educators in tailoring rigorous coursework and related activities for all students. The Career Clusters include all occupations, even those not usually found in career and technical education. Career Clusters may be used beginning in grades 7,8 , or 9 , and can continue as a framework for educational planning through postsecondary education. |
| Career Pathways | Occupations within a Career Cluster are further grouped according to shared commonalities such as skill sets or common roles. This grouping is called a Career Pathway. Each cluster contains two to seven Career Pathways. Career Pathways assist educators in the development of a coordinated and non-duplicative sequence of courses that identifies both secondary and postsecondary education elements; includes challenging academic and career and technical education content; and culminates in one or more of the following: technical skill proficiency, a credential, a certificate, or a degree at the secondary or postsecondary level. |
| Knowledge \& Skill Statements | Knowledge and skill statements represent the skills and knowledge, both academic and technical, that all students should achieve for a given career area. |

Academic \& Technical Skills Critical Thinking - Employability

## Foundation Knowledge \& Skills - For All Students

Teamwork - Career Development - Information Technology Application Problem Solving Ethics - Systems - Safety, Health, \& Environment - Legal Responsibilities - Communication

|  | Arts \& Communication (AC) Creative Path | Health Services (HeS) Health Path |
| :---: | :---: | :---: |
|  | Arts, Technology, \& Communications <br> - Audio \& Video Technology \& Film <br> - Printing Technology <br> - Visual Arts <br> - Performing Arts <br> - Journalism \& Broadcasting <br> - Telecommunications | Health Science <br> - Biotechnology Research \& Development <br> - Therapeutic Services <br> - Diagnostic Services <br> - Health Informatics <br> - Support Services |
|  | Business, Management \& Technology Business Path | Industrial \& Engineering Technology (IET) Building \& Fixing Path |
|  | Finance <br> - Securities \& Investments <br> - Business Finance <br> - Banking Services <br> - Insurance <br> - Accounting <br> Marketing <br> - Marketing Management <br> - Marketing Communications <br> - Marketing Research <br> - Professional Sales <br> - Merchandising <br>  <br> Administration <br> - General Management <br> - Human Resources Management <br> - Business Information Management <br> - Operations Management <br> - Administrative Support <br> Information Technology <br> - Network Systems <br> - Information Support \& Services <br> - Web \& Digital Communications <br> - Programming \& Software Development | Architecture \& Construction <br> - Design \& Pre-Construction <br> - Construction <br> - Maintenance \& Operations <br> Manufacturing <br> - Productions <br> - Manufacturing Production Process Development <br> - Maintenance, Installation, \& Repair <br> - Quality Assurance <br> - Logistics \& Inventory Control <br> - Health, Safety, \& Environmental Assurance <br> Science, Technology, Engineering, \& Mathematics <br> - Engineering \& Technology <br> - Science \& Mathematics <br> Transportation, Distribution, \& Logistics <br> - Transportation Operations <br> - Logistics, Planning, \& Management Services <br> - Warehousing \& Distribution Center Operations <br> - Facility \& Mobile Equipment Maintenance <br> - Transportation Systems \& Infrastructure Planning, Management, \& Regulation <br> - Health, Safety, \& Environmental Management <br> - Sales \& Services |

## Natural Resources \& Agriculture

 (NRA)Nature Path
Agriculture, Food, \& Natural Resources

- Agribusiness Systems
- Animal Systems
- Food Products \& Processing Systems
- Natural Resources
- Environmental Service Systems
- Power, Structural, and Technical Systems
- Plant Systems


## Human Services (HuS) <br> Helping Path

## Human Services

- Early Childhood Development \& Services
- Counseling \& Mental Health Services
- Family \& Community Services
- Consumer Services

Hospitality \& Tourism

- Restaurants \& Food \& Beverages Services
- Recreation, Amusement, \& Attractions
- Travel \& Tourism
- Lodging


## Government \& Public Administration

- Public Management \& Administration
- Governance
- National Security
- Foreign Service
- Planning
- Revenue \& Taxation
- Regulation


## Law, Public Safety, Corrections, \&

 Security- Correction Services
- Emergency \& Fire Management Services
- Security \& Protective Services
- Law Enforcement Services
- Legal Services


## Education \& Training

- Administration \& Administrative Support
- Professional Support Services
- Teaching \& Training


## SCOIR

Francis Howell offers an Internet accessible college educational planning program called SCOIR. The program provides students and parents with the necessary tools for career and educational planning. Students will be introduced to SCOIR during classroom presentations starting in 8th grade. Parents are encouraged to use the program at home with their student to help explore college options, create a resume, and develop and regularly update an Individual Career and Academic Plan (ICAP). Students will also use SCOIR to sign up to visit with college admission representatives in the counseling office, as to assist them and their college and career counselors with the college application process.

For additional information about college \& career planning in the Francis Howell School District, visit the FHSD College \& Career website at https://tiny.cc/6ezevz.

## FHSD Courses Available to 9th-Graders

| English Language Arts | Physical Education |
| :---: | :---: |
| English I (1 credit/unit) | Introduction to Fitness (formerly Personal Lifetime Fitness) |
| Honors English I (1 credit/unit) | (. 5 credit/unit) |
| Speech I (.5 credit/unit) | Health and Family Education (.5 credit/unit) |
| Speech II (after Speech I) (. 5 credit/unit) | Practical Arts |
| Journalism (. 5 credit/unit) | Business \& Computer Technology |
| Broadcast Journalism (. 5 credit/unit) | Graphic Design w/Adobe I (. 5 credit/unit) |
| Digital Photojournalism (.5 credit/unit)+ | Graphic Design w/ Adobe II (.5 credit/unit) |
|  | Introduction to Business (1 credit/unit) |
| Social Studies | Introduction to Microsoft Applications (.5 credit/unit) |
| US History (1 credit/unit) | Multimedia I ( 5 credit/unit) |
| Honors US History (1 credit/unit) | Multimedia II (after Multimedia II) (. 5 credit/unit) |
| AP Human Geography (1 credit/unit) | AP PLTW Computer Science Principles (1 credit/unit) |
|  | Web Page Design I ( 5 credit/unit) |
| Science | Web Page Design II (after Web Page I) (. 5 credit/unit) |
| Physical Science (1 credit/unit) |  |
| Biology (after Phys. Science) (1 credit/ unit) | ELA Electives for Practical Arts Credit Honors |
| Honors Biology (after Phys. Science) (1 credit/unit) | Newspaper Production (1 credit/unit)+ Honors |
| Chemistry (after Phys. Science \& Algebra I) (1 credit/unit) | Yearbook Publication (1 credit/unit)+ Digital |
| Honors Chemistry (after Phys. Science \& Algebra I) (1 credit/unit) | Photojournalism (. 5 credit/unit)+ |
| PLTW Principles of Biomedical Sciences (1 credit/unit) |  |
|  | Family \& Consumer Sciences |
| Math | Child Development I ( 5 credit/unit) |
| Algebra I (1 credit/unit) | Child Development II (after Child Dev. I) (.5 credit/unit) |
| Geometry (after Algebra I) (1 credit/unit) | Fashion Construction I (.5 credit/unit) |
| Honors Geometry (after Algebra I) (1 credit/unit) | Fashion Construction II (after Fashion Const. I) (. $5 \mathrm{cr} . / \mathrm{unit}$ ) |
| Algebra II (after Geometry) (1 credit/unit) | Foods \& Nutrition I (.5 credit/unit) |
| Honors Algebra II (after Geometry) (1 credit/unit) | Foods \& Nutrition II (after Foods I) (.5 credit/unit) |
|  | International Cuisine (after Foods 1) (. 5 credit/unit) |
| World Language | Housing \& Interior Design (.5 credit/unit) |
| French 1 (1 credit/unit) |  |
| French 2 (after French 1) (1 credit/unit) | Industrial Technology |
| Spanish 1 (1 credit/unit) | Computer Aided Drafting I (1 credit/unit) |
| Spanish 2 (after Spanish 1) (1 credit/unit) | Woodworking I (1 credit/unit) |
| German 1 (1 credit/unit) |  |
| German 2 (after German 1) (1 credit/unit) | Engineering |
|  | PLTW Introduction to Engineering (1 credit/unit) |
| Fine Arts |  |
| Introduction to Art (1 credit/unit) |  |
| Chorus (1 credit/unit) | Electives |
| Music Appreciation Through Guitar (1 credit/unit) | Driver's Education/First Aid Safety ( .5 credit/unit) |
| Concert Band (1 credit/unit) | (must be turning 15 years-old by the end of the course) |
| Actors Studio: Improv \& Sketch Comedy (.5 credit/unit) | Outdoor Education: Hunting \& Trapping (. 5 credit/unit) |
| Actor's Studio II (after Actor's Studio) (. 5 credit/unit) Technical Theatre I ( 5 credit/unit) | Outdoor Education: Fishing \& Recreation (. 5 credit/unit) |
| Technical Theatre II (after Tech. Theatre I) (.5 credit/unit) |  |
| From Broadway to Hollywood (. 5 credit/unit) |  |
|  |  |
| 1 credit/unit $=2$ semesters $=$ full-year course .5 credit/unit $=1$ semester $=1 / 2$-year course |  |
|  |  |
| All courses are dependent on enrollment. If not enough students enroll, the course will not be offered. |  |

## FHSD Courses Available to 10th-Graders

10th-graders may select from any courses listed on the 9th-grade list, plus the courses listed below - as
long as the prerequisites have been completed.

| English Language Arts) | Fine Arts |
| :---: | :---: |
| English II (1 credit/unit) | Ceramics I (. 5 credit/unit)* |
| Honors English II (1 credit/unit) | Ceramics II (after Ceramics I) (. 5 credit/unit)* |
| Debate ( 5 credit/unit) | Drawing I (. 5 credit/unit)* |
| Black Literature (. 5 credit/unit) - pending Board approval | Drawing II (after Drawing I) (. 5 credit/unit)* |
|  | Digital Art \& Design I (. 5 credit/unit)* |
| Social Studies | Digital Art \& Design II (after Digital Art \& Design I) (. 5 |
| Modern World History (1 credit/unit) | credit/unit)* |
| AP European History (1 credit/unit) | Painting II (after Painting I) ( 5 credit/unit)* |
| AP World History (1 credit/unit) | Printmaking I ( 5 credit/unit)* |
| Contemporary Issues (. 5 credit/unit) | Printmaking II (after Printmaking I) (.5 credit/unit)* |
| Black History (. 5 credit/unit) - pending Board approval | Sculpture I (. 5 credit/unit)* ${ }^{\text {* }}$ |
|  | Sculpture II (after Sculpture I) (. 5 credit/unit)* |
| Science | AP Art History (1 credit/unit) |
| Biology (1 credit/unit) | Treble Choir (1 credit/unit)+ |
| Honors Biology (1 credit/unit) | Concert Choir (1 credit/unit)+ |
| Chemistry (after Phys. Science \& Algebra I) (1 credit/unit) | Chamber Choir (1 credit/unit)+ |
| Honors Chemistry (after Phys. Science \& Algebra I) (1 | AP Music Theory (1 credit/unit) |
| credit/unit) | Symphonic Band (1 credit/unit)+ |
| AP Chemistry (after Pre-AP Chemistry \& Algebra II) (1 | Wind Ensemble (1 credit/unit)+ |
| credit/unit) | Jazz Ensemble (1 credit/unit)+ |
| Physics I (same time as Algebra II or after) (1 credit/unit) | Intensified Theatre (. 5 credit/unit)+ |
| AP Physics (after Algebra II \& same time as Pre-Calc. | *All of these art classes require that you take Intro. to Art |
| Honors - or after) (1 credit/unit) | first |
| Environmental Science (after Biology) (1 credit/unit) |  |
| Earth Science (after Biology) (1 credit/unit) | Physical Education |
| Biology II (Zoology/Botany) (after Biology) (1 credit/unit) | Fitness for Life (. 5 credit/unit) |
| Honors Biology II (Human Genetics) (after Biology) (1 | Team Sports (. 5 credit/unit) |
| credit/unit) | Net Sports \& Lifetime Activities (. 5 credit/unit) |
| PLTW Human Body Systems (after PLTW Prin. of Biomed.) | Introduction to Weight Training (. 5 credit/unit) |
| (1 cr.) | Advanced Weight Training (after Intro. Wt. Training) (. 5 cr |
| Sciences (1 credit/unit) | Sports Enhancement (. 5 credit/unit) |
|  |  |
|  | Practical Arts |
| Math | Business \& Computer Technology |
| Geometry (1 credit/unit) | Accounting I (1 credit/unit) |
| Honors Geometry (1 credit/unit) | AP PLTW Computer Science A (after AP PLTW Computer Science Principles) (1 credit/unit) |
| Algebra II (after Geometry) (1 credit/unit) | PLTW Cybersecurity (after AP PLTW Computer Science |
| Honors Algebra II (after Geometry) (1 credit/unit) Algebra III (after Algebra II) (1 credit/unit) | Principles) (1 credit/unit) |
| Math Analysis (after Algebra II) (. 5 credit/unit) |  |
| Statistics (same time as Algebra II - or after) (.5credit/unit) | Family \& Consumer Sciences |
| AP Statistics (same time as Honors Alg. II or after Alg. II) (1 cr.) | Child Development III (. 5 credit/unit) -after Child Development I\&II in prior years |
| Honors Pre-Calculus (after Algebra II) (1 credit/unit) | Human Relations ( 5 credit/unit) |
| Discrete Math (after Algebra II) (1 credit/unit) | Advanced Fashion Construction+ (.5 credit/unit) |
|  | Fashion ( 5 credit/unit) |
| World Language | Culinary Arts (1 credit/unit) (after Foods I \& Foods II) |
| French 2 (after French 1) (1 credit/unit) |  |
| Honors French 3 (after French 2) (1 credit/unit) | Industrial Technology |
| Spanish 2 (after Spanish 1) (1 credit/unit) | Computer Aided Drafting II (1 credit/unit) |
| Honors Spanish 3 (after Spanish 2) (1 credit/unit) | Woodworking II (1 credit/unit) |
| Honors German 3 (after German 2) (1 credit/unit) |  |
|  | Engineering <br> PLTW Civil Engineering \& Architecture (1 credit/unit) <br> PLTW Principles of Engineering (after Intro. to Eng.) (1 cr.) |

+ requires permission to enroll AP=Advanced Placement PLTW= Project Lead the Way
1 credit/unit $=2$ semesters $=$ full-year course .5 credit/unit $=1$ semester $=1 / 2$-year course


## FHSD Courses Available to 11th-Graders

11th-graders may select from any courses listed on the 9th-grade and 10th-grade lists, plus the courses listed below- as long as the prerequisites have been completed.


## FHSD Courses Available to 12th-Graders

12th-graders may select from any courses listed on the 9th-grade, 10th-grade and 11th-grade lists, plus the courses listed below- as long as the prerequisites have been completed.


## ACTIVITIES INFORMATION

## Philosophy of Activities

Francis Howell School District considers activities an integral part of any program of education: providing experiences that will help young men and women physically, mentally and emotionally. Students are stimulated to want to win and excel, but the principles of good sportsmanship prevail at all times to promote the educational values of contests. The element of competition and winning, though it exists, is controlled so it does not determine the nature of the program. This is considered to be educationally and psychologically sound because of the training it offers for living in a competitive society.

We believe that participation in activities, both as a player and as a student spectator, are an integral part of the student's educational experiences. Such participation is a privilege that carries with it responsibilities to the school, to the team, to the student body, to the community and to the students themselves. In their play and their conduct, he/she is representing all the groups. Hopefully, such experiences contribute to the knowledge, skill and emotional patterns that they possess, thereby making him/her a better person and citizen.

## Co-Curricular Activity Fees

Many high school elective courses in the practical arts or fine arts genre have a co-curricular club or activity that enhance the curricular experience and often provide opportunities for students to compete at the state, regional and national level. If a student joins the co-curricular club and activity, they will be assessed a $\$ 40$ District Activity Fee for their participation. The FHSD high school activity fee will be in addition to other club dues, class fees or activity participation fees assigned by the group sponsor. Students receiving Free and Reduced Lunch benefits are eligible to apply for an activity fee waiver.

## Who Is Eligible for Activities?

In order for a student to participate in activities, they must fulfill completely all the regulations and requirements set forth by the (Missouri State High School Activities Association (M.S.H.S.A.A). and the Francis Howell School District.

## M.S.H.S.A.A Eligibility Standards

1. Student must be enrolled in courses offering 3.0 units and must earn 3.0 credits the preceding semester. Summer school credits may apply to state eligibility standards provided the course is necessary for graduation or promotion and is placed on the school transcript. No more than 1.0 credit in summer school shall be counted toward $1^{\text {st }}$ semester eligibility.
2. Must not have reached $19^{\text {th }}$ birthday prior to July $1^{\text {st }}$ preceding the opening of the school year.
3. Are ineligible after the class in which they entered $9^{\text {th }}$ grade has graduated.
4. Are ineligible for varsity competition for one calendar year if they transfer to Francis Howell from either a public or parochial high school without a corresponding change of residence of parent or guardian. (There is a possibility of a waiver when transferring from private to public.)
5. Must be a good school citizen. Behavior unbecoming a participant could result in the principal revoking the privilege of a student to participate in an activity temporarily or permanently.
6. Must have satisfactorily passed the physical examination. The MSHSAA physical is good for two calendar years from the date of examination. The MSHSAA Pre-Participation form must be submitted annually.
7. Must have a signed parent permission form and activities handbook acknowledgment form to participate in interscholastic activities.
8. All $9^{\text {th }}$ grade students who have been promoted from the $8^{\text {th }}$ grade are automatically eligible during their first semester of high school, but must meet district/state requirements their second semester.

## Francis Howell School District Eligibility Standards

Any student who represents one of the Francis Howell High Schools by participating on athletic teams or other groups that perform in public (bands, chorus, dramatics, cheerleaders, pommers, speech, etc.) shall meet the standards of eligibility specified in the constitution of the Missouri State High School Activities Association and those additional standards of the Francis Howell School District.

1. Student must maintain a minimum of 1.5 GPA .
2. Student must attend all practices, contests and other performances unless excused by the coach
3. Student must not wear school equipment at any time except while participating in practice or school contest.
4. Once a student has made a team in a sport, student cannot go out for another sport until the first sport season is over.
5. Student must not have any outstanding athletic fines.
6. Student must attend school the entire day of a game and must attend school on Friday to play
on Saturday.
7. Student must have satisfactorily passed a physical examination dated after February $1^{\text {st }}$ and preceding the first day of the season for the sport in which student is to participate. The examination report must specifically state that student "may participate in sports," and must be signed by the physician who conducted the examination.
8. Any student who falsifies the physical examination form or any other required participation form is subject to suspension and/or permanent removal from the team or group by the Activities Director and/or Building Principal, and may be suspended or removed from additional activities depending upon the nature and magnitude of the offense.
9. Student must be a creditable school citizen in accordance with the following standards:

- Students who are serving out-of-school (or in-school) suspension may not practice for, or participate in, school activities during the suspension. Multiple and/or serious violations of the Code of Student Conduct may result from current and future school activities.
- Student must not use, possess or distribute tobacco products, including cigarette or vaping products, while on school property or at school activities, whether on or away from district property.
- Student must not use, possess or distribute alcohol or controlled substances at any time, whether on or away from district property.
- Student must not be arrested for, charged with, or convicted of a felony or misdemeanor under either criminal or juvenile law, whether the offense occurs on or away from district property.

When a student is accused of an offense under either criminal or juvenile law, the charges may be dismissed or the student acquitted due to the high standard of proof required under criminal and juvenile proceedings; guilt beyond a reasonable doubt. However, the District reserves the right to make an independent determination regarding whether the student engaged in the misconduct alleged, and is required only to establish by a preponderance of the evidence (more likely than not) that the student engaged in such misconduct.

## Transfer Students

All participants new to the Francis Howell School District in the past year are required to file a Transfer of Eligibility form.

## Virtual Students

Virtual students who maintain FHSD enrollment under House Bill 1552 and who meet all other MSHSAA and FHSD eligibility criteria will be allowed to participate in MSHSAA-sponsored activities. Full-time virtual students who transfer to a virtual host district as required by House Bill 1552 will not be able to participate in FHSD's MSHSAA-sponsored activities because they are no longer FHSD students.

## NCAA - Eligibility Center

If a student is planning to enroll in college as a freshman and wishes to participate in Division I or Division II athletics, he/she must be certified by the NCAA. The Eligibility Center ensures consistent application of NCAA initial eligibility requirements for all prospective student athletes at all member institutions.

## Athletes should code 9999 on their ACT Registration Form in order for the NCAA to receive their official test scores.

If you have questions about the NCAA eligibility, please call the NCAA Eligibility Center toll-free at 877-262-1492. The web address is www.eligibilitycenter.org

Select Login/New Account
Supply email address to receive instructions for registering
To view the list of approved core courses, click on "For High School", view Core Course list, and enter the high school code: 262-851 for FHC; 262-845 for FHHS; and 262-844 for FHN. Approved core courses are designated in this enrollment guide with "NCAA approved" after the title of the course.

## It is the responsibility of student athletes to register with the NCAA Eligibility Center at:

 www.eligibilitycenter.orgThe NCAA has released a SAT/ACT sliding scale that corresponds with the GPA requirements for the class of 2016 and beyond. Any student-athlete who is even remotely considering the possibility of playing a sport collegiately needs to understand the requirements.

## Here is a summary of the new D1 academic requirements for a Full Qualifier:

- Earn a core course GPA of at least 2.30.
- 10 of the $\mathbf{1 6}$ core course requirements must be satisfied prior to the start of the senior year.
- $\mathbf{7}$ of those $\mathbf{1 0}$ core courses must be from the English, Math and Science subsections.
- Earn the ACT/SAT score matching your core-course GPA on the Division I sliding scale.
- Graduate high school


## Here is a summary of the new D2 academic requirements for a Full Qualifier:

- Earn a core course GPA of at least 2.20.
- Complete 16 core course requirements in the appropriate areas.
- 12 of those 16 core courses must be from the English, Math, Social Studies and Sciencesubsections.
- Earn the ACT/SAT score matching your core-course GPA on the Division II sliding scale.
- Graduate high school

The NCAA has also introduced a status for students who do not meet the full qualifier requirements. An "Academic Redshirt" may receive a scholarship and practice with their team, but may not participate in game competition as a college freshman. Students with a core course GPA between 2.00 and 2.29 cannot attain "Full Qualifier" status, but may achieve "Academic Redshirt" status by meeting minimum sliding scale test score requirements.

There is a sliding scale on the NCAA website that shows the ACT/SAT score requirements. The scale uses the ACT sum score, which is calculated by adding English, math, reading and science subscores. The NCAA does not use the writing component of the ACT.

Finally, just because a student-athlete meets the minimum NCAA academic standards, it doesn't mean they will be admitted to play sports at the college of their choice. Many universities have academic standards for incoming freshman athletes that are much higher than the NCAA minimum requirements.

Student-athletes must start tracking courses early. A student-athlete should calculate their initial core course GPA at the end of their first semester in high school and continue to do so each semester thereafter.

## NAIA-Eligibility Center

If a student is planning to enroll in college as a freshman and wishes to participate in National Association of Intercollegiate Athletics, he/she must be certified by the NAIA. The Eligibility Center ensures consistent application of NAIA initial eligibility requirements for prospective student athletes at all member institutions.

## Athletes should code 9876 on their ACT Registration Form in order for the NAIA to receive their official test

 scores.If you have questions about the NAIA eligibility, please call the NAIA Eligibility Center at 816-595-8180.
It is the responsibility of student athletes to register with the NAIA Eligibility Center at www.playnaia.org

## COURSE DESCRIPTIONS

## A+ TUTORING

0304313
A+ TUTORING FOR CREDIT
This course is only available for registration through the high school A+Coordinator and is based on availability of tutor/mentor needs in the building.

A+ Tutoring For Credit is an opportunity for students to earn credit for A+ hours while mentoring or tutoring peers in a classroom for the length of a semester. All hours must be completed at the student's high school during regular times of attendance. Class assignments will be based on availability and classroom needs. A+ Tutoring For Credit requires more hours than the typical criteria for A+ mentoring and tutoring as it is a semester course. Students must maintain a record of good citizenship according to the State A+ Schools Program, FHSD Code of Conduct, and High School Student Handbook.

## BUSINESS \& COMPUTER TECHNOLOGY (Practical Arts Credit)

0303001 Semester 1
0303002 Semester 2

ACCOUNTING I (BMT)
Prerequisite: None Grade 10-12

1 Unit

Accounting is an essential course for anyone planning a college major in business or an immediate career in the business world. This course is especially appropriate for small business (single ownership or partnership) operation. Emphasis is placed on why financial records are kept, how they are kept, and how to use them as guidelines for decision making. Qualifies for articulated Associate of Applied Science (A.A.S.) credit at St. Charles Community College (not A.A. transfer credit).

Note: This course may be offered in a Blended Learning Format at Francis Howell Central and Francis Howell High Schools. Interested students should sign up for the Blended Learning section.

## BL0303001 Semester 1 ACCOUNTING 1 BL0303002 Semester 2 ACCOUNTING 1

The Advanced Accounting 2 course is designed to provide high school students with an in-depth understanding of the principles and practices of accounting beyond the basics. This course builds upon the foundation of financial and managerial accounting concepts and delves into more complex accounting topics, preparing students for a deeper comprehension of financial reporting, analysis, and decision-making processes. Workers with accounting skills are needed in every industry, as they play key roles in financial management of private businesses, government agencies, schools, and nonprofits. May qualify for dual credit at Lindenwood University.

0303271 Semester 1 0303272 Semester 2

AP ECONOMICS (AND PERSONAL FINANCE*) (BMT)- NCAA-approved 1 Unit
Prerequisite: Algebra II with "C" average recommended or concurrently enrolled in Algebra II
Grade 11-12
Honors Point

The purpose of the AP Economics course is to give students a thorough understanding of the principles of micro and macroeconomics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets, and includes the study of factor markets and of the role of governments in promoting greater efficiency and equity in the economy. The study of national income and price-level determination and also developing students' familiarity with economics performance measures, the financial sector, stabilization policies, economic growth, and international economies will be included. Students are expected (although not required) to take the Advanced Placement Micro Economics and Macro Economics exam.
*The Personal Finance Proficiency End-of-Course exam will be administered in accordance with the state graduation requirements. Students must pass the proficiency test to gain credit for Personal Finance in AP Econ. Students do not have to pass the AP exam to receive Personal Finance credit.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central High School. Interested students should sign up for the Blended Learning section.
BL0303271 Semester 1 AP ECONOMICS (AND PERSONAL FINANCE*)
BL0303272 Semester 2 AP ECONOMICS (AND PERSONAL FINANCE*)

0303163
BUSINESS ENTREPRENEURSHIP (BMT)
. 5 Unit
Prerequisite: None
Grade 11-12
The primary goal for this course is to introduce students to the operation of small businesses and entrepreneurs and the impact of the economy and marketing trends on business. The students will operate a student company in which they will decide what product to sell, calculate its retail price, how to market the item, and how much profit (or loss) was made. Students will share the profits of the company for the semester. Qualifies (in conjunction with Introduction to Business) for articulated Associate of Applied Science (A.A.S.) credit at St. Charles Community College (not A.A. transfer credit.)

Note: This course may be offered in a Blended Learning Format at Francis Howell Central High School.
Interested students should sign up for the Blended Learning section.
BL0303163 BUSINESS ENTREPRENEURSHIP

## 0303501 Semester 1 BUSINESS TECHNOLOGY \& CAREER PREP (BMT) <br> 0303502 Semester 2 Prerequisite: None <br> Grade 11-12

This course is designed to prepare students for college business classes and to develop qualities and skills necessary for entry-level business employment. Students learn advanced word processing, spreadsheets, database management, presentation design, desktop publishing, and workplace readiness skills. Students will also create a resume and learn how to prepare for an interview. This technology class is essential for college and career. Internet use is an important part of this course. Senior students enrolled in this course are eligible to earn additional school credit through their part-time job as described in Business/Cooperative Work Experience.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central High School and Francis Howell High School. Interested students should sign up for the Blended Learning section.

> BL0303501 Semester 1 BUSINESS TECHNOLOGY \& CAREER PREP
> BL0303502 Semester 2 BUSINESS TECHNOLOGY \& CAREER PREP

BUSINESS/COOPERATIVE WORK EXPERIENCE (BMT)
Prerequisite: Enrollment in Business Technology Grade 12

Students receive on-the-job training in a business/office situation. The instructional program is planned, supervised, and evaluated by both the teacher-coordinator and the employer. One unit of credit is earned for working 10 to 19 hours each week. Two units of credit are earned for working 20 or more hours each week. The amount of credit may be different each semester.

0304073
GRAPHIC DESIGN WITH ADOBE I (BMT) (AC)
. 5 Unit
Prerequisite: None
Grade 9-12
Students will use industry standard graphic design software such as Adobe Photoshop, and Adobe InDesign CC to design a variety of business and promotional publications such as flyers, brochures, newsletters, menus, magazine covers, marker boards and calendars. This course will also include: graphic design terminology, digital images to create typefaces, layouts and graphics. Qualifies for articulated Associate of Applied Science (A.A.S.) credit at St. Charles Community College (not A.A. transfer credit).

Note: This course may be offered in a Blended Learning Format at Francis Howell Central High School. Interested students should sign up for the Blended Learning section.

BL0304073 Semester 1 GRAPHIC DESIGN WITH ADOBE I

0304083
GRAPHIC DESIGN WITH ADOBE II (BMT) (AC)
. 5 Unit
Prerequisite: Successful completion of Visual and Graphic Design I Grade 9-12

Graphic Design with Adobe II is the continuation of Graphic Design with Adobe I. Students will develop advanced graphic design skills using industry-standard software such as Adobe Photoshop, Adobe InDesign, and Adobe Illustrator. Students will gain the skills necessary to communicate effectively using graphic design software while producing personal and professional publications. Editing images and creating page layouts for print and digital publication will be the emphasis of the coursework. Completion of Graphic Design with Adobe II can lead to accreditation as an Adobe Certified Associate of Visual Communication (ACA), which is an Industry Recognized Credential (IRC) beneficial to student's continuing education or entering the workforce after graduation. This IRC will be noted on student's transcription.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central High School. Interested students should sign up for the Blended Learning section.

BL0304083 GRAPHIC DESIGN WITH ADOBE II

## 0303301 Semester 1 <br> INTRODUCTION TO BUSINESS (BMT) <br> 1 Unit 0303302 Semester 2 <br> Prerequisite: None <br> Grade 9-10

This course is designed to introduce students to how business works in today's society and to provide a foundation for other business courses. Students will explore aspects of the business world including marketing, management, economics, ethics, social responsibility, job and interview readiness skills, career exploration, business communication and technology. Workplace communication, leadership skills and presentation media will be taught throughout the class. This course will also serve as a preview to other courses offered in the business department. Qualifies (in conjunction with Business Entrepreneurship/ Junior Achievement or Personal Finance for articulated Associate of Applied Science (A.A.S) credit at St Charles Community College (not A.A. transfer credit)

This course is designed to help students learn essential Microsoft computer applications while refining fundamental keyboarding skills and enhancing knowledge of basic file management. Students will effectively use Microsoft Office to apply word processing and desktop publishing functions to create, edit, manipulate and print documents in MS Word. They will learn to create spreadsheets, produce and edit charts and graphs, sort and calculate using MS Excel. They will also learn to design and enhance presentations using MS PowerPoint. Throughout this course students will improve overall computer skills for personal, academic and professional success.

## 0403801 Semester 1

MARKETING I (BMT)
1 Unit 0403802 Semester 2 Prerequisite: None Grade 11-12

This course is designed to introduce the student to the field of marketing, covering such topics as: advertising, promotions, product development, distribution, communication, human relations, and career exploration. Marketing students are strongly encouraged to join DECA, an Association of Marketing Students. This course is recommended for the college-bound student interested in marketing or business, as well as the non-college bound student interested in marketing occupations. Senior students enrolled in Marketing I may obtain a part-time job as described in Marketing/Cooperative Work Experience. Qualifies (if followed by Marketing II) for articulated Associate of Applied Science (A.A.S.) credit at St. Charles Community College (not A.A. transfer credit).

Note: This course may be offered in a Blended Learning Format at Francis Howell Central High School and Francis Howell High School. Interested students should sign up for the Blended Learning section.

## BL0403801 Semester 1 MARKETING I <br> BL0403802 Semester 2 MARKETING I

| 0403901 Semester 1 | MARKETING II (BMT) |
| :--- | :--- |
| 0403902 Semester 2 | Prerequisite: Successful completion of Marketing I <br>  <br>  <br>  <br> Grade 11-12 <br> Honors Point |

This course is designed to give additional attention to the topics covered in Marketing I with an emphasis on personal selling, market research, pricing and entrepreneurship. This is a project-based course in which the students will have the opportunity to develop sales presentations, conduct a marketing research project as it relates to advertising, create a sales catalog using different pricing strategies and investigate the process of starting your own business. Marketing students are strongly encouraged to join DECA, an Association of Marketing Students. This course is recommended for the college and non-college bound student. Students enrolled in Marketing II are eligible to earn additional school credit through their part-time job as described in Marketing/Cooperative Work Experience. Qualifies (in conjunction with Marketing I) for articulated Associate of Applied Science (A.A.S.) credit at St. Charles Community College (not A.A. transfer credit) and dual credit at Lindenwood University.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central High School. Interested students should sign up for the Blended Learning section.

## BL0403901 Semester 1 MARKETING II <br> BL0403902 Semester 2 MARKETING II

Students receive on-the-job training in a marketing/sales area of their choice. Marketing jobs provide educational opportunities beyond the school environment by working on an approved job site during the afternoon or evening. One unit of credit is earned for working 10 to 19 hours each week. Two units of credit are earned for working 20 or more hours each week. The amount of credit may be different each semester. This instructional program is planned, supervised, and evaluated by both the teacher-coordinator and employer.

0303903
MULTIMEDIA I (BMT) (AC)
. 5 Unit
Prerequisite: None
Grade 9-12
This course will introduce students to the basics of multimedia, covering concepts such as Podcasting, video production, sound and video capture, using various editing software for different multimedia applications. The course provides hands-on experiences for creating beginning computer multimedia productions. Students will also learn how to create and keep an electronic portfolio of their projects throughout the semester.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central and Francis Howell High School. Interested students should sign up for the Blended Learning section.

BL0303903 MULTIMEDIA I

0303923
MULTIMEDIA II (BMT) (AC)
. 5 Unit
Prerequisite: Multimedia I
Grade 9-12
Multimedia II is the continuation of Multimedia I. Students will continue to develop skills in project management and collaboration, design, research and communication, and professional video production. Each project will add more challenging skills as students learn storytelling, capturing and editing video and audio. Students will have the opportunity to earn accreditation as an Adobe Certified Professional, which is an Industry Recognized Credential beneficial to students entering the field of technology after graduation. Students will also be keeping an electronic portfolio of all of their video projects to use as a showcase of their work to colleges and potential employers.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central. Interested students should sign up for the Blended Learning section.

BL0303923 MULTIMEDIA II

0303803
PERSONAL FINANCE (BMT)
. 5 Unit
Grade 11-12
Students will learn how to maximize their earnings, create a budget, plan for major expenditures, save for the future, invest wisely, and keep financial records. Students will learn about banking, taxes, credit, insurance, the stock market, and retirement accounts. Personal Finance prepares students to handle personal financial matters as a teenager and adult, including how to make money work for them. Students will be involved in a variety of simulations and classroom activities that can put them on the road to becoming an educated consumer. This course fulfills the state requirement for .5 credits of Personal Finance. In conjunction with Introduction to Business, qualifies for articulated Associate of Applied Science (A.A.S.) credit at St. Charles Community College (not A.A. transfer credit).

Students have the opportunity to take Personal Finance online, in a blended learning environment, which means some of the coursework will be completed online and some of the coursework will be done in class with the teacher. This course will be offered at the beginning or the end of the day and will have limited enrollment.

Students will learn how to maximize their earnings, create a budget, plan for major expenditures, save for the future, invest wisely, and keep financial records. Students will learn about banking, taxes, credit, insurance, the stock market, and retirement accounts. Personal Finance prepares students to handle personal financial matters as a teenager and adult, including how to make money work for them. Students will be involved in a variety of simulation and classroom activities that can put them on the road to becoming an educated consumer. This course fulfills the state requirement for 5 credits of Personal Finance. In conjunction with Introduction to Business, qualifies for articulated Associate of Applied Science (A.A.S.) credit at St. Charles Community College (not A.A. transfer credit).

0303981 Semester 1
AP PLTW COMPUTER SCIENCE PRINCIPLES (BMT) (IET)
1 Unit
Prerequisite: None
Grade 9-12
Honors Point

AP PLTW Computer Science Principles is the first of three Computer Science course offerings and part of a curriculum known as Project Lead the Way (PLTW). This is a foundation course in the Computer Science curriculum sequence that offers a dynamic high school program providing students with real-world learning and hands-on experience. Using Python ${ }^{\mathrm{R}}$ as a primary tool, students learn the fundamentals of coding, data processing, data security, and task automation, while learning to contribute to an inclusive, safe, and ethical computing culture. PLTW strives on student-driven learning while students collaborate to create and present solutions that can improve people's lives. The course is planned for a rigorous pace!! Building enthusiasm for rigorous Computer Science among students is a primary goal of the course. Students need to have an open mind, a desire to work hard, \& have a strong work ethic. It is highly recommended that students have a strong basis for a variety of math concepts. This course meets the third course requirement of the PLTW Engineering sequence. Students may choose to take the AP PLTW Computer Science Principles exam upon completion of this course. Options for college credit may be available depending on college acceptance requirements.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central. Interested students should sign up for the Blended Learning section.

$$
\begin{array}{ll}
\text { BL0303981 Semester } 1 & \text { AP PLTW COMPUTER SCIENCE PRINCIPLES } \\
\text { BL0303982 Semester } 2 & \text { AP PLTW COMPUTER SCIENCE PRINCIPLES }
\end{array}
$$

0303911 Semester 1 0303912 Semester 2

AP PLTW COMPUTER SCIENCE A (BMT) (IET)
Prerequisite: AP PLTW Computer Science Principles
Grade 10-12
Honors Point

AP PLTW Computer Science A is an advanced Computer Science course that follows AP PLTW Computer Science Principles and is part of a curriculum known as Project Lead the Way (PLTW). Students collaborate to produce programs and leverage those programs for distributed collection and data processing. Students analyze, adapt, and improve each other's programs while working primarily in JAVA ${ }^{\text {TM }}$ and other industry-standard tools. After completing this course, students are eligible to sit for the AP PLTW Computer Science A test. Options for college credit may be available depending on college acceptance requirements.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central. Interested students should sign up for the Blended Learning section.
BL0303911 Semester 1 AP PLTW COMPUTER SCIENCE A BL0303912 Semester 2 AP PLTW COMPUTER SCIENCE A

PLTW CYBERSECURITY (BMT) (IET)
1 Unit 0303992 Semester 2

Prerequisite: AP PLTW Computer Science Principles
Grade 10-12
Honors Point
This course 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 PLTW Cybersecurity, students solve problems by understanding and closing these vulnerabilities. Cybersecurity 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. Options for college credit may be available depending on college acceptance requirements.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central. Interested students should sign up for the Blended Learning section.

## BL0303991 Semester 1 PLTW CYBERSECURITY <br> BL0303992 Semester 2 PLTW CYBERSECURITY

## 0304101 Semester 1 0304102 Semester 2

## PLTW COMPUTER SCIENCE CAPSTONE (BMT) (IET)

1 Unit
Prerequisite: AP PLTW Computer Science A or PLTW
Cybersecurity recommended
Grade 12
Honors Point
Students who have completed AP PLTW Computer Science Principles, and at least one of AP PLTW Computer A or PLTW Cybersecurity, will have the opportunity to take this independent study style course. Students will work through scenarios, and will choose a "problem" to solve using a technology-based solution. Students will spend the year researching, developing and testing their program or product and will present their findings at the end of the year PLTW Showcase.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central. Interested students should sign up for the Blended Learning section.

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\begin{array}{ll}
\text { BL0304101 Semester } 1 & \text { PLTW COMPUTER SCIENCE CAPSTONE } \\
\text { BL0304102 Semester } 2 & \text { PLTW COMPUTER SCIENCE CAPSTONE }
\end{array}
$$

## 0303103

WEB PAGE DESIGN I (BMT) (IET)
. 5 Unit
Prerequisite: None
Grade 9-12
This course will cover the fundamental concepts of Web page design and creation, Web graphics and how the Internet and World Wide Web works. Students will use website creation software that allows the student to see what the pages look like as it is created, and will be able to focus on design and layout skills. Students will learn to code using HTML 5 and will use online development programs to build web sites. Students will combine text images, sound, and interactivity to web pages. Students will be introduced to multimedia software.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central. Interested students should sign up for the Blended Learning section.

BL0303103 WEB PAGE DESIGN I

This course explores the use of Web programming languages (HTML, CSS, etc.), graphics applications, and other web authoring tools to design, edit, and maintain Web sites and pages as a continuation of Web Page Design I. Students will expand their knowledge about hosting services that may be used to launch a Web site. Topics such as Web design principles, user interfaces, special effects, animation, navigation, and emerging Web technologies are included in the coursework.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central. Interested students should sign up for the Blended Learning section.

BL0303123 WEB PAGE DESIGN II

0303203
YOU AND THE LAW (BMT) (HuS)
. 5 Unit
Prerequisite: None
Grade 11-12
You and The Law will guide students through the basic legal principles relevant to their roles as citizens, consumers, and employees exploring personal, business, and consumer laws beyond American Government coursework. Course topics include characteristics of the U.S. civil and criminal laws, rights of private property, basic elements of contracts, employer-employee relations, landlords and tenants' rights, individual rights, and laws pertaining to computer use. This course is offered to tenth grade students at FHN.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central. Interested students should sign up for the Blended Learning section.

## BL0303203 YOU AND THE LAW

## Business and Computer Technology Student Organizations

Students in Marketing courses (Marketing I, Marketing II, or Marketing Work Program) have the opportunity to join DECA, a premiere student organization featuring student leadership opportunities, travel, and competitions. Membership is not required, but is encouraged. Membership fees range from \$20-\$25, depending on building.

Students can also join FBLA, Future Business Leaders of America. FBLA is not tied to any specific course. It also includes opportunities for development of leadership and competitions in various areas related to business. Membership is not required, but is encouraged for students in Business courses. Memberships fees range from $\$ 5-\$ 25$ depending on building.

ENGLISH LANGUAGE ARTS

## Graduation Requirements:

4.0 units of English Language Arts credit

## College Preparatory Recommendations:

4.0 (or more) units of English Language Arts credit

| GRADE | $9^{\text {TH }}$ | $10^{\text {TH }}$ | $11^{\text {TH }}$ | $12^{\text {TH }}$ |
| :---: | :---: | :---: | :---: | :---: |
| Required Courses | English I* | English II* | English III* | English IV* |
|  | Honors English I* | Honors English II* | AP Language and Composition* | AP Literature and Composition* |
|  |  |  | English Language <br> Arts Electives | English Language <br> Arts Electives |


| GRADE | $9^{\text {TH }}$ | $10^{\text {TH }}$ | $11^{\text {TH }}$ | $12^{\text {TH }}$ |
| :---: | :---: | :---: | :---: | :---: |
| Elective Courses | Journalism | Journalism | Journalism | Journalism |
|  | Broadcast Journalism | Broadcast Journalism | Broadcast Journalism | Broadcast Journalism |
|  | Speech I | Speech I | Speech I | Speech I |
|  | Speech II | Speech II | Speech II | Speech II |
|  |  | Debate | Debate | Debate |
|  |  | Black Literature pending Board approval | Black Literature pending Board approval | Black Literature pending Board approval |
|  |  |  | Creative Writing | Creative Writing |
|  |  |  | The Novel | The Novel |
|  |  |  | Sports Literature \& Composition | Sports Literature \& Composition |
|  |  |  | Mythology | Mythology |


| GRADE | $9^{\text {TH }}$ | $10^{\text {TH }}$ | $11^{\text {TH }}$ | $12^{\text {TH }}$ |
| :---: | :---: | :---: | :---: | :---: |
| English <br> Language Arts | Digital Photojournalism | Digital Photojournalism | Digital Photojournalism | Digital Photojournalism |
| Special Elective Courses (These |  | Honors Yearbook Production** | Honors Yearbook Production** | Honors Yearbook Production** |
| courses receive Practical Arts Credit or Elective Credit.) |  | Honors Newspaper Production** | Honors Newspaper Production** | Honors Newspaper Production** |

* These courses are ACT Prep courses.
**These courses may be taken in multiple years with instructor approval.

This course is a foundational high school English course that students need to be college and career-ready that focuses on reading, writing, listening/speaking, grammar, vocabulary, and research. The emphasis on this course is on both reading fiction and nonfiction, poetry, and drama. Written compositions in the course will include a variety of genres and for different purposes depending on the audience and purpose.

The Honors English I course is a rigorous course designed to focus on the necessary foundational skills to ensure success in future AP English Language Arts coursework. This course will focus on teaching students to read closely and critically as well as to write analytically. Within this course, students will focus on the author's purpose for including specific word choices and how those words contribute to the overall meaning of the text. Blended writing and research will be integrated throughout the course. This course is designed to prepare students for success in more advanced placement courses in future course study.

## 0505151 Semester 1 ENGLISHII-NCAA-approved <br> 0505152 Semester 2 Prerequisite: English I <br> ACT Prep Course

This skill-based course will focus on the literacy skills necessary to be college and career ready: reading, writing, listening/speaking and research. Emphasis will be placed on approaching reading and writing as processes. Expository, narrative, descriptive and persuasive writing will be addressed. Research will be integrated throughout the course. Students will read and respond to literature from a variety of cultures.

## 0505251 Semester 1 0505252 Semester 2

HONORS ENGLISH II - NCAA-approved
Prerequisite: English I and meet honors criteria ACT Prep Course

1 Unit

The course is for the advanced student and will be an introduction to the literacy skills students will need to be college and career ready and in future AP classes. This course will focus on reading, writing, listening/speaking, and research. Emphasis will be placed on approaching reading and writing as processes. Expository and argumentative writing will be addressed. Research will be integrated throughout the course. Students will read and respond to literature using self-exploration skills and cross-curricular studies. This course will be vertically aligned to the AP standards and will be designed to achieve success in future AP classes.

| 0505301 Semester 1 | ENGLISHIII-NCAA-approved | 1 Unit |
| :--- | :--- | :--- |
| 0505302 Semester 2 | Prerequisite: English II |  |
|  | ACT Prep Course |  |

This junior-level course will ensure students are college and career ready by exploring how American literature and writing has evolved over time. Students will explore text features, author purpose and style, societal background and influence, historical events and their impact on morale, the evolution of writing techniques and how they affect a text. The foundation of these units serves as a foundation in American literature to prepare students for European Literature.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central and Francis Howell High School. Interested students should sign up for the Blended Learning section.

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\begin{array}{ll}
\text { BL0505301 Semester } 1 & \text { Blended English III } \\
\text { BL0505302 Semester } 2 & \text { Blended English III }
\end{array}
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One of the goals of Advanced Placement English Language and Composition is to reinforce the literacy skills taught in Honors English I and Honors English II while beginning to prepare students for the challenging reading and writing they will encounter in college and life beyond high school. Although a majority of the assigned readings in the class will be nonfiction texts, an AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing. The course often allows students to write in a variety of forms - narrative, exploratory, expository, argumentative - and on a variety of subjects from personal experiences to public policies, from imaginative literature to popular culture. As in the College course, its purpose is to enable students to read complex texts with understanding and to write prose of sufficient richness and complexity to communicate effectively with mature readers. The AP Language and Composition course assumes that students already understand and use standard English grammar. The intense concentration on language use in this course should enhance their ability to use grammatical conventions both appropriately and with sophistication as well as to develop stylistic maturity in their prose.

0505401 Semester 1 0505402 Semester 2<br>ENGLISH IV ${ }_{\text {- NCAA-approved }}$<br>1 Unit<br>Prerequisite: English III<br>ACT Prep Course

Senior Literature and Composition prepares students for post-secondary literacy tasks by incorporating reading (both literature and informational texts at the college and career readiness level) with analytical student writing. Throughout the course of the year, students will develop and demonstrate their writing ability through narrative, expository, and argumentative styles. The class also incorporates various methods of integrated literacy (listening skills, media, and speaking). Students will evaluate complex texts from a range of genres, cultures and time periods. This evaluation incorporates an understanding of writing as a craft; including consideration of the author's style and purpose in writing. Through wide and deep reading, students will actively determine central themes and ideas and analyze those themes throughout the text. Through discussion and writing students may relate a work to its historical and social context while also reflecting on its relevance today.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central, Francis Howell High School, and Francis Howell North High School. Interested students should sign up for the Blended Learning section.

| BL0505401 Semester 1 | Blended English IV |
| :--- | :--- |
| BL0505402 Semester 2 | Blended English IV |

## 0505501 Semester 1 0505502 Semester 2

AP ENGLISH LITERATURE AND COMPOSITION ${ }_{-}$NCAA-approved
1 Unit
Prerequisite: English III
ACT Prep Course
One of the goals of Advanced Placement English Literature and Composition is to reinforce the literacy skills taught in Honors English I, Honors English II, and AP Language and Composition while beginning to prepare students for the challenging reading and writing they will encounter in college and life beyond high school. Students will read and analyze multiple genres of Literature including fiction, drama, and works of poetry. Students will focus on practicing all communication skills including reading, writing, speaking, listening, viewing, and finding and interpreting information. They will also be expected to combine their knowledge and experience by reflecting, exploring, and generating new ideas to solve problems and make decisions. They will study a wide variety of literature that focuses on self-exploration and expanding students' knowledge and acceptance of the variety of human experiences and cultures. They will also practice effectively communicating their ideas and experiences to others through both speaking and writing. Additionally, students will participate in rigorous course activities to help prepare them for the Advanced Placement test. Advanced credit when available.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central, Francis Howell High School and Francis Howell North High School. Interested students should sign up for the Blended Learning section.

| BL0505501 Semester I AP ENGLISH LITERATURE AND COMPOSITION |  |
| :--- | :--- |
| BL0505502 Semester 2 | AP ENGLISH LITERATURE AND COMPOSITION |

0506153
THE NOVEL (AC)-nCAA-approved
. 5 Unit
Prerequisite: English III or concurrent enrollment in English III
This course is designed for the student who enjoys reading, discussing, and analyzing literature. Students are expected to read at home daily and will complete numerous novels over the course of the semester. They will learn and implement vocabulary skills and active-reading strategies. Writing, research, and technology are integral parts of the course and will be used to enhance students' understanding of literature.

0505903
CREATIVE WRITING (AC)-NCAA-approved
. 5 Unit
Prerequisite: English III or concurrent enrollment in English III
In this course, students experiment with the writing process and the modes of writing in fiction, nonfiction, and poetry. Students will be expected to work cooperatively with their peers and their instructor toward strengthening their writing and their reading skills. Students will read and analyze published works as a model for their own writing. Through frequent writing and formal/informal assessment, students' style will be further developed.

0508503
MYTHOLOGY (AC)-NCAA-approved
. 5 Unit
Prerequisite: English III or concurrent enrollment in English III
This course will build upon the skills taught in English I and English II and reinforce the skills presented in and required for English III and English IV to prepare students for the communication tasks they will encounter in life after high school. Using mythological texts from around the world, students will focus on practicing all communication skills: reading, writing, speaking, and listening. By the end of the course, students will recognize common threads that connect human cultures, apply their deep understanding of mythology to contemporary media and real-world situations, draw interesting connections between a myth/mythology and the culture from which it comes, and understand that a culture's mythology provides a foundation for the culture itself (rituals, behaviors, art, etc.).

This course is designed to introduce students to the art of public speaking and to prepare them for speaking in both competitive speaking opportunities and real-world settings, including professional and personal environments. Students will focus on practicing all communication skills, including reading, writing, speaking, listening, and analyzing information. Competitive speaking events taught in this course will include: prose/poetry and storytelling.

0506403

SPEECHII (AC) (HuS) (BMT)- NCAA-approved<br>. 5 Unit<br>Prerequisite: Speech I

This course is an advanced study of the art of public speaking and will build upon the elements of communication learned in Speech I. Students will study, analyze, and evaluate variety of speeches in order to create and present both memorized and extemporaneous speeches. Competitive speaking events taught in this course will include: original oratory, extemporaneous speaking, and radio.

0505953
DEBATE (AC) (HuS) (BMT)-ncAA-approved
. 5 Unit
Prerequisite: English I
In this course, students discuss contemporary problems and debate current universal issues. Research techniques, organizational skills, and the fundamentals of oral presentation will be key components. Students will do written casework, in-class evaluations, and formal oral presentations of both policy and valuedebates.

BLACK LITERATURE (AC) (HuS) - NCAA-approved (pending Board approval)
Grade 10-12
This course will focus on multi-genre literary works of Black authors and will celebrate the dignity and identity of Black voices. Students will examine the significance of this literary tradition and how it shapes the reader's understanding of society and self. Through the exploration of Black Literature with close readings of selected literary works, students will enhance and increase their development of literary and analytical skills while exploring the cultural identity of themselves and others. This course will include various genres of writing in response to the literary works. In addition, students will engage in research, speaking, listening and presenting in order to develop a deeper understanding of society and the need for change. Throughout this course, students will grow as public speakers and presenters of information.

0506453
JOURNALISM (AC)-NCAA-approved
. 5 Unit
Prerequisite: None
Students will explore all aspects of written journalism in a hands-on, real-world application of news, feature, and opinion writing. Topics covered will include news writing, feature writing, opinion writing, digital storytelling, and media law and ethics. Work produced in this course will be published on multiple student-run media platforms and offers opportunities for wider recognition and visibility. This course prepares students to produce effective and efficient communications for a variety of purposes.

0506483
BROADCAST JOURNALISM (AC)
. 5 Unit
Prerequisite: None
Students will learn to create (write, shoot, edit) and produce broadcast video stories. There will be an emphasis on video storytelling for a variety of different video styles and lengths. Inspiration for the video stories will be drawn from events and people at the school, focusing on recent events and narrative stories. Additional inspiration will be drawn from other high school media, as well as national and regional media. Students will learn to create professional video stories for publication in a variety of formats from traditional broadcast publishing platforms to social media.

## ELA Electives (Practical Arts Credit)

| 0506111 Semester 1 | HONORS NEWSPAPER PRODUCTION (AC) | 1 Unit |
| :--- | :--- | :--- |
| 0506112 Semester 2 | Credit: 1 Unit of Practical Art or Elective Credit <br> Prerequisite: Teacher Recommendation (Journalism, <br>  <br>  <br>  <br>  <br>  <br>  <br> Broadcast Journalism, or Digital Photojournalism highly encouraged) |  |
|  |  |  |

This class will be responsible for the production of the school newspaper and online student media (including the web, video and social media). Students will be trained and work in the following areas: writing, photography, design, business and emerging media. This is a co-curricular course.

| 0506211 Semester 1 | HONORS YEARBOOK PUBLICATION (AC) |
| :--- | :--- |
| 0506212 Semester 2 | Credit: 1 Unit of Practical Art or Elective Credit <br>  <br>  <br>  <br>  <br>  <br>  <br>  <br> Prerequisite: Teacher Recommendation (Journalism, Broadcast Journalism, Photojournalism highly encouraged) <br> Advanced Credit Program possible |

This class will be responsible for the production of the school yearbook and online student media (including the web, video and social media). Students will be trained and work in the following areas: writing, photography, business, design and emerging media. This is a co-curricular course.
DIGITAL PHOTOJOURNALISM (AC)
Credit: $1 / 2$ Unit of Practical Arts Credit or Elective Credit
Prerequisite: English I or concurrent enrollment with teacher recommendation

Students will explore all aspects of visual journalism in a hands-on, real-world application of portrait, sports, and news photography. Topics covered will include visual composition, operation of equipment, computer editing programs, and media law and ethics. Work produced in this course will be published on multiple student-produced media platforms and offer opportunities for wider recognition and visibility. This course prepares students to produce a variety of visual journalism artifacts for various purposes.

## ENGLISH FOR SPEAKERS OF OTHER LANGUAGES (ESOL)

(Program offered at Francis Howell Central and Francis Howell North High Schools)

| 2722851 Semester 1 | ESOL READING I | 1 Unit |
| :--- | :--- | :--- |
| 2722852 Semester 2 | Prerequisite: ESOL Teacher Recommendation |  |

This course will help beginning English Learners increase the essential reading and writing skills needed to complete high school class curricula. Reading strategies, comprehension skills, vocabulary improvement, information processing, and writing are stressed every day. Instruction is individualized or in small groups.

2722901 Semester 1<br>ESOL READING II<br>1 Unit 2722902 Semester 2<br>Prerequisite: ESOL Teacher Recommendation

This course will help English Learners improve the reading and writing skills needed in core content area classes. This course may be taken in conjunction with ESOL supported content area classes that need additional reading skills for content mastery. Instruction is individualized or in small groups.

2722951
ESOL STUDIES
Prerequisite: ESOL Teacher Recommendation (May be repeated) . 5 Unit

This course is designed to help English Learners improve the study and communication skills necessary to complete required courses and prepare for college or employment. Instruction is individualized or in small groups and supports academic subjects that require homework completion. Instruction will include, but is not limited to, grammar practice, academic vocabulary, test taking strategies, class organizational skills, and classroom success strategies (note taking and summarization).

ESOL Supported Classes in English Language Arts, Math,<br>1 Unit Social Studies, Health, and Science<br>Prerequisite: ESOL Teacher Recommendation<br>Course \# same as mainstream class

ESOL support is offered in selected areas of English Language Arts, Math, Social Studies, Science and Ninth Grade Health. The purpose of this model is to assist the English Learners within the selected mainstreamed classes master the curriculum required for graduation.

# FAMILY AND CONSUMER SCIENCES (Practical Arts Credit) 

0908953
PATHWAY TO TEACHING CAREERS (HuS)
. 5 Unit
Prerequisites: Grades 11-12
Child Development I and/or Human Relations recommended Honors Point and Dual Credit available

Teaching is projected to be one of the fastest-growing occupations over the next several years and beyond. This course focuses on the general theory and practice of learning and teaching; the basic principles of educational psychology; the art of teaching; the planning and administration of educational activities; school safety and health issues; and the history of education. Qualifies for a conditional Honors point when students earn a B or better in the course for the semester and complete a variety of portfolio artifacts. Dual credit is available through both University of Central Missouri and University of Missouri St. Louis for students who meet qualifications.

Pathway to Teaching Careers Internship I will provide students the opportunity to accelerate the knowledge and skills learned in Pathway to Teaching Careers coursework. The unpaid internship is an immersion experience that will partner students with cooperating teachers in Francis Howell early childhood, elementary, middle, or high schools. Students will also complete classroom coursework with the supervising teacher. This course is intended to be a two-block course (two-hour course) $\mathbf{2}^{\text {nd }}$ semester. Qualifies for a conditional Honors point when students earn a B or better in the course for the semester, participate in a minimum of 110 field hours, complete a variety of portfolio artifacts and pass the Industry Recognized Credential Assessment. Dual credit is available through both University of Central Missouri and University of Missouri St. Louis.

0908973

PATHWAY TO TEACHING CAREERS INTERNSHIP II* (HuS)<br>Prerequisite: Pathway to Teaching Careers,<br>Pathways to Teaching Career Internship I<br>Prerequisite: Grades 11-12<br>Honors Point and Dual Credit, A+ Hours

1 Unit
*Interested students may re-take the Pathways to Teaching Career Internship a second time. The student must be placed in a different grade/subject than their first internship. Students will complete the same coursework for their new grade level. Student may be exempted from the Industry Recognized Credential Assessment if they passed it during their first internship.

Pathway to Teaching Careers Internship II will provide students the opportunity to accelerate the knowledge and skills learned in Pathway to Teaching Careers coursework. The unpaid internship is an immersion experience that will partner students with cooperating teachers in Francis Howell early childhood, elementary, middle, or high schools. Students will also complete classroom coursework with the supervising teacher. Students will need to complete a course application from the Guidance Department prior to course enrollment. This course is intended to be a twoblock course (two-hour course) $\mathbf{2}^{\text {nd }}$ semester. Qualifies for a conditional Honors point when students earn a B or better in the course for the semester, participate in a minimum of 110 field hours, complete a variety of portfolio artifacts and pass the Industry Recognized Credential Assessment. Dual credit is available through both University of Central Missouri and University of Missouri St. Louis for students who meet qualifications. Students can also earn their A+ hours while completing their internship.

Child Development I will provide students with the valuable knowledge and skills to prepare them for future parenting roles and child-related careers. Throughout the semester students will explore the various aspects of human development beginning with prenatal development and finishing with the second year of life. In addition, students will study the topics of childcare, parenting roles and styles, health and safety concerns and guidance techniques of children from infancy through the second year of life. Students will participate in a parenting simulation using an advanced infant simulator. This project helps students understand the implications of parenting in a modern society. An alternative project is available. Students interested in the human or health service career pathways are encouraged to enroll in this class. This would include, but not limited to, future teachers, early childhood professionals, social workers, and medical professionals.

## 0908753

CHILD DEVELOPMENT II (HuS)<br>Prerequisite: Child Development I

. 5 Unit

Child Development II starts off where Child Development I finishes. Throughout the semester students will explore aspects of human development between ages two and five. Topics will include child development theories, parenting roles, child safety, and childcare options. Students will gain the vital skills for stimulating, teaching, interacting with, and caring for children. Students will be responsible for creating and implementing activities which facilitate learning and development of the pre-school aged child. NOTE: Student with a " $B$ " average in Child Development I and Child Development II may receive college credit at St. Charles Community College through articulation into the Early Childhood Program. Students who are $10^{\text {th }}$ grade or higher are eligible for dual credit through University of Missouri St. Louis.

0908773

> CHILD DEVELOPMENT III (HuS) Prerequisite: Child Development I and II
. 5 Unit

Students who have successfully completed Child Development I and II can continue their exploration of the Early Childhood Education field by taking Child Development III. This spring semester course runs concurrently with Child Development II. Students in CDIII will serve as team leaders for the Pre-K program, directing their peers in lesson planning, instruction, and student interaction. They will also complete a portfolio project on an educational topic of their choice. Students are eligible to receive dual credit through University of Missouri St. Louis.

Note: This course may be offered in a Blending Learning Format at Francis Howell High School. Interested students should sign up for the Blended Learning section.

BL0908773 CHILD DEVELOPMENT III

## 0908403

HUMAN RELATIONS (HuS)

. 5 Unit
Prerequisite: Grades 10-12
The Human Relations course will prepare students for future adult roles as well as provide them with information they can apply to their current stage in life. Topics of discussion and research will include personal development, effective communication skills, the decision-making process, conflict resolution, interpersonal relationships, community and family connections, and careers and human services. Students will engage in respectful dialogue, conduct and evaluate research, complete several independent and group projects throughout the semester. Knowledge and skills acquired in this course can enhance present and future personal relationships, and can lead to potential careers in health and human services.

0908113
FASHION CONSTRUCTION I (AC)
. 5 Unit
Prerequisite: None
Have you ever wanted to make your own clothing or accessories? Fashion Construction I introduces you to the world of fashion through sewing construction. Studies will include a variety of equipment, the sewing machines, fabric \& pattern selection, and construction techniques. By the end of the semester, you will have created multiple items for yourself or for gifts! Students will supply materials for required projects. Approximate cost for the semester is $\$ 30$.

Fashion Construction II provides you with strategies that build on construction skills learned in Fashion Construction I. Students will construct several projects using a variety of fabrics, patterns, advanced techniques, and technology. Students will supply materials for required projects. Approximate cost for the semester is $\$ 30-\$ 50$. Dual enrollment is available through University of Central Missouri at select schools.

Students will work with the teacher to develop an individualized plan of appropriate projects using a variety of specialty patterns, fabrics, and advanced technology. Students will explore the areas of entrepreneurship and career options. Students will supply materials for required projects. Approximate cost for the semester is $\$ 30$. This course may be repeated for further credit. Dual enrollment is available through University of Central Missouri at select schools.

## 0908363

FASHION (AC) (BMT)
. 5 Unit
Prerequisite: Grades 10-12
Are you interested in the world of fashion? Throughout the semester in Fashion, students will learn the dynamics of the fashion industry including: a study of designers and historical clothing, design and apparel production, textiles, careers, and merchandising trends. Students will complete individual projects related to fashion design, merchandising, and marketing. Students will supply materials for required projects. Approximate cost for the semester is $\$ 30$. Dual enrollment is available through University of Central Missouri at select schools.

0908003 FOODS AND NUTRITION I (HuS) (HeS) . 5 Unit
Prerequisite: None
Foods and Nutrition I will evaluate individual eating habits and learn how to safely prepare nutritious foods. The primary focus will be preparation and storage of food items, safety and sanitation, equipment and measuring, and nutrition and food labels. Students will have lab experiences preparing fruits, vegetables, eggs, grains, quick breads, dairy products, casseroles, cookies, and ground meat/poultry.

0908053
FOODS AND NUTRITION II (HuS) (HeS)
. 5 Unit
Prerequisite: Foods and Nutrition I
Students in Foods and Nutrition II will evaluate their own eating habits as well as the eating habits of others. Labs in Foods and Nutrition II will build upon the prior knowledge and skills acquired in Foods and Nutrition I class. These lab experiences will include preparation of yeast breads, sauces, soups, salads, appetizers, cakes and pastries, meat, seafood, poultry, candy, and special diets. Additionally, students will analyze if a career related to foods and nutrition would be a possible career path.

0908803
INTERNATIONAL CUISINE (HuS) (HeS)
Prerequisite: Foods and Nutrition I
. 5 Unit

Learn history and culture the fun way-through preparing the native foods of the world. International Cuisine builds and expands the knowledge and skills learned in Foods and Nutrition I. Students will develop an understanding of foods, traditions, and customs of other cultures and their own culture through projects and preparation of a variety of regional and cultural foods. Students will prepare foods from Latin America, South America, regions of the United States, various countries of Europe and the Mediterranean, Africa, Asia and the Middle East. Increase your culinary skills and try new and exciting foods from around the globe.

Food prepared in this course will be from the perspective of a chef using professional techniques in the industry. The frequency and rigor of the lab experiences will be greatly increased. Culinary Arts is designed for students who wish to explore the areas of hospitality, culinary arts and food service management. Students will have ample opportunity to expand and practice food preparation techniques, knife skills, and acquire an extensive culinary vocabulary. This course is an introduction to all areas related to the hospitality \& food service industry. Instructional areas include nutrition, safety and sanitation in the professional kitchen, purchasing and cost control, sales and service, job seeking skills, and food preparation and presentation. Students completing this course have the opportunity to receive a certificate from the Missouri Restaurant Association that can be used to jumpstart a career in the field of culinary arts.
Students who successfully complete both semesters of Culinary are eligible for Dual Credit through Missouri State University.

## 0908601 Semester 1 0908602 Semester 2

CULINARY ARTS WORK EXPERIENCE (HuS) (HeS) (AC)<br>Prerequisite: Grade 12; concurrent enrollment in Culinary Arts

1-2 Units

Students receive on-the-job training in hospitality, food production or a food service-related area of their choice. Jobs in these areas provide educational opportunities beyond the school environment by working on an approved job site during the afternoon or evening. One unit of credit is earned for working 10-19 hours each week. Two units of credit are earned for 20 or more hours worked each week. The amount of credit may be different each semester. This instructional program is planned, supervised, and evaluated by both the teacher-coordinator and employer. Students who use this opportunity to complete the work experience component of the Culinary Arts program will also receive a certificate qualifying them for college credit at various post-secondary culinary programs across the state of Missouri.

0908503
HOUSING AND INTERIOR DESIGN (AC) (IET) (HuS)

This project-oriented course is designed to teach the basics of interior design, aesthetics of architectural and furniture styles, analysis of housing selection and floor plans, home furnishings and furniture arrangement, and the application of the elements and principles of design. The information learned in this class can be used for personal enhancement of present and future living environments. Housing and Interior Design students will learn to make responsible decisions to select, create, and maintain desirable living environments. Students will also be introduced to career pathways in interior design and related fields such as drafting and architectural design.

## 0202103

INTRODUCTION TO ART (AC)<br>This course satisfies the Fine Arts requirement for graduation

Want to leave your mark in the $21^{\text {st }}$ Century? Want to learn how to express yourself through art? Introduction to Art is a yearlong beginning course for all students that will inspire and empower you as a young artist. In this course, you will explore and experiment with multiple art forms using materials such as clay, paint, digital software and other media. You will take a leading role in your learning as you read visual texts, create artwork, connect to the world around you, respond to works of art, and present your creations. Growth will be measured through active participation, studio work, written reflections, and portfolio production. This course may charge a fee to cover supplies.

0202053 CERAMICS I (AC) $\begin{array}{ll}\text { Prerequisite: Introduction to Art }\end{array}$
Ceramics I is an introductory three-dimensional studio course based entirely in the medium of clay. Students will create art through the study of traditional and contemporary ceramic methods, tools, and techniques. Students will go from a big idea, to exploring processes, to developing a final product. Students will understand how to make connections to the world, respond to works in clay, and present creations to an audience. Students will have a lead role in their learning through creative endeavors, self-expression, self-reflection, and risk taking. Students will develop and use ceramic hand-building methods, decorative surface techniques, and glazing and firing skills, creating original functional and fine art pieces. Students will analyze and critique artworks, discuss aesthetic issues, and understand how ceramic objects have been used in history across many cultures. Growth will be measured through active participation, studio work, and portfolio production. This course may charge a fee to cover supplies.

## 0202103

CERAMICS II (AC)
. 5 Unit
Prerequisite: A passing grade in Introduction to Art and Ceramics I
Note: A grade of C or better in Ceramics I is recommended.
Ceramics II is an upper-level studio course that will build upon and extend skills developed in Ceramics I. Students will create original functional and fine art pieces that will challenge their creativity. Students may develop hand-built, wheel-thrown and decorative surface techniques. Students will expand their knowledge of contemporary issues and techniques, taking the next step to break from traditional ceramic techniques by exploring more personally meaningful themes, ideas, and concepts. Students will analyze and critique artworks, discuss aesthetic issues, and understand how ceramic objects have been used in history across many cultures. Growth will be measured through active participation, studio work, and portfolio production. This course may charge a fee to cover supplies.

## 0202253

> DRAWING I (AC)
. 5 Unit
Prerequisite: A passing grade in Introduction to Art
Drawing I is an introductory studio course that develops technical skills in the use of different drawing media. Students will create original two-dimensional artworks based on drawing from observation, perspective, and personal communication of an idea. Students will analyze and critique artworks, discuss aesthetic issues, and understand how artworks have been used in history across many cultures. Evaluation will be based on active class participation, written work, and studio work with an emphasis on student artwork. This course may charge a fee to coversupplies.

## 0202303

## DRAWING II (AC)

. 5 Unit
Prerequisite: A passing grade in Introduction to Art and Drawing I Note: A grade of C or better in Drawing I is recommended.

Drawing II is an upper-level studio course that will build upon and extend skills developed in Drawing I. Students will experience a variety of media and subject matter in creating two-dimensional artworks. Students will be expected to apply drawing skills to achieve desired effects in chosen thematic and observational works. Students will analyze and critique artworks, discuss aesthetic issues, and understand how artworks have been used in history across many cultures. Evaluation will be based on active class participation, written work, and studio work with an emphasis on student artwork. This course may charge a fee to cover supplies.

Digital Art \& Design will teach you how to communicate ideas and stories through different media including digital photography, video, print and motion graphics. This course is designed to help you develop your own eye for design, and translate that knowledge into a possible career creating these powerful images. All these skills will be put to use in a variety of class projects, where you will learn to apply different theories to real design work. Your instructors will work with you to develop your personal style and create both physical and web-based portfolios that will allow others to see your range of skills as a designer.

Digital Art \& Design students will explore the many uses of digital photography, computer art and animation in professional and artistic pursuits. Students will learn computer illustration techniques, image manipulation and digital camera/electronic device use. New Media Art will be a main focus which includes current digital electronic media such as gifs, web animation and social media art/apps. This course may charge a fee to coversupplies.

0202123
DIGITAL ART \& DESIGN II (AC)
. 5 Unit
Prerequisite: A passing grade in Introduction to Art and Digital Art \& Design I Note: A grade of C or better in Digital Art \& Design I is recommended.
Advanced Credit Program Possible
Digital Art \& Design II students will continue to explore communicating through digital media to create works of art including digital photography, video, print, motion graphics as well as artistic filmmaking which may include 2D and 3D stop-motion, rotoscoping, or music video production. You will participate in select projects with upper level design teams, build digital design portfolios, and present your work in digital media exhibitions. This course may charge a fee to cover supplies.

## 0202353

## PAINTING I (AC)

. 5 Unit
Prerequisite: A passing grade in Introduction to Art
Painting I is an introductory studio course that develops technical skills in the use of different painting media. Students will learn to express themselves through color theory and use a variety of painting techniques to create twodimensional works. Work will focus on observational skills and be inspired by different historical periods. Students will analyze and critique artworks, discuss aesthetic issues, and understand how artworks have been used in history across many cultures. Evaluation will be based on active class participation, written work, and studio work with an emphasis on student artwork. This course may charge a fee to cover supplies.

## 0202403

PAINTING II (AC)
. 5 Unit
Prerequisite: A passing grade in Introduction to Art and Painting I
Note: A grade of C or better in Painting I is recommended.
Painting II is an upper-level studio course that builds upon experiences from Painting I that will enable students to paint compositions with a variety of media. Students will begin to develop their own personal painting style. Students will analyze and critique artworks, discuss aesthetic issues, and understand how artworks have been used in history across many cultures. Evaluation will be based on active class participation, written work, and studio work with an emphasis on student artwork. This course may charge a fee to cover supplies.

0202453
PRINTMAKING I (AC)
. 5 Unit
Prerequisite: A passing grade in Introduction to Art
Printmaking I is an introductory studio course that develops technical skills in the use of different printmaking media and procedures. Students will explore monoprinting, relief, intaglio, and screen-printing methods to produce prints on a variety of surfaces. Students will be expected to construct original and creative compositions utilizing drawing skills and design principles. Students will analyze and critique artworks, discuss aesthetic issues, and understand how artworks have been used in history across many cultures. Evaluation will be based on active class participation, written work, critiques and studio work with an emphasis on student artwork. This course may charge a fee to cover supplies.

Printmaking II is an upper-level studio course that builds upon skills from Printmaking I. Students will use different printmaking processes such as monoprinting, relief, intaglio, lithography and/or screen printing to create art works with various subjects. Students will create original and creative large-scale compositions. They are expected to develop a body of work that is inventive and one that expresses a conceptual use of the printed image. Students will analyze and critique artworks, discuss aesthetic issues, relate prints to current trends in the field of printmaking, and understand how prints have been used in history across many cultures. Evaluation will be based on active class participation, written work, critiques and studio work with an emphasis on student artwork. This course may charge a fee to cover supplies.

## 0202553

SCULPTURE I(AC)
. 5 Unit
Prerequisite: A passing grade in Introduction to Art

Sculpture I is an introductory studio course that develops technical skills in the use of different sculpture media such as plaster, clay, paper, wire, fibers, or found objects. Students will create original, three-dimensional artworks using modeling, carving, and assemblage. Students will explore historical influences on the evolution of sculpture. Students will analyze and critique artwork construction and discuss aesthetic issues. Growth will be measured through active participation, studio work, and portfolio production. This course may charge a fee to cover supplies.

## 0202603

## SCULPTURE II (AC)

. 5 Unit
Prerequisite: A passing grade in Introduction to Art and Sculpture I Note: A grade of C or better in Sculpture I is recommended.

Sculpture II is an upper-level studio course that builds upon skills from Sculpture I while allowing students to experience new sculptural techniques and media. Students will create three-dimensional art forms that express personal styles and/or themes. Students will explore historical influences on the evolution of sculpture. Students will analyze and critique artwork construction and discuss aesthetic issues. Growth will be measured through active participation, studio work, and portfolio production. This course may charge a fee to cover supplies.

## 0202711 Semester 1 0202712 Semester 2

AP ART HISTORY (AC)<br>Prerequisite: Grades 10-12<br>This course satisfies the fine arts requirement for graduation.<br>Advanced Credit Program Possible.<br>Note: GPA 2.0+ recommended. Does not require Introduction to Art

1 Unit

Advanced Placement Art History is designed to give students the opportunity to discover, appreciate, and acquire knowledge of art history through the ages, from prehistory to contemporary times. This course enables highly motivated students to study college level art history by examining major forms of artistic expression from diverse cultures and understanding each of their contributions to the arts as a whole. Students are provided opportunities to critically analyze works of art in a variety of environments including actual and virtual. A variety of art media and styles will be studied as students look at architecture, manuscripts, painting, drawing, printmaking and sculpture, as a reflection of a given civilization and time period. Students will investigate how various art pieces connect to historical events, how artistic movements influence each other, what is aesthetically pleasing to the eye, and their contexts within social, political and religious themes. This class will give students the opportunity to use their prior knowledge of history, geography, politics, religion, languages, literature, and the visual arts. This course will prepare students to take the AP Art History exam. This course satisfies the fine arts requirement for graduation. Evaluation will be based on written work, research, class participation and tests.

0202821 Semester 1 0202822 Semester 2

AP ART \& DESIGN (AC)
1 Unit
Grades 11-12
Passing grade of $C$ or better in Introduction to Art
Passing grade of C or better in Drawing I \& II
Enrollment must be approved by AP Art Teacher
Additional Studio Courses strongly recommended
Note: Student must fulfill requirements to be approved by Art Department

The AP Art \& Design course is designed for the serious art student who is interested in intensive art production for the purpose of compiling an art portfolio in preparation for future art studies or college entrance. The portfolio may be used to present during portfolio reviews for admission and scholarship opportunities or to obtain AP credit.

The AP program in Art \& Design enables highly motivated students to perform at the college level while still in high school. Students will be challenged to refine their artistic skills and develop mastery of composition. Emphasis will be placed on the production of a volume of quality pieces of artwork. AP Art \& Design students will submit completed portfolios at the end of the year with the opportunity to apply for AP credit.

The AP Art \& Design Portfolio exam is a performance-based exam rather than a written exam and will require students to demonstrate quality, breadth, and an in-depth engagement in the process of making art. The AP Art \& Designstudent will record portfolio work through a digital slide portfolio that will be submitted for AP review. Students will also be required to write short reflective statements to explain the thought process behind the artwork.

AP Art \& Design requires a significant commitment of time and effort, both during class time and outside of the school day. Students interested in this course should be highly motivated and be willing to devote considerable time and effort to the study of art and the development of higher-level skills. Students will be placed in AP Art \& Design based on previous studio course experience and performance, personal goals, teacher recommendations, and portfolio review. This course may charge a fee to cover supplies.

## 1211001 Semester 1 1211002 Semester 2 <br> CHORUS (AC) <br> Prerequisite: None

This group vocal performance class is available both for students new to high school choir, and those with prior experience seeking to continue their musical growth. This ensemble is an excellent place to begin and continue your vocal training. Students will learn fundamental vocal techniques, how to read music, and how to rehearse and perform a variety of music styles as a group. Students will work together in a positive and supportive environment that emphasizes the importance of teamwork. The class will have several performances such as school concerts, competitions, and/or festivals. Music selections represent a wide variety of musical styles, genres, and periods. Students will be evaluated on active class participation, written work, assessments, and collaborative performances. Students will work together in a collaborative, positive and supportive environment that emphasizes the importance of teamwork. Vocal grouping will be determined each year by the director according to class enrollment. This course may charge a fee to cover supplies.

## 1211051 Semester 1 TREBLE CHOIR (AC) <br> 1211052 Semester 2 (Honors available Course \# Sem 1: 1211061, Sem 2: 1211062) <br> Prerequisite: Audition or recommendation of a former director <br> Teacher recommendation for honors: Grade 10, 11 or 12

1 Unit

Treble Choir is an elective, intermediate performing choral ensemble. Students are auditioned for membership or may be placed by recommendation of a former director. Members will demonstrate progress in tone production, music reading, and vocal independence. The class will have several performances such as school concerts, competitions, and/or festivals. Music selections represent a wide variety of musical styles, genres, and periods. Music may include pieces which are a cappella and/or in a foreign language. Students will be evaluated on active class participation, written work, assessments, and collaborative performances. Students will work together in a positive and supportive environment that emphasizes the importance of teamwork. Students will need to complete additional requirements for honors credit. This course may charge a fee to cover supplies.

1211101 Semester 1 1211102 Semester 2

CONCERT CHOIR (AC)
(Honors available Course \# Sem 1: 1211111, Sem 2: 1211112)
Prerequisite: Audition or recommendation of a former director
Teacher recommendation for honors: Grade 10, 11 or 12

1 Unit Concert Choir is an accomplished choral group. Students are auditioned for membership or may be placed by recommendation of a director. Concert Choir performs music representing a variety of periods, styles, and genres with some a cappella and/or foreign language selections. Students will further develop their abilities in tone production, independence of voice parts, and appropriate interpretation. Concert Choir participates in concerts, festivals, and/or contests. Students' grades will be based on active class participation, written work, assessments, and performances. Students will work together in a collaborative, positive and supportive environment that emphasizes the importance of teamwork. Vocal grouping will be determined by the director according to class enrollment. Students will need to complete additional requirements for honors credit. This course may charge a fee to cover supplies.

1211171 Semester 1<br>CHAMBER CHOIR (AC)<br>1 Unit<br>1211172 Semester 2<br>(Honors available Course \# Sem 1: 1211181, Sem 2: 1211182)<br>Prerequisite: Enrollment in an additional choir during junior or senior year and teacher recommendation through audition<br>Teacher recommendation for honors: grade 10,11 or 12

Chamber Choir is an advanced choral group. Students are auditioned for membership. Chamber Choir performs music representing a variety of periods, styles, and genres with some a cappella and/or foreign language selections. Students will further develop their abilities in tone production, independence of voice parts, and appropriate interpretation. Chamber Choir participates in concerts, festivals, and/or contests. Students' grades will be based on active class participation, written work, assessments, and performances. Students will work together in a collaborative, positive and supportive environment that emphasizes the importance of teamwork. Vocal grouping will be determined by the director according to class enrollment. Students will need to complete additional requirements for honors credit. This course may charge a fee to cover supplies.

## 1211211 Semester 1 1211212 Semester 2

MUSIC APPRECIATION THROUGH GUITAR (AC)<br>Prerequisite: None

1 Unit

Music Appreciation through Guitar is designed to teach any student the basic principles of music, including playing an instrument, reading music, and listening to music, both modern and historical. Through the medium of guitar, we will discuss the fundamentals of playing an instrument, how to read music notation, develop basic skills for guitar maintenance, and build the essential skills to play guitar both as an individual and within an ensemble. Instruction will be geared towards the individual learner and their experience level on guitar. This course better prepares any student to play a musical instrument, while developing a lifelong patron of the arts.

Music Appreciation through Guitar is a year-long course in the high school Fine Arts Department. This course is open to any student who has an interest in pursuing music and wanting to learn an instrument. This course can lead to other opportunities within the music program, including band classes such as Jazz Ensemble and Advanced Placement Music Theory. This course satisfies the Fine Arts requirements for graduation.

## 1211261 Semester 1 AP MUSIC THEORY (AC) 1 Unit 1211262 Semester 2 Prerequisite: Grade 10-12; music background in fundamentals (treble and bass clef notation, rhythmic notation, etc.) and teacher recommendation

Music Theory is a course that emphasizes the rules and practices of music theory, composition, ear training, sight singing and music analysis. While the main focus is placed on music of the Common Practice Period (1600-1750), music of other stylistic periods will also be studied. Music Theory highlights rhythmic and pitch notation, relation of staff notation to the keyboard, construction and analysis of chords and chord progressions, four-part writing, recognition of musical forms, sight singing, dictation, and aural training. Students will be evaluated on homework, tests, aural and reading skills.

Music Theory requires effort on the part of the student both in and out of class. Students should be self-motivated and willing to dedicate the focus necessary for personal advancement. This course will prepare students to take the AP Music Theory exam.

Concert Band is designed to teach teamwork, self-discipline, and develop higher level thinking skills necessary to express one's self through music. Instruction will build on the student's fundamental playing skills to develop intermediate to advanced skills. This course better prepares students for participation in Symphonic Band/Wind Ensemble.

Students will perform in a minimum of two concerts a year. Students have the opportunity to participate in extracurricular performing ensembles such as district honor band, district solo and ensemble festival, pep band, pit orchestra, etc. This course is an extension of the concepts developed in middle school band. Previous participation in middle school band is strongly encouraged.

| 1211331 Semester 1 | SYMPHONIC BAND (AC) <br> (Honors available Course \# Sem 1: 1211341, Sem 2: 1211342) 1 Unit |
| :--- | :--- |
| Prerequisite: Concert Band and/or selection by audition; for honors: grade 10-12; |  |
| conference with Music Director |  |

Symphonic Band is designed to teach teamwork, self-discipline, and develop higher level thinking skills necessary to express one's self through music. Instruction will build on the student's fundamental playing skills to further develop and progress towards advanced musicianship. This course better prepares students for participation in a wide variety of musical genres.

Students will perform in a minimum of two concerts a year. Students have the opportunity to participate in extracurricular performing ensembles such as district honor band, district solo and ensemble festival, pep band, pit orchestra, etc. This course is an extension of the concepts developed in Concert Band. Previous participation in Concert Band is strongly recommended.

## 1211371 Semester $1 \quad 1$ Unit 1211372 Semester 2 (Honors available Course \# Sem 1: 1211381, Sem 2: 1211382) <br> Prerequisite: Concert Band/Symphonic Band and/or selection by audition; for Honors: grades 10-12; conference with Music Director

Wind Ensemble is designed to teach teamwork, self-discipline, and develop higher level thinking skills necessary to express one's self through music. Instruction will build upon the student's advanced playing skills to further develop and progress towards consummate musicianship. This course is designed to prepare students for further collegiate study and careers in music and a wide variety of performance opportunities. Students will perform in a minimum of two concerts a year. Students have the opportunity to participate in extracurricular performing ensembles such as district honor band, district solo and ensemble festival, pep band, pit orchestra, etc.

## 1211401 Semester 1 JAZZ ENSEMBLE (AC) <br> 1 Unit 1211402 Semester 2 <br> (Honors available Course \# Sem 1: 1211411, Sem 2: 1211412) <br> Prerequisite: Concert Band and/or by audition; for honors: grade 10-12; conference with Music Director

This auditioned ensemble performs standard and contemporary jazz literature and exposes students to improvisation. Students enrolled are expected to participate in concert band with the exception of instruments such as guitar and keyboard. Class size will be limited to balance the instrumentation required for jazz arrangements. Jazz Ensemble will present at least two public performances a year. The Jazz Ensemble may also enter competitions, play for school and/or district activities, and perform at community functions including the all Howell Jazz Night in February. Students also have the opportunity to participate in extracurricular performing ensembles such as district honor band, district solo and ensemble festival, pep band, pit orchestra, etc. Students will need to complete additional requirements for honors credit.

Standard Instrumentation includes; 2 alto saxophones, 2 tenor saxophones, 1 baritone saxophone, 4-5 trumpets, 4 trombones, guitar, bass, drums and piano, and occasionally a vibe player.


#### Abstract

0505623 ACTOR'S STUDIO: IMPROVISATION AND SKETCH COMEDY (AC) Prerequisite: None This is a great class for students wanting to get involved in or learn more about drama and acting. Students will study the fundamentals of improvisation through exercises that help to develop strong ensemble and character work as well as a respect for other performers and their creativity. Students will be introduced to acting through physical and vocal exercises. Students will explore character development through improvisation, monologues and duet scenes. Students will be able to create characters, relationships scenes and performance pieces based on the truth of the moment by following the CORE model - Character, Objective, Relationship, and Environment. The course emphasis is on activities that require the students to actively apply good acting techniques. This course is designed to develop actors' selfawareness and self-confidence as they develop their performances. All improvisations, monologues and scenes are presented in class.


## 0505663

ACTOR'S STUDIO II (AC)
. 5 Unit
Prerequisite: Actor's Studio: Improvisation and Sketch Comedy
Students will further develop their knowledge of basic dramatic scene structure and characterization by exploring improvisations, monologues, duet scenes, accents and dialects, and ensemble performances. Some of the major units include advanced scene study, advanced character study and script analysis, student written scenes, and directing. There will be reflection of acting for the theatre and for film. Students will be introduced to different styles of theatre (absurd and experimental) and how they impact theatre currently. Students will focus on specific acting techniques and individual growth through self-reflection and goal setting. They will explore different careers within the acting community. All improvisations, monologues and scenes are presented in class.

## 0505813

TECHNICAL THEATRE I (AC)<br>Prerequisite: None

. 5 Unit

This is an excellent course for students to earn their fine art credit in a hands-on and fun environment. Students will study the skills associated with set construction, scene shop maintenance, and painting through hands on activities in class. The basics of technical rigging, stage lighting and sound are also introduced. Students will be required to participate in safety training for all areas of technical theatre. Students will also learn the basics of make-up application and costume development. This is a hands-on course and students will participate in practical applications of the methods used in all of these technical areas.

0505713
TECHNICAL THEATRE II (AC)
. 5 Unit
Prerequisite: Technical Theatre I
Students will study the skills associated with design in technical theatre. Students will learn set design, lighting design, audio design, and costume / make-up design and implement their designs through building of mini-models and hands on application techniques. Students will study several plays as context for their designs and will create designs in all of these technical areas for at least one play. Students will also produce a technical theatre portfolio as part of this course. This is an excellent course for students who want more hands-on learning activities or advanced designing experience. This course may charge a fee to cover supplies.

This class concentrates upon the drama student's interest in production styles, comparing live theatre to cinema. Students will study Broadway performers and screen legends, paying particular attention to the craft of each style. Students will review and analyze various film genres and styles in comparison to performance on stage.

Prerequisite: Actor's Studio I and II or Technical Theatre I and II;
teacher approval
This course is designed to be an advanced independent study of theatrical concepts. Each student will declare an individual focus area and learning goals within that focus area. Based on their goals, and with guidance from the teacher, students will design their course of study for their focus area. Focus areas include: Playwriting, Stage Management, Directing, Theatre History, Advanced Acting, and Production Design. Students will research advanced concepts within their focus area. Students will present a portfolio for assessment. This course may charge a fee to cover supplies.

## Industrial Technology (Practical Arts Credit)

1009001 Semester 1<br>1009002 Semester 2<br>COMPUTER AIDED DRAFTING I (CAD) (IET) (AC)<br>1 Unit

CAD I is a beginning course which provides students with an opportunity to develop skills in creating technical drawings that are commonly used in engineering and other technical fields. Students begin with the basics of equipment and material usage and proceed through fundamental drawing techniques and procedures. Students will primarily utilize current CAD software in creation of drawings but will also learn manual drafting techniques as well. This course is especially beneficial to students interested in enrolling in the Project Lead the Way Engineering courses, or careers in designing, engineering, drafting, commercial art, graphic arts, production, and construction careers. Qualifies for articulated Associate of Applied Science (A.A.S.) credit at St. Charles Community College (not A.A. transfer credit).

## 1009051 Semester 1 1009052 Semester 2 <br> COMPUTER AIDED DRAFTING II (CAD) (IET) (AC) <br> 1 Unit <br> Prerequisite: Successful completion of CAD I or Introduction to Engineering <br> Design with a grade of " C " or better recommended

CAD II combines a continuation of the fundamental concepts developed in CAD I with additional concentrated areas of engineering drawing, reverse engineering, and 3D design projects. Students will utilize the same CAD software used in CAD I along with 3D virtual reality CAD software throughout this course. Provisions are made for individual specialization in selected areas as time permits. This course is especially beneficial to those students interested in engineering, designing, drafting, and computer drawing.

## 1009151 Semester 1 <br> WOODWORKING I (IET) (AC) <br> 1 Unit 1009152 Semester 2 <br> Prerequisite: None

Woodworking I will provide students with the opportunity to use hand tools, power tools and machines to create various wood working projects. Students will learn how to safely operate machines such as table saws, routers, planers, drill presses and radial arm saws. During the process of building projects students will learn about project planning, properties of wood, wood joints, fasteners, and wood finishes. In this course, students will be able to apply mathematical and problem-solving skills, while working hands-on in a non-traditional classroom setting.
Students interested in building trades, wood products industries, and furniture construction careers or becoming a do-it-yourself homeowner will enjoy the high school wood working courses. Woodworking I is an introductory course, no prior knowledge of woodworking is necessary. This course fulfills one credit in the practical arts category.

Students must provide or purchase materials for their independent projects. Cost ranges from $\$ 30-\$ 85$ for the year, depending on choice of project and type of wood.

## 1009201 Semester 1 <br> 1009202 Semester 2

WOODWORKING II (IET) (AC)
1 Unit
Prerequisite: Successful completion of Woodworking I with a grade of " C " or better required

Woodworking II is an advanced wood working course designed to provide the student with a unique opportunity to further their wood working skills learned in Woodworking I. Students will continue to apply mathematical and problemsolving skills to create more complex and challenging projects, furniture design, and furniture construction as they build an individualized project. While building projects, students will further their development of skills and knowledge in machine operations, wood fastening, assembly, and finishing procedures. This course is beneficial to students interested in furthering their wood working skills, furniture and cabinet making, design, engineering, construction, and production careers.

Students must provide or purchase materials for their independent projects. Cost ranges from $\$ 30-\$ 85$ for the year, depending on choice of project and type of wood.

## 1080011 Semester 1 <br> 1080012 Semester 2

CARPENTERS UNION WORK-BASED LEARNING (IET) (AC)<br>Prerequisite: OSHA 10 Certification (District will support students in this process), Woodworking II, Algebra I, Geometry (Recommended) Grade 12

This non-credit bearing course will provide students with the opportunity to expand upon and apply their learning from Woods I and Woods II courses. Through a work-based learning model on a Mid-America Carpenters Union signatory contractor jobsite, students will master the proper use of power tools, wall framing, subfloor framing, roof and rafting, exterior siding and finishing, as well as interior trim finishes. Students will work a minimum of 4 hours per day (an average of 20 hours per week), and will be paid a minimum of $\$ 16 /$ hour. This course is a great opportunity for students interested in exploring a career path in carpentry, and if so desired, a successful transition into the Mid-America Carpenters Regional Apprenticeship and Training Program. Students may choose to take this course for either 1 or 2 semesters. Participating students must demonstrate good attendance and citizenship, as well as provide their own transportation. If transportation is a barrier, interested/eligible students should still enroll in this course and contact their school counselor. Additionally, given the nature of this course, participants will be considered parttime students. Part-time student status may impact high school athletics eligibility. Therefore, students must consult with their school counselor and activities director to discuss how participation in this course impacts MSHSAA eligibility.

## 1080111 Semester 1 1080112 Semester 2

PLUMBERS \& PIPEFITTERS WORK-BASED LEARNING (IET) (AC)<br>Prerequisite: OSHA 10 Certification (District will support students in this process), Grade of "C" or better in Geometry, Grade 12

This non-credit bearing course will provide students with the opportunity to expand upon and apply their learning from their industrial technology courses. Through a work-based learning model at the Plumbers \& Pipefitters Apprenticeship Training Center ( 4 days/week) and on a Plumbers \& Pipefitters Union signatory contractor jobsite ( 1 day/week), students will master basic plumbing, pipefitting and employability skills, as well as engage in project development surrounding the plumbing \& pipefitting career pathway. Students will attend this program 3 hours per day (an average of 15 hours per week), and will be paid an hourly rate for the on-site job training that they complete (an average of 1 day per week). This course is a great opportunity for students interested in exploring a career path in plumbing, pipefitting and the construction trades in general, and if so desired, a successful transition into the Local 562 Plumbers \& Pipefitters Apprenticeship Program, the St. Charles County Community College_Plumbing or Welding Programs, and/or a variety of programs at State Tech or Ranken. This is a full year course. Participating students must demonstrate good attendance and citizenship, as well as provide their own transportation. If transportation is a barrier, interested/eligible students should still enroll in this course and contact their school counselor. Additionally, given the nature of this course, participants will be considered part-time students. Part-time student status may impact high school athletics eligibility. Therefore, students must consult with their school counselor and activities director to discuss how participation in this course impacts MSHSAA eligibility.

## Mathematics

## High School Mathematics Course Map


*These courses are considered ACT Prep Courses

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Note: The gray pathway is the general sequence most students take. Three years of math credits are required for graduation, which includes high school credit earned while in middle school. It is strongly recommended that students planning to attend college, take 4 years of math.

Algebra I is the first course in a four-year sequence of college preparatory mathematics. This course aims to deepen and extend student understanding built in previous courses by focusing on developing fluency with solving linear equations, quadratic, and exponential functions graphically, numerically, symbolically, and as sequences, and by using regression techniques to analyze the fit of models to distributions of data. Algebra I students will use problem-solving strategies, questioning, investigating, analyzing critically, gathering and constructing evidence, and communicating rigorous arguments justifying their thinking.

Under teacher guidance, students learn in collaboration with others while sharing information, expertise, and ideas. This course is well balanced among procedural fluency (algorithms and basic skills), deep conceptual understanding, strategic competence (problem solving), and adaptive reasoning (extension and application).

## 1110301 Semester 1 1110302 Semester 2

GEOMETRY - NCAA-approved
Prerequisite: Algebra I or equivalent ACT Prep Course

1 Unit

Geometry is the second course in a four-year sequence of college preparatory mathematics courses that starts with Algebra I and continues through Pre-Calculus. It aims to formalize and extend the geometry that students have learned in previous courses. It does this by focusing on establishing triangle congruence criteria using rigid motions and formal constructions and building a formal understanding of similarity based on dilations and proportional reasoning. It also helps students develop the concepts of formal proof, explore the properties of two- and three-dimensional objects, work within the rectangular coordinate system to verify geometric relationships and prove basic theorems about circles. Students also use the language of set theory to compute and interpret probabilities for compound events. Geometry students will use problem-solving strategies, questioning, investigating, analyzing critically, gathering and constructing evidence, and communicating rigorous arguments justifying their thinking.

## 1110351 Semester 1

 1110352 Semester 2
## HONORS GEOMETRY ${ }_{\text {- NCAA-approved }}$

1 Unit
Prerequisite: Algebra I and teacher recommendation ACT Prep Course

Geometry is the second course in a four-year sequence of college preparatory mathematics courses that starts with Algebra I and continues through Pre-Calculus. It aims to formalize and extend the geometry that students have learned in previous courses. It does this by focusing on establishing triangle congruence criteria using rigid motions and formal constructions and building a formal understanding of similarity based on dilations and proportional reasoning. It also helps students develop the concepts of formal proof, explore the properties of two- and three-dimensional objects, work within the rectangular coordinate system to verify geometric relationships and prove basic theorems about circles. Students also use the language of set theory to compute and interpret probabilities for compound events. Geometry students will use problem-solving strategies, questioning, investigating, analyzing critically, gathering and constructing evidence, and communicating rigorous arguments justifying their thinking. Students in the Honors mathematics pathway will be prepared for future work in advanced placement mathematic courses.

## 1110651 Semester 1 <br> 1110652 Semester 2 <br> INTERMEDIATE ALGEBRA <br> Note: this is NOT an NCAA approved math class <br> Prerequisite: Teacher recommendation

This course is designed to reinforce basic algebraic concepts and enhance the students' understanding of mathematical applications. An introduction of Algebra 2 concepts will ready the student for Algebra 2 or for a post- secondary Intermediate Algebra course.

Algebra 2 is designed to improve students' ability to think analytically using Algebraic reasoning. Students will develop problem solving, logical reasoning, and technological skills. Topics include but are not limited to modeling and solving quadratics, exponential, logarithmic, and trigonometric equations. Investigation of real-world applications will be incorporated throughout the course. This class is essential for students planning to attend college, and should better prepare students for the ACT. Students must have successfully completed Algebra 1 and Geometry before taking this course.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central High School. Interested students should sign up for the Blended Learning section.

# BL1110401 Semester 1 ALGEBRA II <br> BL1110402 Semester 2 ALGEBRA II 

## 1110451 Semester 1 <br> HONORS ALGEBRAII - NCAA-approved <br> 1 Unit <br> 1110452 Semester 2 Prerequisite: Geometry or Honors Geometry \& teacher recommendation ACT Prep Course

Algebra 2 Honors is designed to apply and extend students' understandings of functions. Students are expected to master the topics of Algebra 2 as listed under the Algebra 2 course description with more emphasis on the relationships between quadratic, polynomial, and rational functions, statistics, exponentials, logarithms, as well astrigonometry.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central High School. Interested students should sign up for the Blended Learning section.

BL1110451 Semester 1 HONORS ALGEBRA II
BL1110452 Semester 2 HONORS ALGEBRA II

## 1110431 Semester 1 <br> 1110432 Semester 2

ALGEBRAIII - nCAA-approved
1 Unit
Prerequisite: Algebra II or Algebra II Honors
ACT Prep Course
This course is designed to review and extend skills and concepts from Algebra II. This course is designed to meet the College Algebra student learning outcomes. Students will review and extend concepts learned in Algebra II while diving deeper into trigonometric functions, analytic geometry and matrices. Advanced credit when available.

Note: This course may be offered in a Blended Learning Format at Francis Howell High, Francis Howell North and
Francis Howell Central High School. Interested students should sign up for the Blended Learning section.

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\begin{array}{ll}
\text { BL1110431 Semester } 1 & \text { ALGEBRA III } \\
\text { BL1110432 Semester } 2 & \text { ALGEBRA III }
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## 1110513

MATH ANALYSIS-ncaA-approved
. 5 Unit
Prerequisite: Algebra II or Algebra II Honors
ACT Prep Course
This course will develop the student's understanding of various mathematical concepts, improve students' problemsolving skills, and enhance their ability to reason logically. Topics include linear, quadratic, and rational equations and inequalities, the algebra of functions (including polynomial, rational, exponential, and logarithmic functions), the graphs of some of these functions, and systems of equations. Advanced credit when available.

This course is an introduction to elementary statistics including a wide variety of applications. It is appropriate for many disciplines such as: medicine, psychology, business, computer science, education, agriculture, and engineering. This course, paired with Math Analysis, will give students a good foundation for a College Algebra course.

## 1110561 Semester 1 <br> AP STATISTICS (IET) (BMT) (HeS)-ncaA-approved <br> 1 Unit 1110562 Semester 1 Prerequisite: Algebra II or concurrent with Honors Algebra II

Students will study the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The four broad conceptual themes are: exploring data, planning study, anticipating patterns, and statistical inference. This is an Advanced Placement course that prepares the student to take the AP Statistics exam. Advanced credit when available.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central, Francis Howell North, and Francis Howell High School. Interested students should sign up for the Blended Learning section.

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\begin{array}{ll}
\text { BL1110561 Semester } 1 & \text { AP STATISTICS } \\
\text { BL1110562 Semester } 2 & \text { AP STATISTICS }
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## 1110591 Semester 1

HONORS PRE-CALCULUS- ncaA-approved
1 Unit
1110592 Semester 2
Prerequisite: Algebra II or Honors Algebra II ACT Prep Course

Pre-Calculus is a year-long course with honors credit. This course combines the trigonometric, geometric, and algebraic techniques needed to prepare students for the study of calculus, and strengthens students' conceptual understanding of problems and mathematical reasoning in solving problems. Facility with these topics is especially important for students intending to study calculus, physics, and other sciences, and/or engineering in college. If students do not plan on taking calculus, then they should not take this course. Instructional time will focus on four critical areas: (1) expand understanding of various function types and their graphs; (2) simplify and solve algebraic and trigonometric expressions, equations, and inequalities; (3) use and be able to identify characteristics of conics and their graphs; and (4) find limits of functions. Advanced credit when available.

Note: This course may be offered in a Blending Learning Format at Francis Howell High, Francis Howell North and Francis Howell Central High School. Interested students should sign up for the Blended Learning section.

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\begin{array}{ll}
\text { BL1110591 Semester } 1 & \text { HONORS PRE-CALCULUS } \\
\text { BL1110592 Semester } 2 & \text { HONORS PRE-CALCULUS }
\end{array}
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## 1110601 Semester 1 <br> AP CALCULUS AB (IET) (BMT) (HeS)-ncaA-approved <br> 1 Unit 1110602 Semester 2

This course is a college-level course with many applications in engineering, business and the sciences. $\mathrm{Tl}-84$ or higher graphing calculator is required. Topics include: limits, derivatives and integration of a wide variety of functions, and applications of differentiation and integration. This is an Advanced Placement course that prepares the student to take the AP Calculus AB exam. Advanced credit, when available. Most universities consider this essentially equivalent to their one semester Calculus 1 course, though spread throughout two high school semesters.

Note: This course may be offered in a Blending Learning Format at Francis Howell North. Interested students should sign up for the Blended Learning section.
$\begin{array}{ll}\text { BL1110601 Semester } 1 & \text { AP CALCULUS AB } \\ \text { BL1110602 Semester } 2 & \text { AP CALCULUS AB }\end{array}$

This course is an extension of AP Calculus AB and addresses the same topics at an accelerated (NEARLY COLLEGEPACED) rate along with additional topics such as indeterminate forms, advanced techniques of integration, and a detailed study of sequences and series. TI-84 or higher graphing calculator is required. This is an Advanced Placement course that prepares the student to take the AP Calculus BC exam. Advanced credit, when available. Most universities consider this essentially equivalent to Calculus 1 and Calculus 2

Note: This course may be offered in a Blending Learning Format at Francis Howell Central and
Francis Howell North. Interested students should sign up for the Blended Learning section.

| BL1110611 Semester 1 | AP CALCULUS BC |
| :--- | :--- |
| BL1110612 Semester 2 | AP CALCULUS BC |

## 1110663 Semester 1

DISCRETE MATHEMATICS
1 Unit
Prerequisite: Algebra II or Honors Algebra II
Discrete Mathematics explores non-traditional concepts in mathematics beyond Algebra and Geometry. This course will require students to think critically and apply basic mathematics to draw conclusions and solve problems within real world contexts. Among possible topics to be studied are game theory, election theory, cryptography, circuits, paths and more.

This course will provide the opportunity to develop and maintain fitness for a lifetime of wellness. Fitness concepts and components will be emphasized as the student participates in a wide variety of physical activities (fitness assessment and evaluation, individual sports, team sports, and other activities). This is a required class for graduation, and students may not enroll in elective P.E. classes without successful completion.
0807803 HEALTH AND FAMILY EDUCATON . 5 Unit

Prerequisite: Required for Grade 9
This course is designed to engage students in activities that foster the development of each individual's physical, mental, and emotional well-being leading to the adoption of effective health behaviors. A student-centered approach used in this course provides students the opportunity for accepting personal responsibility for a healthy, active lifestyle throughout their lifetime. Students will have the opportunity to earn CPR certification while participating in this course. This course fulfills the 0.5 Health requirement for graduation. NOTE: This course contains a unit on human sexuality. Missouri State statute (07.015) gives parents the right to remove their student from this portion of the course. Parents should contact the student's teacher if this option is chosen.

## FITNESS FOR LIFE

. 5 Unit
(Meets second $1 / 2$ credit for physical education requirement for graduation)
Prerequisite: Introduction to Fitness (Previously Personal Lifetime Fitness) Grade 10-12

Fit for Life is designed to provide students with the knowledge and skills that are essential for creating a healthy lifestyle. In this class, students will participate in various low-impact resistance exercises designed to tone, stretch, strengthen, and sculpt muscles to improve body composition and fitness. Areas may include but are not limited to fitness testing, goal setting, circuit training, weight training, walking, jogging, yoga, interval training, stretching, various low-impact competitions, nutrition analysis and planning, and current event research. This class may be repeated for further credit.

## 0807161 Semester 1 <br> 0807162 Semester 2

TEAM SPORTS
. 5 Unit
(Meets second $1 / 2$ credit for physical education requirement for graduation)
Prerequisite: Introduction to Fitness (Previously Personal Lifetime Fitness) Grade 10-12

This course will include a variety of team sport activities that may include team sports such as football, softball, soccer, and basketball. Instruction is aimed at developing fitness and sports skills, as well as an understanding of the rules of traditional and non-traditional team sports games. Injury prevention and sport-related careers will also be included in the instruction. Students will also examine coaching and team strategies, and officiating mechanics for each sport. Students will participate in a variety of sports and games, teach classmates rules and skills, and have the opportunity to officiate various sports and games. This course meets the second $1 / 2$ physical education credit requirement for graduation. This class may be repeated for further credit.

Students will participate in a variety of lifetime activities which may include tennis, volleyball, badminton, softball, Frisbee activities, golf, pickleball, bowling, table tennis, recreational and outdoor recreational activities. Students will also learn about the health benefits gained from participating in these activities. Regular class activities include participating in lifetime activities and taking written assessments over the rules and terminology related to the activities. This course meets the second $1 / 2$ physical education credit requirement for graduation. This class may be repeated for further credit.

0807233

## INTRODUCTION TO WEIGHT TRAINING

. 5 Unit
(Meets second $1 / 2$ credit for physical education requirement for graduation) Prerequisite: Introduction to Fitness (Previously Personal Lifetime Fitness) Grade 10-12

This course will provide an introduction to weight training with an emphasis on student participation. The student will be presented with the proper technique for a variety of weight training movements with an emphasis on learning proper movement rather than strength development. Grades will be determined through participation, written tests, and the completion of a workout journal/notebook.

0807241 Semester 1
ADV ANCED WEIGHT TRAINING
. 5 Unit
0807242 Semester 2
Prerequisite: Introduction to Weight Training with a grade of "C" or better, or Department Chairperson approval Grade 10-12

This course has three main objectives: development of an understanding of weight training physiology, development of the skills necessary to maximize performance of strength training techniques, and to continue progress toward an individual's strength and fitness goals. Students will learn to design and implement their own individual workout plan and track their progress by maintaining a workout journal or tracker. Grades will be determined through participation in class, written tests, and completion of the workout journal or tracker. This course meets the second $1 / 2$ physical education credit requirement for graduation. This class may be repeated for further credit.

## DRIVER'S EDUCATION/FIRST AID SAFETY

. 5 Unit
This course cannot be used for a required physical education credit, elective credit only
Prerequisite: Must turn 15 prior to end of semester enrolled
This class provides familiarization with state driving laws, rules, and regulations by using the Missouri Driver's Guide. Students will learn basic defensive driver concepts, the responsibilities of being a vehicle owner/ operator (including maintenance and insurance information), and safe versus unsafe driving conditions as well as the effects of alcohol/drugs on driving. Knowledge and practice of basic first aid procedures, including CPR, will be addressed through this course. Students have the option of participating for a fee in an instructional driving experience.

0807463

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OUTDOOR EDUCATION: HUNTING \& TRAPPING ( Nr A )
This course cannot be used for a required physical education credit, elective credit only
Prerequisite: None
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. 5 Unit

This course will provide basic information on hunter ethics and tradition, hunting seasons, regulations, strategies, hunter safety course, proper gun handling, firearms and safety, outdoor emergencies and survival skills, and an awareness of Missouri's outdoors. Students will be participating in some outdoor activities.

Note: This course may be offered in a Blending Learning Format at Francis Howell High School. Interested students should sign up for the Blended Learning section.

## BL0807463 OUTDOOR EDUCATION: HUNTING AND TRAPPING

This course will provide basic information about different types of fishing, fishing equipment, skills of casting, fish identification, camping and hiking, regulations and responsibilities of the fisherman, map and compass, archery, boating safety, water sports, outdoor emergencies and survival skills, and an awareness of Missouri's outdoors. Students will be participating in some outdoor activities.

Note: This course may be offered in a Blending Learning Format at Francis Howell High School. Interested students should sign up for the Blended Learning section.
BL0807563 OUTDOOR EDUCATION: FISHING \& RECREATION

## 0807701 Semester 1 SPORTS ENHANCEMENT <br> . 5 Unit <br> Prerequisite: Introduction to Fitness (Previously Personal Lifetime Fitness) <br> Grade 10-12

This course is designed to increase athletic performance on the playing field by improving linear speed, acceleration and deceleration, quickness, multi-directional speed and agility, strength, explosive power, and flexibility, along with mental and leadership skills and proper sports nutrition-all essential components of peak athletic performance. This course will also look at the NCAA rules, recruiting guidelines, and college selection based on the needs of the studentathlete. Careers in the fitness area will also be considered. This class may be repeated for further credit.

0807853
FOUNDATIONS OF WELLNESS (HuS)
. 5 Unit
This course cannot be used for a required physical education credit, elective credit only Prerequisite: Introduction to Fitness (Previously Personal Lifetime Fitness) Grade 10-12

Foundations of Wellness class focuses on specific health issues and/or emerging trends in health and wellness, and is offered as an elective for juniors and seniors. It will explore current health concerns and trends as related to the teenage student. Students will gain awareness that health is not just the absence of disease but the positive state of physical, mental, and social well-being that promotes wellness. Topics will include: importance of human connection through healthy relationships, stress management, emotional health, adolescent mental health, situational awareness/self-defense, and other current issues that affect every day teen living. Students will be challenged to reflect and address personal obstacles blocking them from reaching their potential of a healthy lifestyle.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central, Francis Howell North, and Francis Howell High School. Interested students should sign up for the Blended Learning section.

## BL0807853 <br> FOUNDATIONS OF WELLNESS

This course cannot be used for a required physical education credit, elective credit only
Prerequisite: Health
Grade 10-12
This course is designed to give additional attention to the topics covered in Foundations of Wellness, with an emphasis on the effects of stress management, decision making, effect of nutrition on both physical and mental wellness, and development of healthy habits. This course has an emphasis on personal reflection and application of the life skills acquired throughout the semester. This course is strongly recommended for students that have taken Foundations of Wellness and for students that desire to grow in self-awareness of their own health.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central and Francis Howell North. Interested students should sign up for the Blended Learning section.

BL0807863
PRACTICES OF WELLNESS

# Project Lead The Way (PLTW) - Pre-Engineering, Biomedical Sciences, and Computer Science Programs 

## 1009501 Semester 1 <br> 1009502 Semester 2

PLTW INTRODUCTION TO ENGINEERING (IET)<br>Prerequisite: Successful completion of pre-algebra/algebra or enrolled in algebra or higher course, or teacher recommendation Honors Point<br>Grades 9-12<br>Note: Successful completion of this course earns a practical arts credit

This is a foundation course in the pre-engineering Project Lead the Way (PLTW) curriculum sequence that offers a dynamic high school program providing students with real-world learning and hands-on experience. Students interested in engineering, biomechanics, aeronautics, and other applied math and science arenas will discover PLTW is an exciting portal into these industries. The major focus of the course is to expose students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards and technical documentation. Students use 3D solid modeling software to help them design solutions to solve proposed problems and learn how to document their work and communicate solutions to peers and members of the professional community. Options for college credit are available.

## 1009561 Semester 1 1009562 Semester 2

PLTW CIVIL ENGINEERING AND ARCHITECTURE (IET)<br>Prerequisite: None<br>Honors Point eligible<br>Grades 10-12<br>Note: Successful completion of this course earns a practical arts credit

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 3-D architectural design software. The course can be included as part of a PLTW sequence, but students can also take it as a stand-along course.

1009551 Semester 1<br>1009552 Semester 2<br>PLTW PRINCIPLES OF ENGINEERING (IET)<br>1 Unit<br>Prerequisite: Successful completion of Introduction to Engineering<br>Design OR instructor approval and/or concurrent enrollment<br>in a course beyond Algebra 2 Note: A grade of "C" or better in Introduction to Engineering Design recommended or teacher recommendation<br>Honors Point<br>Grades 10-12<br>Note: Successful completion of this course earns a practical arts credit

This is a foundation course in the pre-engineering Project Lead the Way (PLTW) curriculum sequence that offers a dynamic high school program providing students with real-world learning and hands-on experience. Students interested in engineering, biomechanics, aeronautics, and other applied math and science arenas will discover PLTW is an exciting portal into these industries. This survey course of engineering exposes students to major concepts they will encounter in a postsecondary engineering course of study. Students employ engineering and scientific concepts in the solution of engineering design problems. They develop problem solving skills and apply their knowledge of research and design to create solutions to various challenges, documenting their work and communicating solutions to peers and members of the professional community. Options for college credit are available.

PLTW DIGITAL ELECTRONICS (IET)
1 Unit
Prerequisite: Successful completion of Introduction to Engineering
Design and Principles of Engineering
Note: A grade of " C " or better in prerequisites recommended or teacher recommendation
Honors Point
Grades 11-12
Note: Successful completion of this course earns a practical arts credit


#### Abstract

This is a specialized course in the pre-engineering PLTW curriculum sequence that offers a dynamic high school program providing students with real-world learning and hands-on experience. Students interested in engineering, biomechanics, aeronautics, and other applied math and science arenas will discover PLTW is an exciting portal into these industries. Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras and high-definition televisions. The major focus of the digital electronics course is to expose students to the process of combinational and sequential logic design, teamwork, communication methods, engineering standards and technical documentation. This course is designed for $10^{\text {th }}, 11^{\text {th }}$ and $12^{\text {th }}$ grade students.


## 1009751 Semester 1 <br> 1009752 Semester 2

PLTW AEROSPACE ENGINEERING (IET)
1 Unit

Prerequisite: Successful completion of Introduction to Engineering<br>Design and Principles of Engineering<br>Note: A grade of "C" or better in prerequisites recommended or<br>teacher recommendation<br>Honors Point<br>Grades 11-12<br>Note: Successful completion of this course earns a practical arts credit

Students explore the physics of flight and bring what they are learning to life through hands-on projects like designing a glider and creating a program for an autonomous space rover. This course is designed to be an option for the thirdlevel course taken after Introduction to Engineering Design and Principles of Engineering.

## 1009651 Semester 1 <br> 1009652 Semester 2

PLTW ENGINEERING DESIGN AND DEVELOPMENT (IET)
Prerequisite: Successful completions of Introduction to
Engineering Design, Principles of Engineering and an additional PLTW
Engineering course
Note: A grade of "C" or better in prerequisites recommended or teacher
recommendation
Honors Point
Grade 12
Note: Successful completion of this course earns a practical arts credit

In this capstone course, students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. Students perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams design, build, and test their solutions while working closely with industry professionals who provide mentoring opportunities. Finally, student teams present and defend their original solution to an outside panel. This course is appropriate for 12th gradestudents.

Note: This course may be offered in a Blended Learning Format at Francis Howell High School. Interested students should sign up for the Blended Learning section.

PLTW PRINCIPLES OF BIOMEDICAL SCIENCES (HeS) - NCAA-approved
1 Unit
Prerequisite: None
Honors Point
Grades: 9-12
Note: Successful completion of this course earns a science credit Note: Be prepared for Honors Level work and expectations in the Biomedical Science courses.

The PLTW Biomedical Sciences Program is a Project Lead the Way (PLTW) curriculum sequence which follows a proven hands-on, real-world problem-solving approach to learning. Students explore the concepts of human medicine and are introduced to topics such as physiology, genetics, microbiology and public health. Through activities, like dissecting a heart, students examine the processes, structures and interactions of the human body - often playing the role of biomedical professionals. They also explore the prevention, diagnosis and treatment of disease, working collaboratively to investigate and design innovative solutions to the health challenges of the $21^{\text {st }}$ century such as fighting cancer with nanotechnology. Students also acquire strong teamwork and communication practices, and develop organizational, critical-thinking, and problem-solving skills. Along the way students investigate a variety of careers in biomedical sciences. The program is designed to prepare students to pursue a post-secondary education and careers in the biomedical sciences.
Principles of Biomedical Sciences is the first of four courses in the biomedical sciences sequence that are planned to be phased-in over the next four years (see below for the phase-in process). Students investigate various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, and research processes. This course provides an overview of all the courses in the Biomedical Sciences program and lays the scientific foundation for subsequent courses. This course is designed for $9^{\text {th }}, 10^{\text {th }}, 11^{\text {th }}$ and $12^{\text {th }}$ grade students. College credit is available through Missouri S \& T as well as other institutions.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central High School and Francis Howell High School. Interested students should sign up for the Blended Learning section.
BL1312321 Semester 1 PLTW PRINCIPLES OF BIOMEDICAL SCIENCES BL1312322 Semester 2 PLTW PRINCIPLES OF BIOMEDICAL SCIENCES

## 1312331 Semester 1 1312332 Semester 2

PLTW HUMAN BODY SYSTEMS (HeS) - NCAA-approved 1 Unit
Prerequisite: Successful completion of Principles of Biomedical Sciences. Note: A grade of "C" or better in Principles of Biomedical Science recommended or teacher recommendation.
Note: Can be taken simultaneously with PBS or Medical Interventions with PLTW Science teacher approval.
Note: Be prepared for Honors level work and expectations in the Biomedical Science courses.
Note: Successful completion of this course earns a science credit. Honors Point
Grades: 10-12

The PLTW Biomedical Sciences Program is a Project Lead the Way (PLTW) curriculum sequence which follows a proven hands-on, real-world problem-solving approach to learning. In the Human Body System course, students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real-world cases and often play the role of biomedical professionals to solve medical mysteries. College credit is available through Missouri S \& T as well as other institutions.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central
High School. Interested students should sign up for the Blended Learning section.
BL1312331 Semester 1 PLTW HUMAN BODY SYSTEMS
BL1312332 Semester 2 PLTW HUMAN BODY SYSTEMS

PLTW MEDICAL INTERVENTIONS (HeS) - ncaA-approved
1 Unit
Prerequisite: Successful completion of Principles of Biomedical Sciences.
Note: A grade of " $\mathbf{C}$ " or better in Principles of Biomedical Science
and Human Body Systems recommended or teacher recommendation.
Note: Can be taken simultaneously with Human Body Systems or Biomedical Innovations with PLTW Biomedical teacher approval.
Note: Successful completion of this course earns a science credit.
Honors Point
Grades: 11-12
The PLTW Biomedical Sciences Program is a Project Lead the Way (PLTW) curriculum sequence which follows a proven hands-on, real-world problem-solving approach to learning. Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. College credit is available through Missouri S \& T as well as other institutions.

Note: This course may be offered in a Blending Learning Format at Francis Howell North and Francis Howell High School. Interested students should sign up for the Blended Learning section.

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\text { BL1312341 Semester } 1 & \text { PLTW MEDICAL INTERVENTIONS } \\
\text { BL1312342 Semester } 2 & \text { PLTW MEDICAL INTERVENTIONS }
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## 1312351 Semester 1 <br> 1312352 Semester 2

PLTW BIOMEDICALINNOVATIONS (HeS) - ncaA-approved<br>1 Unit<br>Prerequisite: Successful completion of Principles of Biomedical Sciences, Human Body Systems, and Medical Interventions<br>Note: A grade of "C" or better in Principles of Biomedical Science, Human Body Systems and Medical Interventions recommended or teacher recommendation. Note: Principles of Biomedical Science and Human Body Systems must be completed prior to enrolling in Biomedical Innovations. Medical Interventions and Biomedical Innovations may be taken simultaneously with PLTW teacher approval. Note: Successful completion of this course earns a science credit.<br>Qualifies for Honors credit upon successful completion and presentation of the yearlong curriculum Problem 8 formal research project and the formal presentation of research at the FHSD Stem Night occurring at the end of the school year.<br>Honors Point<br>Grades: 11-12

In this capstone course, students design innovative solutions for the health challenges of the 21 st century and have the opportunity to work on an independent project with a mentor or advisor from a university, hospital, research institution, or the biomedical industry.

Note: This course may be offered in a Blended Learning Format at Francis Howell High School.
Interested students should sign up for the Blended Learning section.
BL1312351 Semester 1 PLTW BIOMEDICAL INNOVATIONS
BL1312352 Semester 2 PLTW BIOMEDICAL INNOVATIONS

AP PLTW COMPUTER SCIENCE PRINCIPLES
1 Unit
( $1^{\text {st }}$ Level Project Lead the Way) (IET) (BMT)
Prerequisite: None
Honors Point
Grades: 9-12
Note: Successful completion of this course earns a practical arts credit.
AP PLTW Computer Science Principles is the first of three Computer Science course offerings and part of a curriculum known as Project Lead the Way (PLTW). This is a foundation course in the Computer Science curriculum sequence that offers a dynamic high school program providing students with real-world learning and hands-on experience. Using Python ${ }^{\mathrm{R}}$ as a primary tool, students learn the fundamentals of coding, data processing, data security, and task automation, while learning to contribute to an inclusive, safe, and ethical computing culture. PLTW strives on student-driven learning while students collaborate to create and present solutions that can improve people's lives. The course is planned for a rigorous pace!! Building enthusiasm for rigorous Computer Science among students is a primary goal of the course. Students need to have an open mind, a desire to work hard, \& have a strong work ethic. It is highly recommended that students have a strong basis for a variety of math concepts. This course meets the third course requirement of the PLTW Engineering sequence. Students may choose to take the AP PLTW Computer Science Principles exam upon completion of this course. Options for college credit may be available depending on college acceptance requirements.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central High School. Interested students should sign up for the Blended Learning section.

## BL0303981 Semester 1 AP PLTW COMPUTER SCIENCE PRINCIPLES

 BL0303982 Semester 2 AP PLTW COMPUTER SCIENCE PRINCIPLES0303911 Semester 1 0303912 Semester 2

AP PLTW COMPUTER SCIENCE A (IET) (BMT)<br>Prerequisite: AP PLTW Computer Science Principles<br>Honors Point<br>Grade 10-12<br>Note: Successful completion of this course earns a practical arts credit.

1 Unit

AP PLTW Computer Science A is an advanced Computer Science course that follows AP PLTW Computer Science Principles and is part of a curriculum known as Project Lead the Way (PLTW). Students collaborate to produce programs and leverage those programs for distributed collection and data processing. Students analyze, adapt, and improve each other's programs while working primarily in JAVA ${ }^{\text {TM }}$ and other industry-standard tools. After completing this course, students are eligible to sit for the AP PLTW Computer Science A test. Options for college credit may be available depending on college acceptance requirements.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central High School.
Interested students should sign up for the Blended Learning section.
BL0303911 Semester 1 AP PLTW COMPUTER SCIENCE A BL0303912 Semester 2 AP PLTW COMPUTER SCIENCE A

PLTW CYBERSECURITY (IET) (BMT)
1 Unit
0303992 Semester 2
Prerequisite: AP PLTW Computer Science Principles
Honors Point
Grade 10-12
Note: Successful completion of this course earns a practical arts credit.
This course 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 PLTW Cybersecurity, students solve problems by understanding and closing these vulnerabilities. PLTW Cybersecurity 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. Options for college credit may be available depending on college acceptance requirements.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central High School.
Interested students should sign up for the Blended Learning section.
BL0303991 Semester 1 PLTW CYBERSECURITY
BL0303992 Semester 2 PLTW CYBERSECURITY

0304101 Semester 1
COMPUTER SCIENCE CAPSTONE (IET) (BMT)
1 Unit
0304102 Semester 2
Prerequisite: AP PLTW Computer Science Principles, and one of AP PLTW Computer Science A or PLTW Cybersecurity Grade 12
Honors Point
Students who have completed AP PLTW Computer Science Principles, and at least one of AP PLTW Computer A or PLTW Cybersecurity, will have the opportunity to take this independent study style course. Students will choose one of two paths - Programming or Cybersecurity. Students will pursue industry certifications within their chosen path, and may have the option to complete job shadowing or internship hours.

## PLTW College Credit Options

IMPORTANT - Students who complete PLTW courses have the option of earning college credit provided that students meet criteria established by universities. Students are strongly encouraged to contact prospective universities to find out if they award credit for PLTW courses. Furthermore, students pursuing this option should check with their prospective universities to see how credits would transfer. Students are encouraged to visit https://www.pltw.org/experience-pltw/student-opportunities to search for colleges and universities that award credit. The options detailed below are only a small subset of the institutions that offer credit.

## Missouri University of Science \& Technology

| PLTW Path: Engineering |  |  |
| :---: | :---: | :---: |
| PLTW Course(s) | Criteria | Process |
| Principles of Engineering Introduction to Engineering Design Civil Engineering/Architecture Digital Electronics Aerospace Engineering Engineering Design \& Development <br> Students can receive three hours of credit for MECH ENG 1720 Introduction to Engineering Design by meeting all criteria and completing any TWO (2) of the courses listed above. | 1. Complete any TWO (2) of the identified PLTW engineering courses <br> 2. Earn at least a "B" in both courses <br> 3. Stanine score a 6 on the PLTW end-ofcourse exam for each -or- a scale score that earns "accomplished" or "distinguished" <br> 4. Pay the $\$ 200$ fee. | To view the complete process, visit https:///pltw.mst.edu/undergraduate-credit/ <br> 1. Complete Application (see link) <br> 2. Submit completed application \& check to your school counselor <br> 3. Counselor sends application, payment, \& transcript to Missouri S \& T |
| PLTW Program: Biomedical Sciences |  |  |
| PLTW Course(s) | Criteria | Process |
| Principles of Biomedical Sciences Human Body Systems Medial Interventions Biomedical Innovation <br> Students can receive four hours of credit for BIO SCI 1113 General Biology and BIO SCI 1219 General Biology Lab by meeting all criteria and competing any TWO (2) of the courses listed above. | 1. Complete any PLTW of the identified biomedical sciences course <br> 2. Earn at least a " $B$ " in the course <br> 3. Stanine score a 6 on the PLTW end-ofcourse exam for each -or- a scale score that earns "accomplished" or "distinguished" Note that Biomedical Innovation does not have an EOC. This would be marked as "N/A" on the application. <br> 4. Pay the $\$ 400$ fee. | To view the complete process, visit https://pltw.mst.edu/undergraduate-credit/ <br> 1. Complete Application (see link) <br> 2. Submit completed application \& check to your school counselor <br> 3. Counselor sends application, payment, \& transcript to Missouri S \& $T$ |
| PLTW Program: Computer Science |  |  |
| PLTW Course(s) | Criteria | Process |
| Computer Science Principles <br> Students can receive three hours of credit for IS\&T 1311 Exposure to Computing Principles. <br> Computer Science A <br> Students can receive three hours of credit for IS\&T 1312 Computer Programming Exposure. <br> Cybersecurity <br> Students can receive three hours of credit for IS\&T 1314 Exposure to Cybersecurity. | 1. Complete any PLTW computer science course <br> 2. Earn at least a " $B$ " in the course <br> 3. Stanine score a 6 on the PLTW end-ofcourse exam for each -or- a scale score that earns "accomplished" or "distinguished" <br> 4. Pay the $\$ 250$ fee for each course | To view the complete process, visit https://pltw.mst.edu/undergraduate-credit/ <br> 1. Complete Application (see link) <br> 2. Submit completed application \& check to your school counselor <br> 3. Counselor sends application, payment, \& transcript to Missouri S \& T |

## University of Central Missouri

| PLTW Path: Engineering |  | Criteria |
| :--- | :--- | :--- |

## Crowder College

| PLTW Path: Engineering |  |  |
| :---: | :---: | :---: |
| PLTW Course(s) | Criteria | Process |
| Introduction to Engineering Design (IED) - AND - Principles of Engineering (POE) <br> Students can receive three hours of credit for the identified combination of courses. | 1. Complete the identified PLTW engineering courses <br> 2. Earn at least a " B " in the courses <br> 3. Earn a scale score that earns "accomplished" or "distinguished" on the PLTW EOCs for each course <br> 4. Pay the $\$ 50$ fee for each course | To view the complete process, visit https://www.crowder.edu/academics/ctec/pro grams/pltw-college-partner/ <br> 1. Complete the Crowder College Request for Prior Learning Credit Form <br> 2. Submit completed request form \& check to your school counselor <br> 3. Counselor sends application, payment, \& transcript to Crowder College. |

## Ozarks Technical Community College

| PLTW Path: Engineering |  |
| :---: | :---: |
| PLTW Course(s) | Criteria \& Process |
| Civil Engineering \& Architecture <br> Students can receive four hours of credit for DDT 160 Residential Architecture. | 1. Complete the identified PLTW engineering courses <br> 2. Attend Ozarks Technical Community College <br> 3. While in high school, create a student account in OTC's CATEMA system. <br> 4. Enroll in the OTC course. <br> 5. Maintain a high school GPA of at least 2.0. <br> 6. Earn at least a B in the articulated PLTW class. <br> 7. While a student at OTC, submit a Student Application for Articulated Credit. |
| PLTW Path: Computer Science |  |
| PLTW Course(s) | Criteria \& Process |
| Computer Science A <br> Students can receive three hours of credit for CIS 170 Java Programming. <br> Computer Science Principles <br> Students can receive four hours of credit for CIS 120 Intro to Computer Programming. <br> Cybersecurity <br> Students can receive four hours of credit for CYB 106 Intro to Cybersecurity or CYB 123 Information Technology Security | 1. Complete the identified PLTW engineering courses <br> 2. Attend Ozarks Technical Community College <br> 3. While in high school, create a student account in OTC's CATEMA system. <br> 4. Enroll in the OTC course. <br> 5. Maintain a high school GPA of at least 2.0. <br> 6. Earn at least a B in the articulated PLTW class. <br> 7. While a student at OTC, submit a Student Application for Articulated Credit. |

## State Fair Community College

| PLTW Path: Biomedical Science |  |  |
| :---: | :---: | :---: |
| PLTW Course(s) | Criteria | Process |
| Principles of Biomedical Science -ANDHuman Body Systems -AND- Medical Interventions <br> Students can receive three hours of credit for BIO 100 General Biology, BIO 103 Human Biology, or five hours of credit for BIO 112 General Biology with Lab. <br> Principles of Biomedical Science -ANDHuman Body Systems -AND- Medical Interventions <br> Students can receive three hours of credit for BIO 100 General Biology. <br> Principles of Biomedical Science -ANDHuman Body Systems -AND- Medical Interventions <br> Students can receive three hours of credit for BIO 100 General Biology. | 1. Complete the identified PLTW courses <br> 2. Earn at least a " $B$ " in the courses <br> 3. To earn credit for BIO 100 or 103, earn a stanine score a 6 on at least one PLTW EOC exam -and- a scale score that earns of 380 or higher on at least one EOC exam <br> 4. To earn credit for BIO 112, earn a stanine score of 7 on at least two PLTW EOC exams -and- a scale score of 420 or higher on at least two PLTW EOC exam | To view the complete process, visit https://www.sfccmo.edu/academics-programs/project-lead-the-way/ <br> 1. Complete the State Fair Community College Recommendation for Transcripted Articulated College Credit form <br> 2. Submit completed request form to your school counselor <br> 3. Counselor sends application, \& transcript to State Fair Community College. |

## Graduation Requirements:

3.0 units of science credit

College Preparatory Recommendations:
4.0 (or more) units of science credit

| GRADE | $9^{\text {TH }}$ | $10^{\text {TH }}$ | $11^{\text {TH }}$ | $12^{\text {TH }}$ |
| :---: | :---: | :---: | :---: | :---: |
| Required Courses | Physical Science | Biology* Honors Biology* | Science Electives | Science Electives |
|  | Biology* | Science Electives |  |  |
|  | Honors Biology* |  |  |  |


| GRADE | $9^{\text {TH }}$ | $10^{\text {TH }}$ | $11^{\text {TH }}$ | $12^{\text {TH }}$ |
| :---: | :---: | :---: | :---: | :---: |
| Elective Courses | PLTW Principles of Biomedical Science | PLTW Human Body Systems | PLTW Medical Interventions | PLTW Biomedical Innovations |
|  |  | Chemistry* | Chemistry* | Chemistry* |
|  |  | Honors Chemistry* | Honors Chemistry* | Honors Chemistry* |
|  |  | Physics I* | Physics I* | Physics I* |
|  |  | AP Physics I* | AP Physics I* | AP Physics I* |
|  |  | Environmental Science | Environmental Science | Environmental Science |
|  |  | Earth Science | Earth Science | Earth Science |
|  |  | Honors Anatomy <br> \& Physiology | Honors Anatomy <br> \& Physiology | Honors Anatomy \& Physiology |
|  |  | Biology II | Biology II | Biology II |
|  |  | Honors Biology III | Honors Biology III | Honors Biology III |
|  |  | AP Biology* | AP Biology* | AP Biology* |
|  |  | PLTW Principles of Biomedical Science | AP Chemistry* | AP Chemistry* |
|  |  |  | AP Physics II* | AP Physics II* |
|  |  |  | PLTW Principles of Biomedical Science | PLTW Principles of Biomedical Science |
|  |  |  | PLTW Human Body Systems | PLTW Human Body Systems |
|  |  |  |  | PLTW Medical Interventions |

*These courses are ACT Prep Courses.

Physical Science is an introductory course to the concepts of physics and chemistry. In this course students use science and engineering practices and cross-cutting-concepts to investigate and understand the principles that govern the physical and chemical systems of the universe including energy, force and motion, and the properties and interactions of matter. This course serves as a foundation for the study of other sciences.

## 1312151 Semester 1 1312152 Semester 2

BIOLOGY ${ }_{\text {- NCAA-approved }}$
1 Unit
Prerequisite: Completion of Physical Science or equivalent ACT Prep Course

Biology is an introductory course in the life sciences in which students use science and engineering practices and cross cutting concepts to investigate and understand the principles that govern the biological systems including the cell structure and function, homeostasis, variation and inheritance, evolution, sustainability, and man's impact on our world.

## 1312251 Semester 1 <br> HONORS BIOLOGY- ncaA-approved <br> 1 Unit <br> 1312252 Semester 2 Prerequisite: Completion of Physical Science or equivalent; meet honors criteria ACT Prep Course

Biology is an introductory course in the life sciences in which students use science and engineering practices and cross cutting concepts to investigate and understand the principles that govern the biological systems including the cell structure and function, homeostasis, variation and inheritance, evolution, sustainability, and man's impact on our world. This course will emphasize critical thinking as well as advanced reading, writing, and problem-solving skills. This class will provide a foundation for advanced science courses. This course requires a high degree of independent initiative.

## 1312201 Semester 1 1312202 Semester 2

AP BIOLOGY (HeS) (NrA) - NCAA-approved
1 Unit
Prerequisite: Completion of Biology with a grade of "B" or better or teacher recommendation; completion of Chemistry and statistics are helpful but not required. ACT Prep Course

This course is designed for the advanced and committed biology student (Honors Biology and Honors Chemistry are recommended but not required.) Topics include biochemistry, cellular energy, heredity, molecular genetics, evolution, diversity of organisms, and ecology. Lab experiences are an integral part of the course. This course will emphasize critical thinking as well as advanced reading, writing, and problem-solving skills. This course requires a high degree of independent initiative and is a preparatory course for the AP Biology exam. Advanced credit, when available.

Note: This course may be offered in a Blending Learning Format at Francis Howell High, Francis Howell North, and Francis Howell Central High School. Interested students should sign up for the Blended Learning section.

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\begin{array}{ll}
\text { BL1312201 Semester } 1 & \text { AP BIOLOGY } \\
\text { BL1312202 Semester } 2 & \text { AP BIOLOGY }
\end{array}
$$

1312451 Semester 1
CHEMISTRY(HeS)(IET) - NCAA-approved
1 Unit 1312452 Semester 2

Prerequisite: Physical Science (C or better recommended); Completion of Algebra I
ACT Prep Course
This course is highly recommended for students planning on enrolling in college or technical school. General Chemistry is the fundamental course in the study of matter and energy. Topics include: experiment design, measurement skills, atomic theory, classification of matter, nomenclature, stoichiometry, gas laws, periodic table, chemical bonding, solutions, and acids and bases. Lab experiences are an integral part of the course.

| 1312501 Semester 1 | HONORS CHEMISTRY (HeS) (IET) - NCAA-approved | 1 Unit |
| :--- | :--- | :--- |
| 1312502 Semester 2 | Prerequisite: Physical Science (C or better); concurrent enrollment inor <br> completion of Algebra II; meet honors criteria. |  |
|  | ACT Prep Course |  |

This course is highly recommended for college-bound students. In this course, students will be introduced to the study of the composition and properties of matter. Topics include measurement skills, atomic theory, classification of matter, nomenclature, stoichiometry, gas laws, periodic table, chemical bonding, solutions, and acids and bases. Lab experiences are an integral part of this course. This course will emphasize critical thinking as well as advanced reading, writing, and problem-solving skills. This course requires a high degree of independent initiative.

## 1312551 Semester 1 1312552 Semester 2

AP CHEMISTRY (HeS) (IET) - NCAA-approved
1 Unit
Prerequisite: Completion of Honors Chemistry and Algebra II, with a grade of $B$ or better. Chemistry may be substituted for Honors Chemistry with approval of the AP Chemistry instructor. ACT Prep Course

This course is designed for the advanced and committed chemistry student. Topics include: solutions, physical behaviors of gases, thermochemistry, electrochemistry, Kinetic Theory, and chemical equilibria. Lab experiences are an integral part of course. This course will emphasize critical thinking as well as advance reading, writing, and problem-solving skills. This is an Advanced Placement course that prepares the student to take the AP Chemistry exam. Advanced credit, when available. This course requires a high degree of independent initiative.

## 1312601 Semester 1 1312602 Semester 2

PHYSICS I (IET) - NCAA-approved
1 Unit
Prerequisite: Concurrent enrollment in or completion of Algebra II or teacher recommendation
ACT Prep Course
This course is designed for the intermediate to advanced student that has solid algebra skills. The course will cover standard topics of entry level physics including: linear motion, circular motion, two-dimensional motion, forces, Newton's Laws, energy, electricity, magnetism and introductory atomic and nuclear structures. Students will develop problem-solving skills through lab activities, interactive software, problem sets and classroom discussions.

## 1312661 Semester 1 <br> 1312662 Semester 2

AP PHYSICSI (IET) - NCAA-approved
1 Unit
Prerequisite: Completion of Algebra II with a grade of " B " or better; concurrent enrollment in Honors Pre Calculus recommended; meet honors criteria.
ACT Prep Course

AP Physics I is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry- based learning, students will develop scientific critical thinking and reasoning skills. The student should have solid algebra skills and have been introduced to trigonometry. This course requires a high degree of independent initiative. This is a preparatory course for the AP Physics I exam. Advanced credit, when available.

## 1312851 Semester 1 1312852 Semester 2 <br> AP PHYSICS II (IET) - NCAA-approved 1 Unit <br> Prerequisite: AP Physics I with a grade of " B " or better or teacher recommendation; concurrent enrollment in Calculus recommended. ACT Prep Course

This is a laboratory and mathematical intensive course. This course will build on the problem-solving skills developed and concepts learned in AP Physics I. Topics include: Newtonian mechanics, electricity and magnetism. Students should have extensive algebra and trigonometric skills. This course requires a high degree of independent initiative. This is a preparatory course for the AP Physics II exam. Advanced credit, when available.

The student will explore various fundamental and advanced ecological concepts. Topics include: Foundations of Environmental Studies, water quality, solid waste management, air quality, human population, energy ecosystems, and biodiversity. Environmental responsibility will be emphasized through class discussions, lab situations, outdoor exploration and investigation, and real-world applications.

1312411 Semester 1<br>EARTH SCIENCE (NrA) - NCAA-approved<br>1 Unit 1312412 Semester 2<br>Prerequisite: Completion of Biology

Students will study the universality of change from the rock cycle through plate tectonics, as well as weather and the Earth's position in space. Topics include: physical properties of matter, rocks and minerals, weathering and erosion, historical geology, plate tectonics, volcanism and earthquakes, weather, natural disasters, and astronomy. Lab experiences are an integral part of this course.

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1312311 Semester 1
1312312 Semester 2
HONORS ANATOMY \& PHYSIOLOGY (HeS) - NCAA-approved
1 Unit 1312312 Semester 2
Prerequisite: Completion of Biology with a "C" or better recommended or teacher recommendation.
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This is a rigorous course where students will study medical terminology, eleven body systems and their associated organs, and diseases associated with each human system. Students will learn through inquiry-based lessons and laboratory experiences including dissections. This course requires a high degree of independent initiative.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central High School. Interested students should sign up for the Blended Learning section.
BL1312311 Semester 1 Honors Anatomy \& Physiology BL1312312 Semester 2 Honors Anatomy \& Physiology

## 1312801 Semester 1 1312802 Semester 2

BIOLOGY II (Zoology/Botany) (NrA) (HeS) - NCAA-approved
1 Unit
Prerequisite: Completion of Biology with a "C" or better recommended or teacher recommendation.

This is a rigorous course where students will study the classification, structures and functions, and the life cycles (reproduction) of plants and animals with emphasis on local flora and fauna. Students will learn through inquiry-based lessons, specimen collections, specimen dissection, live specimen lab work and research. This course requires a high degree of independent initiative.

Note: This course may be offered in a Blended Learning Format at Francis Howell High School.
Interested students should sign up for the Blended Learning section.
BL1312801 Semester 1 BIOLOGY II (Zoology/Botany)
BL1312802 Semester 2 BIOLOGY II (Zoology/Botany)

## 1312751 Semester 1 1312752 Semester 2 <br> HONORS BIOLOGY III (Human Genetics) (HeS) - ncAA-approved <br> 1 Unit <br> Prerequisite: Completion of Biology with a "C" or better recommended or teacher recommendation. (Biology II is not required).

This is a rigorous course where students will study the science of genetics. Topics will include: human cellular processes, DNA and the processes associated with it, epigenetics, genetic inheritance with an emphasis on genetic abnormalities, through the analysis of Punnett squares and pedigrees, fetal development, immunity and cancer, human biotechnology, gene therapy, and microbiology. Students will learn through inquiry-based lessons, research, and laboratory experiences. This course requires a high degree of independent initiative and research.

1312321 Semester 1 1312322 Semester 2

PLTW PRINCIPLES OF BIOMEDICAL SCIENCES (HeS)- NcAA-approved 1 Unit
Prerequisite: None
Note: Successful completion of this course earns a sciencecredit.
Honors Point
Grades: 9-12
Note: Be prepared for Honors level work and expectations in the biomedical science courses.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central High School and
Francis Howell High School. Interested students should sign up for the Blended Learning section.

## BL1312321 Semester 1 PLTW PRINCIPLES OF BIOMEDICAL SCIENCES BL1312322 Semester 2 PLTW PRINCIPLES OF BIOMEDICAL SCIENCES

The PLTW Biomedical Sciences Program is a Project Lead the Way (PLTW) curriculum sequence which follows a proven hands-on, real-world problem-solving approach to learning Students explore the concepts of human medicine and are introduced to topics such as physiology, genetics, microbiology and public health. Through activities, like dissecting a heart, students examine the processes, structures and interactions of the human body - often playing the role of biomedical professionals. They also explore the prevention, diagnosis and treatment of disease, working collaboratively to investigate and design innovative solutions to the health challenges of the $21^{\text {st }}$ century such as fighting cancer with nanotechnology. Students also acquire strong teamwork and communication practices, and develop organizational, critical-thinking, and problem-solving skills. Along the way students investigate a variety of careers in biomedical sciences. The program is designed to prepare students to pursue a post-secondary education and careers in the biomedical sciences. Therefore, strong reading, writing, and science skills are essential to success in this course.

Principles of the Biomedical Sciences is the first of four courses in the Biomedical Sciences sequence that are planned to be phased-in over the next four years (see below for the phase-in process). Students investigate various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, and research processes. This course provides an overview of all the courses in the Biomedical Sciences program and lays the scientific foundation for subsequent courses. This course is designed for $9^{\text {th }}, 10^{\text {th }}$, $11^{\text {th }}$ and $12^{\text {th }}$ grade students. College credit is available through Missouri $S \& T$ as well as other institutions for students earning a 6 or higher on the end of course assessment (optional).

1312331 Semester 1 1312332 Semester 2<br>PLTW HUMAN BODY SYSTEMS (HeS)- ncaA-approved<br>1 Unit<br>Prerequisite: Successful completion of Principles of Biomedical Sciences.<br>Note: A grade of " $C$ " or better in prerequisites recommended orteacher recommendation.<br>Note: Can be taken simultaneously with PBS or Medical Interventions with PLTW Science teacher approval.<br>Note: Successful completion of this course earns a science credit.<br>Honors Point<br>Grades: 10-12<br>Note: Be prepared for Honors level work and expectations in the Biomedical Science courses.

Note: This course may be offered in a Blended Learning Format at Francis Howell High School. Interested students should sign up for the Blended Learning section.

BL1312331 Semester 1 PLTW BIOMEDICAL INNOVATIONS BL1312332 Semester 2 PLTW BIOMEDICAL INNOVATIONS

The PLTW Biomedical Sciences Program is a PLTW curriculum sequence which follows a proven hands-on, realworld problem-solving approach to learning. In the Human Body System course, students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries. College credit is available through Missouri S \& T as well as other institutions for students earning a 6 or higher on the end of course assessment (optional).

## 1312341 Semester 1 1312342 Semester 2

PLTW MEDICAL INTERVENTIONS (HeS)- ncaa-approved 1 Unit Prerequisite: Successful completion of Principles of Biomedical Sciences and Human Body Systems.<br>Note: A grade of " $C$ " or better in prerequisites recommended or teacher recommendation.<br>Note: Can be taken simultaneously with Human Body Systems or Biomedical Innovations with PLTW Biomedical teacher approval. Note: Successful completion of this course earns a science credit. Honors Point<br>Grades 11-12

The PLTW Biomedical Sciences Program is a Project Lead the Way (PLTW) curriculum sequence which follows a proven hands-on, real-world problem-solving approach to learning. Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. College credit is available through Missouri S \& T as well as other institutions for students earning a 6 or higher on the end of course assessment (optional).

Note: This course may be offered in a Blended Learning Format at Francis Howell High School and Francis
Howell North. Interested students should sign up for the Blended Learning section.

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\begin{array}{ll}
\text { BL1312341 Semester } 1 & \text { PLTW MEDICAL INTERVENTIONS } \\
\text { BL1312342 Semester } 2 & \text { PLTW MEDICAL INTERVENTIONS }
\end{array}
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## 1312351 Semester 1 <br> 1312352 Semester 2

PLTW BIOMEDICALINNOVATIONS (HeS)- ncaa-approved 1 Unit
Prerequisite: Successful completion of Principles of Biomedical Sciences, Human Body Systems, and Medical Interventions. Note: A grade of "C" or better in Principles of Biomedical Science, Human Body Systems and Medical Interventions recommended or teacher recommendation.
Note: Principles of Biomedical Science and Human Body Systems must be completed prior to enrolling in Biomedical Innovations. Medical Interventions and Biomedical Innovations may be taken simultaneously with PLTW teacher approval. Note: Successful completion of this course earns a science credit. Qualifies for Honors credit upon successful completion and presentation of the yearlong curriculum Problem 8 formal research project and the formal presentation of research at the FHSD Stem Night occurring at the end of the school year.
Honors Point
Grades: 11-12
Note: This course may be offered in a Blended Learning Format at Francis Howell High School. Interested students should sign up for the Blended Learning section.

BL1312351 Semester 1 PLTW BIOMEDICAL INNOVATIONS BL1312352 Semester 2 PLTW BIOMEDICAL INNOVATIONS

In this capstone course, students design innovative solutions for the health challenges of the 21 st century and have the opportunity to work on an independent project with a mentor or advisor from a university, hospital, research institution, or the biomedical industry.

## Social Studies

Graduation Requirements: 3.0 units of social studies credit College Preparatory Recommendations: $\mathbf{4 . 0}$ (or more) units of social studies credit

| GRADE | $9^{\text {th }}$ | $10^{\text {th }}$ | $11^{\text {th }}$ | $12^{\text {th }}$ |
| :---: | :---: | :---: | :---: | :---: |
| Recommended Course Sequence | Students may choose one of the following: | Students may choose one of the following: | Students may choose one of the following: | Students may choose to take one full year or two semester courses: |
|  | US History** | Modern World History** | American Government** | Students may choose one or more full year or two or more semester electives |
|  | Honors US History** | AP European History** or AP World History** | AP Government and Politics** | Students may choose one or more full year or two or more semester electives |
|  | AP Human Geography | AP European History** or AP World History** | AP Government and Politics** | AP US History One or more full year course(s) Two semester electives |



[^1]This course will focus on domestic and foreign policy including the post-Civil War era, the role of the United States as a world power, the post-Cold War era, and modern United States history. Students will also examine the traditions, attitudes, and values that reflect our national heritage and which have been shaped by our nation's history.

1513401 Semester 1
1513402 Semester 2
HONORS UNITED STATES HISTORY ${ }_{-}$NCAA-approved
1 Unit
Prerequisite: Grade 9 and meet honors criteria
This course will focus on domestic and foreign policy including the post-Civil War era, the role of the United States as a world power, the post-Cold War era, and modern United States history. Students will also examine the traditions, attitudes, and values that reflect our national heritage and which have been shaped by our nation's history. Emphasis will be placed on the advanced development of reading, writing, and critical thinking skills, particularly in the analysis of historical data and primary sources.

## 1514001 Semester 1 1514002 Semester 2

MODERN WORLD HISTORY - NCAA-approved
1 Unit
Prerequisite: Grade 10 and transfer students
This course will explore the heritage of the Renaissance in Europe, the rise and fall of monarchies and the ensuing political and industrial revolutions, imperialism, the world wars of the twentieth century, and the sociopolitical realities of the modern world. Students will explore the interaction and mutual influence occurring between civilizations as well as the technological and intellectual developments that have had a major impact on world civilizations.

## 1513551 Semester 1 <br> 1513552 Semester 2

## AP EUROPEAN HISTORY (HuS)- ncaA-approved

1 Unit

This course will begin with the foundations of western civilization and follow its development in Europe through modern times. The study of European history since 1450 introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live. Without this knowledge, we would lack the context for understanding the development of contemporary institutions, the role of continuity and change in present-day society and politics, the evolution of current forms of artistic expression and intellectual discourse. In addition to providing a basic narrative of events and movements, the goals of this course are to develop (a) an understanding of some of the principle themes in modern European history, (b) an ability to analyze historical evidence and historical interpretations, and (c) an ability to express historical understanding in writing. Emphasis will be placed on the advanced development of reading, writing, and critical thinking skills, particularly in the analysis of historical data and sources. Students may choose to take the Advanced Placement European History exam and possibly earn college credit.

## 1514161 Semester 1 1514162 Semester 2

AP WORLD HISTORY- MODERN (HuS) - NCAA-approved
1 Unit
Prerequisite: Grade 10, 11, or 12
In AP World History: Modern, students investigate significant events, individuals, developments, and processes from 1200 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation.

This course will develop student understanding and competence in American citizenship. During the first semester students will focus on the heritage of American government, the U.S. Constitution, and politics and elections. During the second semester students will focus on the branches of government, civil liberties and civil rights, citizenship, foreign policy, and state and local government. This course will fulfill Missouri state graduation requirements. Students will be required to pass the Missouri Constitution Test and the United States Constitution Test with at least a $60 \%$.

Note: This course may be offered in a Blended Learning Format at Francis Howell Central High School.
Interested students should sign up for the Blended Learning section.

# BL1513051 Semester 1 AMERICAN GOVERNMENT <br> BL1513052 Semester 2 AMERICAN GOVERNMENT 

1513151 Semester 1<br>AP GOVERNMENT AND POLITICS (HuS)- ncaA-approved<br>1 Unit<br>\section*{1513152 Semester 2}<br>Prerequisite: Grade 11 or 12 or transfer students

This course is an introductory college course in United States government and politics. This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. Objectives for the course include knowing important facts, concepts, and theories pertaining to U.S. government and politics; understanding typical patterns of political processes and behavior and their consequences (including the components of political behavior, the principles used to explain or justify various government structures and procedures, and the political effects of these structures and procedures); being able to analyze and interpret basic data relevant to U.S. government and politics (including data presented in charts, tables, and other formats); and being able to critically analyze relevant theories and concepts, apply them appropriately, and develop their connections across the curriculum. Emphasis will be placed on the advanced development of reading, writing, and critical thinking skills, particularly in the analysis of data and sources. Students may choose to take the Advanced Placement U.S. Government and Politics exam and possibly earn college credit. This course will fulfill Missouri state graduation requirements. Students will be required to pass the Missouri Constitution Test and the United States Constitution Test with at least a $60 \%$.

Note: This course may be offered in a Blended Learning Format at Francis Howell North High School.
Interested students should sign up for the Blended Learning section.
BL1513151 Semester 1 AP GOVERNMENT AND POLITICS
BL1513152 Semester 2 AP GOVERNMENT AND POLITICS

1513753
PSYCHOLOGY (HuS) (BMT) (HeS)-ncAA-approved
. 5 Unit
Prerequisite: Grade 11-12
This course is an introduction to the study of human behavior. Topics include a brief introduction to the history and development of psychology as a science, methods of psychological research, processes of sensation and perception, intelligence and creativity, principles of learning, process of remembering and forgetting, thinking, biological influences on behavior, motivation and emotions, understanding and measuring personality, and the identification and treatment of various psychological disturbances. Students will continue to develop skills in organizing materials, note-taking, communications, researching, and critical thinking.

Note: This course may be offered in a Blended Learning Format at Francis Howell North High School. Interested students should sign up for the Blended Learning section.

BL1513753
PSYCHOLOGY

Sociology is the study of group dynamics. The student will explore subjects such as socialization, culture and group interaction, social structure, communal change and societal problems. Students will learn basic skills in sociological research, will be able to define key sociology terms, and will be encouraged to relate sociological concepts to their own lives. Finally, students will identify the contributions sociology has made to improve the human condition. Students will continue to develop skills in organizing materials, note-taking, communicating, research, and critical thinking.

1513603
CONTEMPORARYISSUES (HuS)-NCAA-approved
. 5 Unit
Prerequisite: Grade 10-12
This course will involve students with the issues, problems, and events in our world today. State, local, national, and international issues will be highlighted on a continuing basis. Emphasis will be placed on the inter-relationship of concepts from the various social sciences - psychology, sociology, economics, and political science - and how they relate to the issues and events mentioned above. A variety of electronic resources will be used for historical background and additional data. Students will continue to develop skills in organizing materials, note-taking, communicating, research, and critical thinking. This course may be repeated for further credit.

Note: This course may be offered in a Blended Learning Format at Francis Howell. Interested students should sign up for the Blended Learning section.

BL1513603 CONTEMPORARYISSUES

## 1513901 Semester 1 <br> 1513902 Semester 2

## AP UNITED STATES HISTORY (HuS) - ncAA-approved

## 1 Unit

This course will focus on our nation's history from discovery and colonization to the present. The AP U.S. History course is designed to deal critically with the problems and materials in U.S. history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full- year introductory college courses. Students will learn to assess historical materials-their relevance to a given interpretive problem, reliability, and importance-and to weigh the evidence and interpretations presented in historical scholarship. This course will develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format. Emphasis will be placed on the advanced development of reading, writing, and critical thinking skills, particularly in the analysis of historical data and primary sources. Students may choose to take the Advanced Placement United States History exam and possibly earn college credit.

Note: This course may be offered in a Blended Learning Format at Francis Howell North High School. Interested students should sign up for the Blended Learning section.

> BL1513901 Semester 1 AP UNITED STATES HISTORY
> BL1513902 Semester 2 AP UNITED STATES HISTORY

## 1513771 Semester 1 <br> 1513772 Semester 2

AP PSYCHOLOGY (HuS) (BMT) (HeS) ${ }_{\text {- ncAA-approved }}$
1 Unit
Prerequisite: Grade 11-12 or transfer students
This course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings, and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. Emphasis will be placed on the advanced development of reading, writing, and critical thinking skills. Students may choose to take the Advanced Placement Psychology exam and possibly earn college credit.

Note: This course may be offered in a Blended Learning Format at Francis Howell North High School. Interested students should sign up for the Blended Learning section.

> BL1513771 Semester 1 AP PSYCHOLOGY
> BL1513772 Semester 2 AP PSYCHOLOGY

The year-long course is designed to expand a student's understanding of geography beyond location to include a connection with sociology, political science, economics, demographics, and history. Students will learn how to use, interpret, and evaluate a variety of geographic and thematic maps along with numerous other sources of statistical data. The course will also delve deeply into the study of population, culture, political organization, land development and use (both urban and rural), industrialization, economic development, and globalization. Overall, the course will give students a sophisticated view of the local, regional, national, and global world in which they live. This course is offered as an introductory level college class. Furthermore, upon completion students will have the opportunity to earn college credit through the Advanced Placement Exam.

## 1513853

## MODERN AMERICAN CULTURE (HuS)-ncaA-approved

. 5 Unit Prerequisite: Grade 11-12

This course will explore modern American culture and its impact on history by providing an introduction to critical issues and approaches in the study of modern American history. Culture is all around us, influencing how we think, how we feel, how we vote, how we live our lives in countless ways. This course will use our own expertise as consumers of media as a take-off point for exploring the various roles played by mass-mediated culture in our lives. We will look primarily at television, film, advertising, music, sports, fashion and new technologies that have impacted our ability to save time and energy in the household and our daily lives. We will analyze how critical factors such as ethnicity, race, gender, class, age, and region are shaped by and reshaped in our culture. Students will continue to develop skills in organizing materials, note-taking, communication, researching, and criticalthinking.

1516683

> BLACK HISTORY (HuS)-NCAA-approved (pending Board approval)
> Prerequisite: Grade 10-12
. 5 Unit

This course will investigate history through the Black perspective and provide students a Black history consciousness. This course will center on Black voices in history and honor their identity as well as their dignity. Students will study historical and contemporary experiences through a Black historical lens to better understand and recognize the accomplishments and achievements of Blacks in shaping the United States. This course will allow students to enhance their understanding of history through their exploration and analysis of primary and secondary sources. Content in this course will help students utilize their critical thinking skills, will be inquiry-based, and will include reading, writing, and oral presentation skills to demonstrate understanding of Black History.

## St. Charles County - Center for Advanced Professional Studies (CAPS)

St. Charles County CAPS provides high school students in St. Charles County with a pre-professional, innovative and entrepreneurial education through career-oriented experiences that are both hands on and real world. St. Charles County CAPS students are immersed in professional environments engaging in curriculum developed by industry professionals and program instructors - ensuring that what is taught in the classroom is relevant to the workforce. Learning is enhanced by project work direct from industry partners who engage to mentor students and ensure timely, accurate and real project results.

Learning at St. Charles County CAPS is real-time, real-world and hands-on. Emphasis is placed on developing professional skills, such as communication and collaboration, which employers deem highly important to individual success.

Students attend the CAPS program for half of their school day and the other half is at their home school. The morning CAPS session is from 7:30 AM to 10 AM and the afternoon session is from 11:30 PM to 2:00 PM. Students who participate in St. Charles County CAPS must provide their own transportation to and from their home school and the business site. $95 \%$ attendance is expected to remain in the course (outside of quarantine for COVID).

A complete application is required to apply. CAPS interviews may occur as well for strand placement purposes. The CAPS application can be found under Enrollment on the St. Charles County CAPS website: scccaps.org.

1818201 Semester 1
1818202 Semester 2

TECHNOLOGY SOLUTIONS (IET) (BMT) (AC)<br>Prerequisite: None, but completion of the CAPS application is required<br>(PLTW Computer Science or related business courses<br>preferred) Grade:11-12<br>Credit: 1.5 Practical Arts credits per semester<br>Classroom Location:<br>Lewis \& Clark<br>2400 Zumbehl Road<br>St. Charles, MO 63301

## Technology Solutions - Information Technology

Overview: This course strand is designed for students interested in developing professional and technical skills required for careers in various areas of information technology. Students will be provided a challenging, innovative, authentic, experiential learning environment that allows them to discover personal passions. Students will develop professional skills that are necessary to thrive in collaborative, innovative, and fast-paced environments. Students will have the opportunity to explore the following areas as they relate to PCs and mobile devices: software engineering, web development, operating systems, hardware technologies, network design/technologies, management information systems and emerging technologies. Students will perform real world projects for clients utilizing the expertise of diverse guest instructors, mentors and business partners. Students will collaborate with mentors and business partners to produce client projects and design their own products or prototypes, as well as solve real world problems. Students must provide their own transportation to and from the business site. $95 \%$ attendance is expected to remain in the course (outside of quarantine for COVID).

## Technology Solutions - Creative Media

Overview: This course strand is designed for students interested in developing professional and technical skills required for careers in various areas of creative media. Students will be provided a challenging, innovative, authentic, experiential learning environment that allows them to discover personal passions. Students will develop professional skills that are necessary to thrive in collaborative, innovative, and fast-paced environments. Students will have the opportunity to explore the following areas as they relate to creative media: video production, graphic design, audio production, and digital photography. Students will perform real world projects for clients utilizing the expertise of diverse guest instructors, mentors, and business partners. Students will collaborate with mentors and business partners to produce client projects and design their own products or prototypes, as well as solve real world problems. The course culminates in an instructor-student agreed upon passion project and internship. Students must provide their own transportation to and from the business site. 95\% attendance is expected to remain in the course (outside of quarantine for COVID).

## 1818301 Semester 1 <br> 1818302 Semester 2

HEALTHCARE (HeS)<br>Prerequisite: None, but completion of the CAPS application is required<br>(Anatomy \& Physiology/PLTW Human Body Systems or equivalent recommended)<br>Grade: 11-12<br>Credit: 1.0-1.5 Science credits per semester depending on course hours of location<br>Classroom Locations:<br>Instructors will notify students of classroom locations

Hospitals:<br>BJC Progress West Hospital<br>BJC St. Peters Hospital<br>SSM Health St. Joseph Hospital - Lake St. Louis<br>SSM Health St. Joseph Hospital - St. Charles<br>Various non-hospital healthcare facilities in St. Charles County

Overview: This course strand is ideal for students who intend to go into a medical field. Students will engage in the team approach of healthcare at hospitals and/or healthcare facilities, giving students actual experience with health practitioners. Students will have the opportunity to learn about a variety of careers in the medical field, from medical practitioner to hospital administrator. Students will participate in medical training and clinical observational rotation assignments. Students will develop professional skills that are necessary to thrive in collaborative, innovative, and fastpaced environments. Students will learn about Safety, HIPAA, CPR, and Basic First Aid competencies. In addition, students will have a capstone project. Students must provide their own transportation to and from the business site. $95 \%$ attendance is expected to remain in the course (outside of quarantine for COVID).

## 1818401 Semester 1

1818402 Semester 2

GLOBAL BUSINESS/ENTREPRENEURSHIP (BMT)<br>Prerequisite: None, but completion of the CAPS application is required Grade: 11-12<br>Credit: 1.5 Practical Arts credits per semester Classroom Location(s):<br>Stauder Technologies (M, T, R, \& F)<br>114 Mexico Court<br>St. Peters, MO 63376<br>TBD on Wednesdays

Overview: This course strand is designed for students to create real startup ventures and solve real business needs. They will be mentored by real employers and gain marketable professional skills in an off-campus location. This course will provide students a challenging, innovative, authentic, experiential learning environment that allows them to discover personal passions. Students will develop professional skills that are necessary to thrive in collaborative, innovative, and fast-paced environments. Their growth mindset and confidence will increase. Students will learn start- up principles and develop an entrepreneurial mindset. They will turn ideas into actions, by validating their ideas, perfecting a pitch, and seeking resources and opportunities for a product or service. Students will also work with organizations to work on projects that solve real needs. This course culminates in an instructor-student agreed upon passion project and internship showcasing their work in this exciting field of study. Students must provide their own transportation to and from the business site. $95 \%$ attendance is expected to remain in the course (outside of quarantine for COVID).

## College Credit for all three CAPS strands:

- Lindenwood University
* Profession-Based Essentials (1 credit hour): A profession-based skills development course that prepares students for a profession-based work experience, internship, or practicum.
* Profession-Based Work Experience (1-3 credit hours): A profession-based work experience that enables students to work within a business context, clarify their career goals, and develop their professional skills under the supervision, guidance, and mentoring of an industry professional. Credit will vary depending upon time spent. One hour of credit requires 50 hours of work time.


## Test Preparation

## ACT PREP SKILLS

. 5 Unit
Prerequisite: Priority enrollment to juniors and seniors
Recommended

- Jr - successful completion of Geometry
- Sr - concurrent with Geometry or higher

ACT Prep Skills is an elective course designed to prepare students for the ACT test. Students will learn test-taking strategies in addition to a review of skills and knowledge associated with the tested content areas of English, Math, Reading, Science and Writing. This course is designed to increase scores of students that are in the range of 16 26. Students enrolled in the course will be expected to sign up and sit for an actual ACT test.

## World Language

| SPECIFY LANGUAGE: | LEVEL 1-WORLD LANGUAGE (HuS) (BMT) (AC)- NCAA-approved | 1 Unit |  |
| :--- | :--- | :--- | :--- |
| FRENCH | Semester 1: 0616001 | Semester 2: 0616002 |  |
| GERMAN | Semester 1: 0616251 | Semester 2: 0616252 |  |
| SPANISH | Semester 1: 0616501 | Semester 2: 0616502 |  |

Prerequisite: " $C$ " average or above in other course work is recommended.
This course is not designed for native speakers of the language.

World Language Level 1 is designed to introduce students to the fundamentals of the target language. Emphasis is placed on acquisition of vocabulary and basic grammar through reading, writing, speaking, and listening. The study of people, culture, customs, and geography of the target-language countries is integrated throughout the course. This course is a prerequisite for Level 2 and, eventually, the AP World Language class in which students are encouraged to achieve the Seal of Biliteracy as goal and accomplishment.

| SPECIFY LANGUAGE: | LEVEL 2 - WORLD LANGUAGE (HuS) (BMT) (AC)-NCAA-approved | 1 Unit |  |
| :--- | :--- | :--- | :--- |
| FRENCH | Semester 1: 0616051 | Semester 2: 0616052 |  |
| GERMAN | Semester 1: 0616301 | Semester 2: 0616302 |  |
| SPANISH | Semester 1: 0616551 | Semester 2: 0616552 |  |

Prerequisite: "C" average or above in Level 1 is recommended. This course is not designed for native speakers of the language.

This course is designed for students who have already successfully completed Level 1, or equivalent, in middle school or high school. In this course, students will increase their knowledge of target-language vocabulary and grammar. Emphasis is placed on development of reading, writing, speaking, and listening skills. Students will apply these concepts in original verbal and written communication. This course is a prerequisite for Level 3 and, eventually, the AP World Language class in which students are strongly encouraged to achieve the Seal of Biliteracy as a culminating goal for their work and mastery of world languages.

Note: The Level 2 World Language French, German, and Spanish course may be offered in a Blended Learning Format at Francis Howell Central High School. Interested students should sign up for the Blended Learning section.

BL0616051 Semester 1
BL0616052 Semester 2
BL0616301 Semester 1
BL0616302 Semester 2
BL0616551 Semester 1
BL0616552 Semester 2

LEVEL 2 - WORLD LANGUAGE FRENCH
LEVEL 2 - WORLD LANGUAGE FRENCH
LEVEL 2 - WORLD LANGUAGE GERMAN
LEVEL 2 - WORLD LANGUAGE GERMAN
LEVEL 2 - WORLD LANGUAGE SPANISH
LEVEL 2 - WORLD LANGUAGE SPANISH

| SPECIFY LANGUAGE: | LEVEL 3 - HONORS WORLD LANGUAGE 3 (HuS) (BMT) (AC)-NCAA-approved | 1 Unit |
| :--- | :--- | :--- | :--- |
| FRENCH | Semester 1:0616101 | Semester 2: 0616102 |
| GERMAN | Semester 1: 0616351 | Semester 2: 0616352 |
| SPANISH | Semester 1: 0616601 | Semester 2: 0616502 |
|  |  | Prerequisite: "C" average or above in Level 2 is strongly recommended. |
|  | It is recommended that native speakers of the language begin at this |  |

In this Honors class, students continue to develop mastery of grammar, vocabulary, listening, reading skills, creative writing, and spontaneous speaking. Students are provided with opportunities to explore the cultures and geography of the various regions where the target language is spoken. Students may elect to receive 5 credit hours through the Advanced Credit Program at the University of Missouri - St. Louis, when available. This course is a prerequisite for Level 4 and, eventually, the AP World Language class in which students can work toward the culminating goal of achieving the Seal of Biliteracy.

Note: The Level 3 World Language French, German, and Spanish course may be offered in a Blended Learning Format at Francis Howell Central High School. Interested students should sign up for the Blended Learning section.

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\begin{array}{ll}
\text { BL0616101 Semester 1 } & \text { LEVEL 3-WORLD LANGUAGE FRENCH } \\
\text { BL0616102 Semester } 2 & \text { LEVEL 3 - WORLD LANGUAGE FRENCH } \\
\text { BL0616351 Semester 1 } & \text { LEVEL 3 - WORLD LANGUAGE GERMAN } \\
\text { BL0616352 Semester } 2 & \text { LEVEL 3 - WORLD LANGUAGE GERMAN } \\
\text { BL0616601 Semester 1 } & \text { LEVEL 3 - WORLD LANGUAGE SPANISH } \\
\text { BL0616602 Semester } 2 & \text { LEVEL 3 - WORLD LANGUAGE SPANISH }
\end{array}
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| SPECIFY LANGUAGE: | LEVEL $4-$ HONORS WORLD LANGUAGE 4 (HuS) (BMT) (AC)-NCAA-approved | 1 Unit |
| :--- | :--- | :--- | :--- |
| FRENCH | Semester 1: 0616151 | Semester 2: 0616152 |
| GERMAN | Semester 1: 0616401 | Semester 2: 0616402 |
| SPANISH | Semester 1: 0616651 | Semester 2: 0616652 |

Prerequisite: "C" average or above in Level 3 is strongly recommended.

In this Honors class, students continue to develop and perfect their ability to express themselves in original oral and written communication. Listening and reading selections are implemented to enhance understanding, appreciation and respect for speakers of the target language and their cultures. Communication within this course is done almost entirely in the target language as recommended by American Council on Teaching Foreign Languages. Students may elect to receive 5 credit hours through the Advanced Credit Program at the University of Missouri - St. Louis when available. This course is a prerequisite for the AP World Language Level 5 class and students are encouraged to achieve the Seal of Biliteracy as a culminating project and achievement within this course.

Note: The Level 4 Honors World Language French, German, and Spanish course may be offered in a Blended Learning Format at Francis Howell Central High School. The Honors World Language 4 French course may be offered in a Blended Learning Format at Francis Howell North High School. Interested students should sign up for the Blended Learning section.

> BL0616151 Semester 1
> BL0616152 Semester 2
> BL0616401 Semester 1
> BL0616402 Semester 2
> BL0616651 Semester 1

LEVEL 4 - WORLD LANGUAGE FRENCH
LEVEL 4 - WORLD LANGUAGE FRENCH
LEVEL 4 - WORLD LANGUAGE GERMAN
LEVEL 4 - WORLD LANGUAGE GERMAN
LEVEL 4 - WORLD LANGUAGE SPANISH
LEVEL 4 - WORLD LANGUAGE SPANISH

| SPECIFY LANGUAGE: | AP WORLD LANGUAGE \& CULTURE (HuS) (BMT) (AC)- NCAA-approved | 1 Unit |
| :--- | :--- | :--- |
| FRENCH | Semester 1:0616751 | Semester 2: 0616752 |
| GERMAN | Semester 1: 0616801 | Semester 2: 0616802 |
| SPANISH | Semester 1: 0616851 | Semester 2: 0616852 |
|  | Qualifies for the Honors Program |  |
|  | Prerequisite: "C" average or above in Level 3 is strongly recommended. |  |

In this Advanced Placement class, students continue to develop and perfect listening comprehension, speaking, reading, and writing skills as well as continue acquisition of cultural awareness and appreciation. Previous and new grammar concepts are presented through units of study, which may include immersion activities, readings in contemporary and classical literature, history, art, music, geography, and essay writing. Focus is placed on preparing students to take the Advanced Placement exam in the spring if they choose to do so. Communication within this course is done almost entirely in the target language as recommended by American Council of Teaching Foreign Languages. Students may also elect to receive 3 credit hours through the Advanced Credit Program at the University of Missouri - St. Louis, when available. All students enrolled in this course are encouraged to achieve the Seal of Biliteracy as a final accomplishment and achievement within the area of World Languages.

Note: AP World Language French, German, and Spanish course may be offered in a Blended Learning Format at Francis Howell Central High School. AP World Language 4 French course may be offered in a Blended Learning Format at Francis Howell North High School. Interested students should sign up for the Blended Learning section.

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\begin{array}{ll}
\text { BL0616751 Semester } 1 & \text { AP WORLD LANGUAGE \& CULTURE FRENCH } \\
\text { BL0616752 Semester } 2 & \text { AP WORLD LANGUAGE \& CULTURE FRENCH } \\
\text { BL0616851 Semester 1 } & \text { AP WORLD LANGUAGE \& CULTURE SPANISH } \\
\text { BL0616852 Semester } 2 & \text { AP WORLD LANGUAGE \& CULTURE SPANISH } \\
\text { BL0616801 Semester 1 } & \text { AP WORLD LANGUAGE \& CULTURE GERMAN } \\
\text { BL0616805 Semester } 2 & \text { AP WORLD LANGUAGE \& CULTURE GERMAN }
\end{array}
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| Semester 1 | Semester 2 | TRANSITION SKILLS |
| :---: | :---: | :---: |
| 3022601 | 3022602 | Prerequisite: Special Education Placement |
| 2622601 | 2622602 | Note: Students do not select this class during registration. Students |
| 2822601 | 2822602 | will work with case managers \& counselors to schedule this course. |

This course is designed to aid special education students in grades 11-12 in achieving successful post-secondary outcomes and create lifelong learners. Students will develop an awareness of career, educational and independent living skills to assist them in employment, education and personal goals. Students will be taught self-awareness, career research, and exploration of post-secondary educational/training options, rights and responsibilities, test taking strategies, basic living skills and financial responsibility. This class would benefit students entering the work force after high school.

| Semester 1 | Semester 2 | S.T.U.D.I.E.S. (Strategies and Techniques for Understanding, | .5-1 Unit |
| :---: | :---: | :---: | :---: |
| 2622211 | 2622212 | Developing Independent, and Effective Students) |  |
| 2922211 | 2922212 | Prerequisite: Special Education Placement |  |
|  |  | Note: Students do not select this class during registration. Students |  |

This course is designed to teach students with disabilities in 9th grade to adjust to the new high school environment and to become independent learners as well as teach students skills needed to succeed in the general education setting. Areas of emphasis include: transition to high school, study skills and personal skills.

| Semester 1 | Semester 2 | S.T.U.D.I.E.S. II (Strategies and Techniques for Understanding, | .5-1 Unit |
| :---: | :---: | :---: | :---: |
| 2622221 | 2622222 | Developing Independent, and Effective Students) |  |
| 2922221 | 2922222 | Prerequisite: Special Education Placement Note: Students do not select this class during registration. Students will work with case managers \& counselors to schedule this course. |  |

This course is designed to teach students with disabilities in 10th grade students to adjust to more demands as a young adult and to become more independent learners. This course also teaches students the skills needed to succeed in the general education and community setting, such as employment/dating. Areas of emphasis include: transition to high school and the community, study skills, and personal skills.

| Semester 1 | Semester 2 | S.T.U.D.I.E.S. III (Strategies and Techniques for Understanding, | .5-1 Unit |
| :---: | :---: | :---: | :---: |
| 2622231 | 2622232 | Developing Independent, and Effective Students) |  |
| 2922231 | 2922232 | Prerequisite: Special Education Placement |  |
|  |  | Note: Students do not select this class during registration. Students will work with case managers \& counselors to schedule this course. |  |

This course is designed to teach students with disabilities in $11^{\text {th }}$ or $12^{\text {th }}$ grade to self-advocate and to become independent learners as well as teach students skills needed to succeed in the post-secondary setting. Areas of emphasis include: transition to post-secondary, study skills and personal skills, such as setting long and short term goals, self-advocacy, and self-determination.

| Semester 1 | Semester 2 | WORK EXPERIENCE FIELD WORK | .5-1 Unit |
| :---: | :---: | :---: | :---: |
| 2628001 | 2628002 | Prerequisite: Special Education Placement and Vocational |  |
| 3028001 | 3028002 | Rehabilitation acceptance |  |
|  |  | Note: Students do not select this class during registration. Students will work with case managers \& counselors to schedule this course. |  |

This course works in conjunction with all special education programs. The course is intended to allow students involved in special services programs to receive academic credit while actively participating in work experience. The program will encourage students to gain vocational experience while offering each participant direction in the development of realistic vocational goals that will result in successful integration into the working community upon graduation. Students may earn up to 2 credits per academic school year.

## 2628303

COLLEGE 101 - ORIENTATION TO COLLEGE
. 5 Unit
Prerequisite: Special Education Placement, Grade 12 and teacher recommendation

Orientation to College has been designed to assist students with transition to college life. Specifically, the class will examine the transitions that take place and develop the strategies to cope with them. This course will focus upon group building and creating a "belonging place" for new students. Through a variety of in class and home exercises, students will be encouraged to explore values, goals, and self-determination skills. Students will be directed to key support services and college resources to enhance the quality of the college experience.


Lewis \& Clark Career Center

## Course Enrollment Guide

## Lewis \& Clark Career Center Course Clusters

| Advanced Manufacturing <br> - Precision Manufacturing Technology <br> - Welding | Construction Trades <br> - Brick \& Stone Masonry <br> - Building Trades <br> - Electrical Trades <br> - Heating, Ventilation, \& Air Conditioning (HVAC) |
| :---: | :---: |
| Automotive \& Mechanical Technology <br> - Auto Collision Repair <br> - Auto Service Technology <br> - Power EquipmentTechnology | Education <br> - Early Childhood Career |
| Information Technology <br> - Computer Maintenance and Networking <br> - Computer Software Development 1 \& 2 | Health Sciences <br> - Dental Assisting <br> - Health/Health Related Occupations |
| Hospitality <br> - Applied Retail \& Business Skills | Law Enforcement <br> - Law and Public Safety |

## ADVANCED MANUFACTURING

1717541 Year 1 1717542 Year 1 1717531 Year 2 1717532 Year 2

PRECISION MANUFACTURING TECHNOLOGY (IET)
1 or 2 year program; 3 electives Junior year and 3 electives Senior year Prerequisite: C or better in Algebra I
(solid understanding of fractions and decimals is important)

The goal of this program is to supply the industry with a highly qualified workforce by graduating exceptional students that are highly motivated and skilled in the needs and requirements expected by the manufacturing community. Students will learn machine safety, blueprint reading, mechanical design, utilization of conventional machine techniques and Computer Numerical Controlled (CNC) programming.

The course will cover the following areas: Safety and OSHA, Blueprint Reading, Basic Mechanical Design, Machining Safety, Manufacturing Processes, Semi Precision Measurement, Precision Measurement, Layout, Metallurgy and Heat Treat, Manufacturing Processes, Drill Press, Conventional Engine Lathe, Conventional Vertical Mill, Surface Grinder, Introduction to Computer Numerical Control Systems and Programming.

In order to enroll in the second year of PMT, students may need to show exemplary machining and employability skills and be invited to participate in an approved Department of Labor Apprenticeship USA internship with a local manufacturing company.

## WELDING (IET)

2 year program; 3 electives Junior year and 3 electives Senior year Prerequisite: Asthma Free

Welding is the most common method for permanently bonding metal parts. Due to its strength, welding is used to join beams and reinforcing rods. Students will design, engineer, build, and troubleshoot complex metal fabrication challenges. Program emphasis is on semi-automatic processes, shielded metal arc welding, gas tungsten arc welding, and structural welding. Students will also learn new welding developments such as microprocessor-based technology and exotic metal types.

Welding can be physically demanding and requires long periods of standing and the ability to lift 50 pounds. Welders must have arm/hand steadiness and good manual dexterity. For success in this career, you should also have problem solving skills, the ability to follow directions, and high school level math and reading skills.

## AUTOMOTIVE \& MECHANICAL TECHNOLOGY

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1717001 Year 1
1717002 Year 1
1717011 Year 2
1717012 Year 2
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AUTO COLLISION REPAIR (IET)<br>2 year program; 3 electives Junior year and 3 electives Senior year Prerequisite: None

The Auto Collison Repair Program focuses on the repair and appearance of the interior and exterior of vehicles. Students will learn how to assess, estimate, and repair using modern welding, sanding, masking, and painting techniques, and the same advanced equipment found in professional auto collision repair companies. Students can earn I-CAR certifications, the industry standard for the auto collision repair business.

In year one pf the two-year program, students will learn non-structural repair methods. These include MIG welding, straightening and aligning sheet metal, applying and shaping plastic fillers, plastic panel identification, and plastic repair methods. The other year will concentrate on painting and refinishing. Students will learn proper paint preparation procedures, masking techniques and detailing cars. Primer, sealer and base coat/clear coat application will be covered along with paint defect identification and repair. Proper spray gun technique will be taught and practiced with lots of hands-on spraying of primers, paints, and clears.

1717051 Year 1
1717052 Year 1 1717061 Year 2 1717062 Year 2

## AUTO SERVICE TECHNOLOGY (IET)

2 year program; 3 electives Junior year and 3 electives Senior year Prerequisite: None

This course is open to individuals who have an interest in auto service trades in terms of a career goal. It is recommended that students have credit in general shop, general metals course and basic computer skills. Automotive instruction at Lewis \& Clark consists of a two-year program that provides the student with the basic theory and skills needed to become an entry level automotive technician and service today's automobiles. Classroom instruction is followed by shop activities related to the lecture. Customer cars are repaired in the same manner as in the professional shop under the instructor's supervision. Students will gain experience in shop management by writing repair orders, ordering parts, issuing supplies and tools used in the trade.

This course is ASE (Automotive Service Excellence) certified by NATEF (National Automotive Technician Education Foundation). Both NATEF and ASE are nationally recognized and provide certification for shops and technicians across the country. Both instructors for the course are ASE Master Certified Technicians.

Areas of instruction include: General Maintenance Engine Repair, Brakes, Steering and Suspension, Heating/Air Conditioning, Electrical/Electronics, Engine Performance, Manual/Automatic Transmission. Instructional time is (approximately) 50\% class and 50\% lab.

# POWER EQUIPMENT TECHNOLOGY (IET) 

1 or 2 year program; 3 electives per year
Prerequisite: None

This program prepares juniors and/or seniors to diagnose and repair two- and four-cycle engines on equipment such as lawnmowers, chainsaws, rototillers, edgers and trimmers. Power equipment instruction ranges from home-use equipment to commercial equipment.

Students will learn to adjust, clean, lubricate and when necessary replace worn or defective parts such as spark plugs, ignition parts, valves and carburetors. Other skills taught include engine replacement, deck repair, blade balancing, bland and chain sharpening, fuel injection, and electrical repair. Troubleshooting and problem solving on all types of equipment are stressed.

Good reading skills are required, as students will need to be able to refer to service manuals for detailed directions.

## INFORMATION TECHNOLOGY COURSES

## 1717351 Year 1 1717352 Year 1

COMPUTER MAINTENANCE \& NETWORKING (IET) (BMT)
1 year program; 3 electives Junior year OR 3 electives Senior year Prerequisite: None

Computer maintenance and networking provides a strong background in computer hardware, network security, and operating systems. Completion of this class provides excellent opportunities for entry-level IT employment. Students will learn basic computer networking skills, how to install, configure, and troubleshoot computer operating systems, computer hardware, motherboards, memory, video hard drives, and application software on a variety of stand-alone and networked computers. All students have the opportunity to take the two-part exam in order to be CompTIA A+ and certified.

1717331 Year 1
1717332 Year 1
1717341 Year 2
1717342 Year 2
The Computer Software Development program is a great fit for the analytical student who has a love for computers. Computer programmers use logic and reasoning to identify complex problems and create innovative solutions. Projected occupational demand is high, and the pay is very good.

## Year A:

Emphasis will be on software development, where the Linux operating system will be utilized. Students will learn how to write and edit source code using programming languages including Java and Python and will design, create, and maintain PC software.

## Year B:

Students will concentrate on web development including Relational Database Design, SQL, HTML, CSS, and JavaScript. In both years, students will select a year-long project of their choice in nearly any area of computer science.

## CONSTRUCTION TRADES

## 1717701 Year 1 <br> 1717702 Year 1 <br> 1717711 Year 2 <br> 1717712 Year 2

BRICK \& STONE MASONRY (IET) (AC)<br>2 year program; 3 electives Junior year and 3 electives Senior year<br>Prerequisite: None

This program is designed to prepare students for apprenticeship or entry-level jobs in masonry construction. Students will learn to lay brick and block in various bond patterns used in commercial and residential construction. The course will include construction techniques for building fireplaces and chimneys, arches, special wall openings, double width and reinforced masonry, wall anchoring systems, flashings and prevention of water penetration and masonry paving. Students will also gain knowledge of various types of stone construction,tuck-pointing and will also earn an OSHA 10 certification.

Students must be able to work at heights on scaffolds, lift and handle heavy materials, work in group situations as a team member, follow instructions and accomplish all tasks in an accurate and safe manner.

## 1717101 Year 1 <br> 1717102 Year 1 1717111 Year 2

BUILDING TRADES (IET) (AC)
2 year program; 3 electives Junior year OR 3 electives Senior year
Prerequisite: None

This course is open to juniors who show an interest and aptitude in the field of construction as a wage earning occupation. It is recommended that students have one year of industrial arts. Students earn an OSHA 10 card and the opportunity to pursue working on the ACT WorkKeys, an exam required by the Carpenters' Union.

Students are familiarized with entry level skills for the major trades involved in residential constructions such as carpentry, siding, interior trim, drywall hanging, roofing, concrete work and landscaping.

Most of the program involves the actual building of a house in Lewis \& Clark Career Center's own subdivision. Students not only gain experience in home construction, but will also learn about subdivision construction. Houses are sold upon completion.

1717651 Year 1
1717652 Year 1
1717661 Year 2
1717662 Year 2

## ELECTRICAL TRADES (IET)

2 year program; 3 electives Junior year and 3 electives Senior year
Prerequisite: Algebra I with a " $C$ " or higher; or proficient on the Algebra I EOC

Students will learn basic electrical theory including, parallel and series circuits, how to apply Ohm's Law, and installation of single-phase transformers. This course will teach students to identify, install, and troubleshoot electrical wiring and associated devices that are commonly used in both residential and commercial environments. Upon completion of the course, students will be able to read and interpret electrical prints and participate in the wiring of a new house. They will also learn how to wire single-pole, three-way, and four-way switches; receptacles, lighting, ground fault circuit interrupters, arc fault circuit interrupters, and breakers. Students will be introduced to the National Electrical Code and how it applies to different types of wiring methods and will learn to hand bend electrical metallic tubing. Students will learn about OSHA and lockout tagout methods for working on or near electrical equipment. Students will also learn how to troubleshoot basic control circuits using multimeter and ladder diagrams.

Interested students must be physically fit and capable of working under adverse weather conditions, as they will be working on a Lewis \& Clark student-built house. Students will construct real circuits, so the ability to abide by strict safety rules is extremely important. An aptitude for math in general and algebra, in particular, is required as is an aptitude to read and produce technical documents and drawings.

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1717551 Year 1
1717552 Year 1
1717561 Year 2
1717562 Year 2
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HVAC students will learn to design, install, repair, and maintain residential and commercial refrigeration and heating/air conditioning systems. They will also learn duct systems fabrication, blueprint reading, electrical schematics, and operational sequence charts as they progress toward certification. Students will also get the opportunity to install ductwork, a furnace, and an air conditioning unit at the Lewis \& Clark student-built house.

Applicants should have a good mechanical aptitude and be able to understand both written and verbal instructions and should be in good physical condition and free from respiratory problems.

## EDUCATION

## Preschool \& Elementary Careers

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1717631 Year 1
1717632 Year 1
1717641 Year 2
1717642 Year 2
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## EARLY CHILDHOOD CAREERS (HuS)

1 or 2 year program (Completion of 2 years for CDA eligibility)
3 electives per year (2 years is needed)
Prerequisite: Prior Child Development course recommended

This course will prepare students for entry level employment in the field of early childhood education, while providing the foundations for study in higher education programs that lead to certification in early childhood or elementary education. Students will gain the leadership, employment, and communication skills necessary for success in Early Childhood Careers. Over the course of the program, students will explore career opportunities and identify personal traits needed for success in careers working with young children. They will be given opportunities to work directly with children ranging in age from birth to age 8 in various childcare and elementary school settings. Students will earn certification in infant, child, and adult First Aid/CPR. In addition, students will earn Missouri state certificates for up to 5 professional development hours.

Students completing this program will be able to describe typical child development, demonstrate knowledge of creating safe and healthy learning environments, and be competent in lesson planning and implementation. Students will practice appropriate behavior management techniques, and will learn about nutritional guidelines, state licensing expectations, and the legal and ethical responsibilities of childcare workers and/or classroom teachers. Students who have met all requirements and attended two years of the program will be eligible to test for the CDA (Child Development Associate) credential upon graduation.

## HEALTH SCIENCES

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1717471 Year 1
1717472 Year 1
1717481 Year 2
1717482 Year 2
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## DENTAL ASSISTING (HeS) (HuS)

1 or 2 year program; 3 electives per year
Prerequisite: It is recommended that students have earned at least a " C " or higher in Biology and have strong study habits as this course is intense in its preparation for clinical rotations. Successful students possess a strong work ethic and an interest in science and medicine.

Dental Assisting will immerse students into a clinical experience in both the classroom and through rotations available during their junior and/or senior year. Our instruction will include real world tools and equipment, which allow students to conduct mock exams and perform X-rays, preventative and restorative practices, and emergency care. Students that successfully complete this course will be industry work ready.

Students will be able to assist chair-side during operative and specialty procedures, explore develop, and mount $x$ rays, prepare and mix a variety of basic dental restorative materials, and identify and use basic types of dental and lab equipment including dental instruments.

## 1717401 Year 1 1717402 Year 1

## HEALTH \& HEALTH RELATED OCCUPATIONS (HO/HRO) (HeS)

1 year program; 3 electives Junior year and 3 electives Senior year Prerequisite: It is recommended that students have earned at least a "C" or higher in Biology and have strong study habits as this course is intense in its preparation for clinical rotations. Successful students possess a strong work ethic and an interest in science and medicine.

The Health/Health Related Occupations courses offer learning experiences for juniors and seniors in high school designed to create or further stimulate their interest in the many career opportunities available in the health field. This course is designed to be challenging and meet the needs of all learning styles. The student will learn beginning skills and the basic procedures needed for an entry-level job and a sound basis for continuing their education in the medical field.

The first semester involves classroom theory, demonstrations and practice. During the second semester, students begin to draw upon previously acquired knowledge and basic skills by applying them to various health services through supervised clinical observations and on the job training hours.

Students must have an up to date immunization record, a TB test, a negative urine drug screen, a flu vaccine, must register on the Family Safety Registry, and maintain a $75 \%$ average and $90 \%$ attendance to remain in the program and be placed in clinical rotations. Students are placed in clinical rotations Monday through Thursday and continue classroom work on Fridays.

## HOSPITALITY

1717601 Year 1 1717602 Year 1 1717611 Year 2 1717612 Year 2

## APPLIED RETAIL AND BUSINESS SKILLS (ARBS)

(HuS) (BMT)
1 or 2 year program; 3 electives Junior year OR 3 electives Senior year Prerequisite: Ability to work in competitive environment

This course is designed for juniors or seniors with special needs who have an interest in the retail industry. A prerequisite for the course is potential ability to work in competitive employment. The program provides an active, hands-on, multimedia approach that emphasizes instructional strategies that are successful with special needs populations. The students take "ownership" of and operate a fully functional store on the Lewis \& Clark campus. The students in the Applied Retail \& Business Skills program rotate through the following stations at JC's, the school store: cashier, inventory control, maintenance, food preparation, and food manager. The classroom instruction includes lessons to inform and enhance training and skills learned through operations. Also included are lessons on self-awareness, social skills, communication skills, and employability skills.

Second-year students have the opportunity to work in an internship in local school cafeteria kitchens, and other community placements.

## LAW ENFORCEMENT

## 1717801 Year 1 <br> 1717802 Year 1 <br> 1717811 Year 2 <br> 1717812 Year 2

The Law Enforcement program focuses on the core principles of criminal justice, the basic knowledge, skills and standards taught at Missouri Peace Officers Standards and Training Program (POST) Certified Police Academies. Professionalism, character, and integrity is embedded into this program and serve as a foundation for every participant. The program also includes a strong emphasis on communication (verbal, non-verbal, and written) and teamwork.

This course will include many opportunities for students to connect classroom experiences through practical application. Students will be involved with investigation techniques, law enforcement procedures and protocols, and courtroom etiquette.

Physical training is a part of the Law Enforcement curriculum. Students should be able to: perform basic physical exercises and be generally physically fit; tolerate the loud sounds associated with law enforcement, such as sirens, bangs, and yelling/vocalizations; climb, lift, bend and handle taxing physical activity; tolerate an environment including high places, small spaces, extreme temperatures, and dirty environments. A physical examination by a medical professional (such as a family physician) will be required for students enrolling in the law enforcement program.

Uniforms will be worn on "professional dress days" determined by the instructor.Credit Recovery \& Credit Advancement

## High School Credit Recovery

High School students have the opportunity to recover 1 full credit (two 0.5 credits) in the summer Credit Recovery program. Students enroll based on credit recovery needs. Students attend 10 days for 6 hours per day to recover each 0.5 credit course. Summer program offerings are approved each year by the Board of Education and enrollment begins in February during individual registration. Course offerings are dependent on student enrollment numbers.

Courses historically offered as Credit Recovery include:

| Algebra I | Algebra II | Intermediate Algebra | Physical Science |
| :--- | :--- | :--- | :--- |
| American Government | Biology | English I | English II |
| English III | Geometry | Health |  |
| Modern World History | Personal Finance | Introduction to Fitness <br> (formerly Personal Lifetime <br> Fitness) |  |
| US History | Credit Recovery Program | MO Options |  |

Schools will advertise summer program offerings through school and district eNews as well as the district summer school website.

Sessions usually run during the month of June and end before the July $4^{\text {th }}$ holiday. For additional High School Summer Credit Recovery information, please contact a high school Counselor's office, email the district summer school administrator at FHSDsummerschool@fhsdschools.org, or call (636) 851-4012.

## High School Credit Advancement

High School students have the opportunity to earn 1 full credit (two 0.5 credits) in the summer Credit Advancement program. Students enroll from the list of courses offered. Students attend 20 days for 3 hours per day to earn each 0.5 credit course. To earn 1 full credit, a student would attend 20 days for 6 hours per day. Summer program offerings are approved each year by the Board of Education and enrollment begins in early May. Course offerings are dependent on student enrollment numbers.

Courses offered as Credit Advancement include:

| HIGH SCHOOL CREDIT ADVANCEMENT COURSE OFFERINGS |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
| Class Title | In Person June | Virtual June | Virtual July | Grade Level |
| Personal Finance |  | X | X | $11-12$ |
| Health |  | X | X | $9-12$ |
| Introduction to Fitness (formerly <br> Personal Lifetime Fitness) | X |  | X | $9-12$ |
| ACT Prep | X |  | X | $9-12$ |
| Introduction to Weightlifting | X |  |  | $10-12$ |
| Team Sports | X |  |  | $10-12$ |
| Introduction to Computer Applications | X |  |  | $9-12$ |

In-person sessions run during the month of June and end before the July $4^{\text {th }}$ holiday. A small number of virtual offerings are available in June and July. For additional High School Summer Credit Advancement information, please contact a high school Counselor's office, email the district summer school administrator at FHSDsummerschool@fhsdschools.org, or call (636) 851-4012.


[^0]:    *Students can qualify for the National Merit Scholarship during their junior year only.

[^1]:    *This course many be taken in multiple years for elective credit with instructor approval.
    **Indicates a course sequence that will prepare a student for success on the ACT

