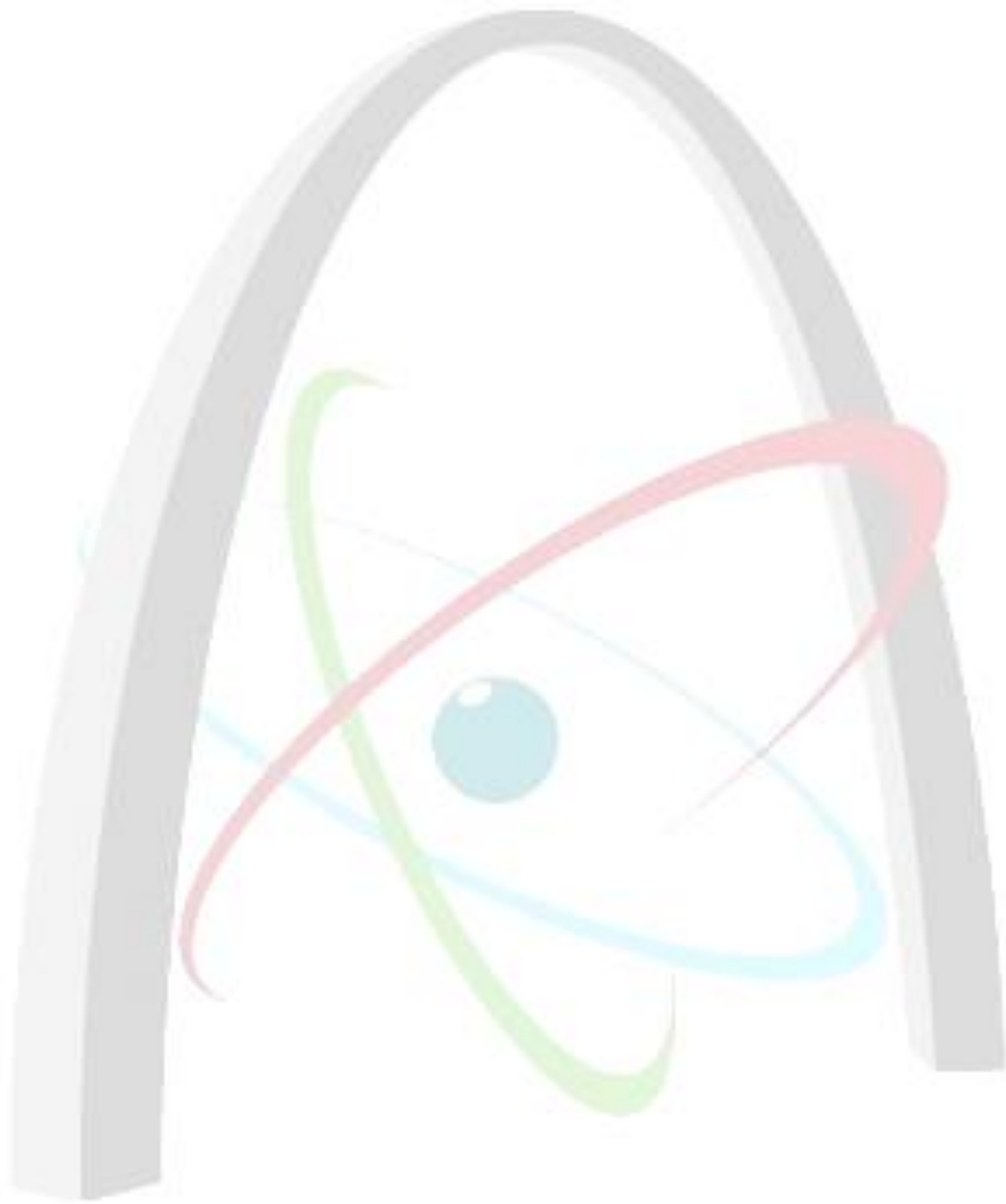


GATEWAY SCIENCE ACADEMY
of
ST. LOUIS

ACADEMIC PLANNING GUIDE

5049 Fyler Avenue Saint Louis MO 63139



Mission & Vision

The mission of Gateway Science Academy of St. Louis (GSA) is to provide quality education with an emphasis on science, mathematics, and technology while balancing all core subjects. We strive to create an atmosphere that provides students, parents, and teachers with opportunities for continuous growth, enabling them to reach their highest potential.



Core Values

GSA promotes six core values to guide its interactions with all members of the school community:

- Respect – All members of the school community (students, parents, and staff) have equal worth and should be treated with respect.
- Responsibility – All people have choices teachers, parents, and students should be responsible for their actions.
- Integrity – Belonging to a community requires a commitment to the common good. The community is stronger when everyone can be counted upon to be honest and trustworthy.
- Courage – Having the courage to try new things expands minds and causes students, parents, and staff to reach beyond their own expectations.
- Curiosity – The ability to wonder and to create connections stimulates further learning. Inquiry will be fostered on the part of parents, staff, and students.
- Effort – Success is accomplished when students, family, and staff are willing to do what it takes to accomplish their vision of the future.

Letter from GSA Administration

Dear Students and Parents,

Today, students and parents who live within the city of St. Louis have the power to choose a public high school. With that choice comes responsibility and opportunity: the responsibility to determine the best fit for you and your family, and the opportunity to select the best path for a successful future. We believe GSA's high school program is the right choice on both accounts. As you weigh your options, please take the time to learn what makes us different and discover how our curriculum and culture will prepare you to succeed in college, career, and life. Remember, GSA is not a school for the gifted. Anyone is eligible to apply, regardless of race, socioeconomic status, or past school performance. That's the beauty: We don't choose our students— you choose us!

High Expectations. We believe all students should have the opportunity to attend and succeed at a four-year college. Our goal is 100 percent college acceptance, and students at the nearly 30 other charter schools managed by Concept Schools (GSA's management company) have achieved that objective three years in a row.

Rigorous, College-Prep Curriculum. A focus on science, technology, engineering, and math (STEM), combined with innovative teaching methods and academic support programs, ensures you're ready to succeed in the college of your choice.

Personal Attention. A graduating class of just 60 students means smaller class sizes, more one-on-one attention, and greater opportunities to get involved in classes, clubs, activities, and sports. Our extended school day and year provide more time to acquire the skills necessary to succeed in college. Research shows an extended school day consistently improves student performance—and it's a feature most common in successful charter schools.

Respect for Diversity. Our core values include responsibility, integrity, effort, courage, curiosity, and respect—respect for diverse cultures and for one another. Together, our students, teachers, parents, and administrators form a positive, dedicated team committed to results.

Academic achievement, leadership development, and college acceptance are the cornerstones of GSA's high school program, as we strive to give every student the tools to realize your talents, achieve your goals, and fulfill your dreams.

Sincerely,
Administration
Gateway Science Academy

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Graduation Requirements

To prepare students to meet top colleges' entrance requirements, GSA's graduation requirements exceed those of traditional Missouri public high schools and include:

- Minimum of 28 credits of coursework
- 50 hours of community service (for A+ program students it must be 50 hours of mentoring)
- Must pass US Constitution and Missouri Constitution exams.
- Senior thesis project
- Must take the following tests: EOC Algebra I or EOC Algebra II, EOC English II, EOC Biology, EOC Government

Graduation Credit Requirements

Gateway Science Academy of St. Louis High School Graduation Requirements	Credits Required
English Language Arts English I-II-III-IV or Pre AP English, AP Language, AP Literature, Process of College Composition, Advanced Strategies of Rhetoric and Research	4 Credits
Mathematics Algebra IA, Algebra IB, Algebra I, Geometry, Intermediate Algebra, Algebra II, College Algebra, Intermediate College Algebra, Pre-Calculus, AP Calculus, AP Statistics	4 Credits
Science Chemistry, Biology, Physics, Life Science, Genetics and Evolution, Earth and Space Science, Intro. To Engineering, Human Anatomy and Physiology, AP Physics, AP Biology	4 Credits
Social Studies World History and Geography, US History (or AP US History), US Government (or AP Government), P. Finance (0.5)	3.5 Credits
Health Health Education	0.5 Credit
Physical Education Physical Education or Personal Fitness	1 Credit
Fine Arts 2D Drawing and Painting, Intro. to Sculpture, AP Studio Art, Band, Orchestra, Advanced Music courses, Modern Music Appreciation, Music Appreciation,	1 Credit
Computer/Technology Microsoft Office, Intro to Coding	1 Credit
Foreign Language (if GPA is higher than 2.5) Spanish I-II-III, and AP Spanish	2 Credits
Electives AP Psychology, AP Seminar, AP Research, Reading and Writing Workshop, Fundamentals of English II, Algebra I Lab, Math Lab, College Readiness Math, College Readiness English, College Readiness Science, Public Speaking, Current Events, Psychology, World Religions, or College Career and Composition (required for seniors)	7 Credits

GSA Grading Scale

GRADE	PERCENTAGE	REGULAR, Unweighted Scale	AP/DC/DE, Weighted Scale
A+	98-100	4.00	5.00
A	93-97	4.00	5.00
A-	90-92	3.67	4.67
B+	87-89	3.33	4.33
B	83-86	3.00	4.00
B-	80-82	2.67	3.67
C+	77-79	2.33	3.33
C	73-76	2.00	3.00
C-	70-72	1.67	2.67
D+	67-69	1.33	2.33
D	64-66	1.00	2.00
D-	60-63	1.00	2.00
F	0-59	0.00	0.00

GSA WEIGHTED GRADES

Weighted grade points give more weight to honors, advanced placement (AP) and dual credit courses. Weighted grade points are the numeric equivalent of a student's grade in a credit-bearing course according to the above scale. Both weighted and unweighted GPA's are reported on all report cards and transcripts. The following courses will be weighted if the student earns a C or above: Advanced Placement courses, college credit courses, honors courses.

ACADEMIC PROGRAMS

Graduation with Honors

Students who achieve a final cumulative grade point average of 3.5 or higher will graduate with "Honors". Honors designations are noted on both the diplomas and graduation programs.

Grading System

GSA High School uses a four-point grading system. Grades of A, B, C, D, and F. All classes are included in grade point average.

Grades of F receives no credit. A student who receives an F in a required subject must repeat and pass that course to fulfill graduation requirements.

If a student chooses to re-take a course at GSA in which the student has previously earned a D+ or lower, the new grade is calculated into the student's GPA. The original grade stays in the student's transcript but is not calculated into the student's GPA. If a student wishes to re-take a course in which the student has earned a C- or better, special permission must be granted by the principal to replace the C- or better with a new grade. It is the student's responsibility to complete the appropriate form to initiate the grade change.

Grade Promotion Policy

- **Ninth Grade Promotion**

To be promoted from ninth to tenth grade, students must pass at least two of the core subject courses (Math, Science, English and Social Studies) and must have successfully completed a minimum of five units of credit.

- **Tenth Grade Promotion**

To be promoted from tenth to eleventh grade, students must accumulate a total of six core subject credits (Math, Science, English and Social Studies) and must have successfully completed a minimum of 12 units of credit.

- **Eleventh Grade Promotion**

To be promoted from eleventh to twelfth grade, students must accumulate a total of ten core subject credits (Math, Science, English and Social Studies) and must have successfully completed a minimum of 20 units of credit.

- **Graduation**

Minimum of 28 credits of coursework; 50 hours of community service (for A+ program students it must be 50 hours of mentoring); must pass US Constitution and Missouri Constitution exams; must complete senior thesis project; must take the following tests: EOC Algebra I or EOC Algebra II, EOC English II, EOC Biology, EOC Government.

Semester Exams

Students take semester exams, the midterms and finals, at the end of each semester. The following formula is used to determine final course grades at the end of the year: 40% 1st semester grade+10% 1st mid-term exam + 40% 2nd semester grade+10% 2nd semester exam or EOC results from core subjects.

Course Designations and Academic Pathways:

Students should select courses appropriate to their ability and performance, as well as to their immediate and future goals. The best guidelines for course selection are teacher recommendations, demonstrated achievement, and standardized test scores. Course designations are based on the level of challenge provided by the course content.

- **Standards:** This designation indicates placement only courses that are designed to prepare students for the EOC, ACT/SAT, and entry into college and the workplace.
- **Honors:** This designation indicates courses that are designed to prepare students for the EOC, ACT/SAT and entry into college and the workplace with additional application, such as synthesis and critical evaluation of knowledge. Students must take responsibility for their own learning. All Honors courses receive weighted grades.
- **Advanced Placement (AP)/Dual Credit (DC):** AP is a program in which high school students may complete college-level studies while they are still in secondary school. These are challenging courses which require more work, give greater opportunity for individual progress and accomplishments, and go into greater depth than the comparable high school course. The student must be willing to devote more time to the research of facts and the techniques of writing. Each year in May, sophomore, junior, and senior students may take the Advanced Placement Examinations. Each examination is approximately three hours in length. Final grades, based on the student's entire examination of free response and multiple-choice questions, are reported on a five-point scale:

5=extremely qualified 4=well-qualified 3=qualified 2=possibly qualified 1=no recommendation Participating colleges may honor grades and grant credit in college courses for a 3 or higher on the AP exams. The examination fee is the responsibility of the student and is nonrefundable. GSA will not offer Advanced Placement exams for courses that are not taught in the regular curriculum at the high school.

- **RTI Program:** Response to Intervention is a multi-tier approach to the early identification and support of students with academic needs. Early in the year, GSA will administer a diagnostic test to determine the students' need in reading and math. Targeted teaching — called interventions — will be provided to help struggling students. Here will be Tier I, Tier II and Tier III.
- **Special Education Service:** It provides specially designed instruction that meets the unique needs of a child with a disability. What this means is that the GSA special education department develop an educational program that is specific to the child's needs= Individualized Education plan (IEP).
- **English Language Learners (ELL) Service:** ELL student is anyone who does not learn English as their first and primary language. GSA ELL service provides support to ELL students to help them improve their social and academic language. The ELL teacher and classroom teacher work collaboratively to develop an instructional program that will be most beneficial to meet the language and academic needs of each student.

Credit Recovery

Gateway Science Academy will only accept the summer school online credits from approved institutions. GSA will accept credit from The Missouri Course Access and Virtual School Program (MOCAP), St. Louis Public Schools and Edgenuity courses. Please see the school guidance counselor for more information. GSA will not pay for any cost associated with credit recovery.

Summer School

GSA had its first summer school during the summer of 2021 to give students a chance to recover course credits if their grades were affected due to the pandemic. It is still undetermined if GSA will have summer school again in summer of 2022, however, students still do have the opportunity for course recovery by taking courses through Edgenuity, an online platform.

Teaching Strategies:

Rather than adhering to a single teaching philosophy or instructional model, our teaching strategies draw on best practices from the field. GSA teachers use a unique mix of data- driven, research-based techniques, including:

- Differentiated instruction
- Problem-based learning
- Project-based learning
- Collaborative learning

GSA teachers have the flexibility to adapt their teaching strategies to meet students' needs. Plus, they work to integrate technology into the classroom not just to enhance, but to transform learning.

Advanced Study Teams:

Specifically designed for students who are performing at higher levels and need more advanced academic activities, our study teams participate in local, regional, or state competitions—such as a science project team that competes in local and state science fairs. GSA advanced study teams include:

- Robotics Team
- Science Project Team
- Math Team

Student Support:

At GSA, we don't let struggling students fall through the cracks. We continuously monitor grades and standardized test scores and conduct interim assessments, then offer these support programs to students who need extra help:

After-school tutoring: Students with failing grades in any subject must stay after school or come in before classes begin to receive additional help from their teachers. This mandatory tutoring continues until students raise their grades.

Saturday school: Students who need significant assistance to achieve the required levels of success in major subjects and ACT/AP testing may attend school for half-days on Saturdays to work with teachers on fundamental skills.

Pull-out programs: Some GSA students may be pulled out of special classes to receive one-on-one instruction from teachers or tutors from our partner organizations.

College Preparation Programs:

Preparing every student to succeed in a four-year college is at the center of GSA's high school academic program. Parents, and our teachers and college guidance counselors are all involved in helping students achieve that goal from Freshman to Senior year.

College Guidance System:

Work toward college acceptance begins the moment students walk in the door Freshman year. Our full-time college counselor will introduce them to the college experience and application process right away, then work with them over the next four years to help them reach their college goals. They will follow a checklist like the one on the next page to make sure they stay on track throughout high school.

Freshman Year

- Consider attending a summer program—camps, courses, or college activities for high school students like Upward Bound. Ask your counselor about available opportunities.
- Remember that your grades become part of your permanent record and play a key role in successful college applications.
- Prepare a science fair project if you're planning to be a science major in college.
- Read as much as you can. It will give you new ideas, make you a better thinker, and improve your vocabulary.
- Enter as many essay and speech contests as you can for scholarships.
- Get involved in extracurricular activities, including sports, clubs, and more.

Sophomore Year:

- Take the most challenging courses you can.
- Sign up for a free student account on www.collegeboard.com, then go to "My Organizer" for a helpful to-do list for tests and applications. Take it step by step—it's easier than it looks.
- Volunteer in the community. Remember, GSA requires 50 hours of community service for graduation.
- Job shadow someone who does what you think you might like to do. (In other words, follow them around for a day.)

Junior Year:

- Challenge yourself by taking solid elective courses, such as extra Math, Science, Foreign Language, Computer Technology, and more. Colleges want to see demanding courses on your transcript.
- Run for leadership positions in organizations you're involved with such as students' council
- Seek registration for post-secondary education programs at local colleges.
- Take the PSAT in October to qualify for the National Merit Scholarship Competition.
- Attend an ACT/SAT preparation workshop. If you can't, purchase practice books or software to help you prepare.
- Take the ACT and/or SAT during the spring semester so you have at least one score entering your senior year. Doing so also puts you on college mailing lists and provides the schools you're considering with important information about you.
- Search for colleges. Talk to your counselor about the major and locations you're interested in and possible scholarships. Ask for his or her suggestions on which colleges to consider. Ask friends and family for ideas, too.
- Request information from the colleges that interest you.
- Attend at least one local college fair.
- Begin collecting information on scholarship opportunities.
- Consider summer activities such as internships or programs on college campuses or in related industries.

Senior Year:

- Put together your personal and academic resume.
- Get to know the admissions criteria for your top schools. Know where you stand relative to those requirements and work toward changing what you can, if you happen to fall short.
- Sit down with everyone who has a stake in your college decision making and solicit their input. Listen to what they have to say.
- Gather applications for the schools you're considering. Note deadlines for admission, scholarships, housing, and more. Develop a timetable of deadlines.
- Write essays for your college applications and ask your English teachers to review them.
- Ask for letters of recommendation from teachers, counselors, and employers. Choose people who actually know you and give them plenty of time to write the letters.
- Borrow scholarship information—such as contact names, addresses, applications, etc. from someone a year ahead of you in school who received several scholarships.
- Meet early admission deadlines.
- Apply for scholarships before Christmas break. Verify the arrival of your application, transcripts, and other materials.

- Attend a financial aid workshop and apply for financial aid as soon as possible after January 1st.
- Choose the college you'll attend and let that college know of your decision. Notify other colleges whose offers you are turning down.
- Submit any enrollment deposits if needed.
- Send thank-you letters to those who wrote letters of recommendation and let them know about your decision.

College Readiness Courses:

During your sophomore and junior years, you'll take college readiness courses that will help you do your best on standardized college entrance exams like the ACT and SAT. Available for English, Math, and Science, these courses let you "practice" before test day—so you're familiar with the tests, what they measure, and how they're scored. You'll learn test-taking strategies as well as how to process information efficiently, manage time effectively, improve concentration and listening skills, and prepare for and perform well on tests with a variety of question formats.

Plus, as a senior, you'll have the option of taking "College Path," a course designed to help you prepare for life after high school graduation. It provides a foundation for successful school-to-college or school-to-career transitions and covers:

- Self-assessments to analyze interests and skills
- College search strategies (rank, tuition, housing, etc.)
- College application process, including interviews and essays
- Resume building and mock interviews
- Job shadowing and internships

Testing Program

The testing program is an attempt to provide objective data to be used in understanding a student's needs and abilities. The tests that will be given routinely are listed below. Other tests may be given when necessary.

1. End of Course (EOC) – Required Missouri Assessment Program Testing, the Missouri Assessment Program assesses students' progress toward the Missouri Learning Standards. End-of-Course assessments are taken when a student has received instruction on the Missouri Learning Standards for a course, regardless of grade level. **Students in Missouri, including Missouri Option Program students, are required to take Algebra I, Biology, English II and Government assessments prior to graduating from high school.** For students who complete the Algebra I EOC assessment prior to high school, Algebra II is the required high school mathematics assessment for accountability purposes.

2. ACT (American College Test): Required Missouri Assessment Program Testing Statewide administration of the ACT will occur on a single date, at the same time, and under standardized administration conditions for all grade 11 students in Missouri. Students unable to test on the designated statewide administration date will be tested on the statewide makeup date. Students may opt to take additional ACT tests at their own expense. The test is offered six times per year and takes approximately three hours and 30 minutes to complete. To register or for more information, go to www.act.org.

3. Advanced Placement (AP): Exams Students can earn college credit, advanced placement or both by earning qualifying grades on AP exams. Students may take an AP Exam without taking an AP course. Students take AP exams at their own expense.

5. PSAT-NMSQT The PSAT/NMSQT: is an optional test for grade 10 or grade 11 students who wish to assess their ability to do college work. The test measures critical reading, math reasoning, and writing skills that are important for successful academic performance in college. In order to be eligible for the National Merit Scholarship Program, students must be in their third year of high school and have taken the PSAT test on one of the national test dates.

6. SAT College Entrance Exam: The SAT and SAT Subject Tests are offered several times a year. Most students take the SAT for the first time during the spring of grade 11 and a second time during the fall of grade 12. The SAT is a three hour and 45-minute test that measures students' basic knowledge of subjects they have learned in the classroom, such as reading, writing and mathematics, in addition to evaluating how they think, solve problems and communicate. To register, go to www.sat.collegeboard.org.

Post-Secondary Enrollment Options Program (PSEOP):

PSEOP, also known as dual credit course, is different than simply enrolling in college-level classes. Through this program, you'll actually take courses with college students and have access to all the same learning resources they do—including libraries, computer labs, and

tutorial programs. Plus, you'll have the opportunity to earn dual credits toward both high school and college. GSA offers PSEOP to Juniors and Seniors with a minimum cumulative GPA of 3.5 who are recommended by their teachers and college counselor.

Dual Enrollment Program

In order to expand opportunities for our students, contracted agreements have been made with local universities to provide college credit for specific courses taken on the GSA campus or designated school. These courses meet the rigor associated with college coursework, allow students to simultaneously earn credit toward high school graduation and a post-secondary degree, and provide students with an early glimpse of college academic standards. Some courses may only be transferable to a specific institution. It is important to be aware in advance of this distinction. Dual Enrollment course options are determined after the printing of the Course Planner due to the timing of contracted agreements with partnering universities. The cost associated with each course is determined by the accrediting university and may be significantly less than actual college course fees. Students and their families are responsible for the payment of college fees associated with the course. The student must abide by policies and procedures established by the accrediting university (deadlines, etc.).

Concept Young Scholars Program (CYSP)

The MISSION of the Concept Young Scholars Program (CYSP) is to improve the students' academic success, prepare them for college, develop strong character, nurture and empower students through Personal Development, Community Service, Physical Activities and Educational Adventures.

We ENVISION that CYSP's structure and devoted, nurturing community build self-motivated, eager learners who are prepared for the future and ready to lead a successful life.

Program Overview

Students who commit to the CYSP program will be engaged in a systematic process that guides, recognizes, and rewards their progress. The program encourages activities such as academic competitions, college trips, and excursions.

Once students successfully register for the CYSP program, they will be asked to select an advisor. If the selected advisor is unavailable, students (will call scholars) will be assigned to other advisors by the school CYSP coordinator. Advisors will assist in planning activities, monitoring progress, and setting goals in the following areas:

- Personal Development
- Community Service
- Physical Fitness
- Educational Adventure

Portrait of CYSP Scholars

CYSP scholars are the future leaders who build relationships and understand the importance of serving others in order to inspire action and accomplishment.

- Take ownership of their learning
- Have a deep sense of respect for societal norms
- Take responsibility for their actions
- Engage within their communities
- Demonstrate empathy and compassion
- Effectively communicate verbally and nonverbally
- Adapt and persist when challenged

For more information, visit: <https://cysp.us/about-the-program/>.



A+ Scholarship Program:

GSA is an A+ School as designated by the State of Missouri. Students that graduate from GSA High School meeting the following requirements may be eligible for up to 2 years of paid tuition at a Missouri Community College or Public Tech School.

- Sign an A+ Agreement to enroll in the program.
- Attend an A+ school for the 2 consecutive years prior to graduation.
- Achieve a minimum 2.5 G.P.A.
- Have a record of good citizenship.
- Have a 95% attendance rate by graduation.

- Score proficient or advanced on the Algebra I EOC (or a higher Math EOC).
- **2018 High School Seniors and Forward** - If student meet all of the eligibility requirements except the end of course exam requirement, students may establish eligibility by achieving a combined ACT math subscore and high school GPA in accordance with the following scale.

ACT Math Score		High School GPA
17 or greater	and	2.5 or greater
16	and	2.8 or greater
15	and	3.0 or greater

- Complete 50 hours of unpaid tutoring/mentoring at a GSA school under the supervision of a GSA certified teacher. If there is an out of school tutoring/mentoring opportunity, it needs to be discussed with the counselor.

**Students can enroll in the A+ program at any grade level but the latest enrollment should be done by Sept. 30 of their senior year.

All requirements are cumulative over the 4 years of high school. For more information, visit:

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

STEM Project Presentation

During your freshman year, you'll undertake a project covering a topic related to science, technology, engineering, or math and present your results. It's a great opportunity for you to:

- Build self-confidence through an independently created project
- Get individualized attention and express your individual differences
- Shine outside the classroom
- Further develop reading, writing, and communication skills
- Apply important math concepts (estimating, measuring, using algebraic and analytical methods, predicting results, and collecting, organizing, and analyzing data using statistical methods) to real-world situations
- Improve your understanding of scientific inquiry and technological design (investigating questions, conducting experiments, examining the interconnections between sciences, and exploring relationships between science, technology, and society).

Community Service

Beginning your freshman year, and continuing throughout high school, you'll complete **50 hours** of community service. By connecting classroom curriculum with service projects, you'll deepen and extend your knowledge to improve academic achievement, build social skills, and develop civic skills and attitudes.

Senior Thesis Project:

The senior capstone project is the culmination of your academic experience at GSA, building on the skills you've developed in pursuing original research. As a senior, you'll explore an idea, problem, or theory in depth and conduct research to present a college-level thesis that meets the standards of a freshman composition course at the university level. Successfully completing this project is another key indicator of your college readiness.

Sports & Extracurricular Activities:

GSA isn't all about classroom work. Athletics and extracurricular programs play a significant role in the culture of our school. We encourage you to take part in our clubs, special interest groups, annual school-wide events, annual Concept Schools network-wide events, and field trips.

Special Note: Although we had to pause some of our activities due to the rise of Covid-19, we will resume them as soon as the conditions are suitable again.

Athletics:

Sports are an integral part of our overall educational plan because they help develop mature, responsible young adults. Participation in sports enriches personal growth and development, sets standards for leadership and excellence, and requires dedication and hard work.

Our sports program currently includes the following sports, though these offerings may change from year to year.

Fall

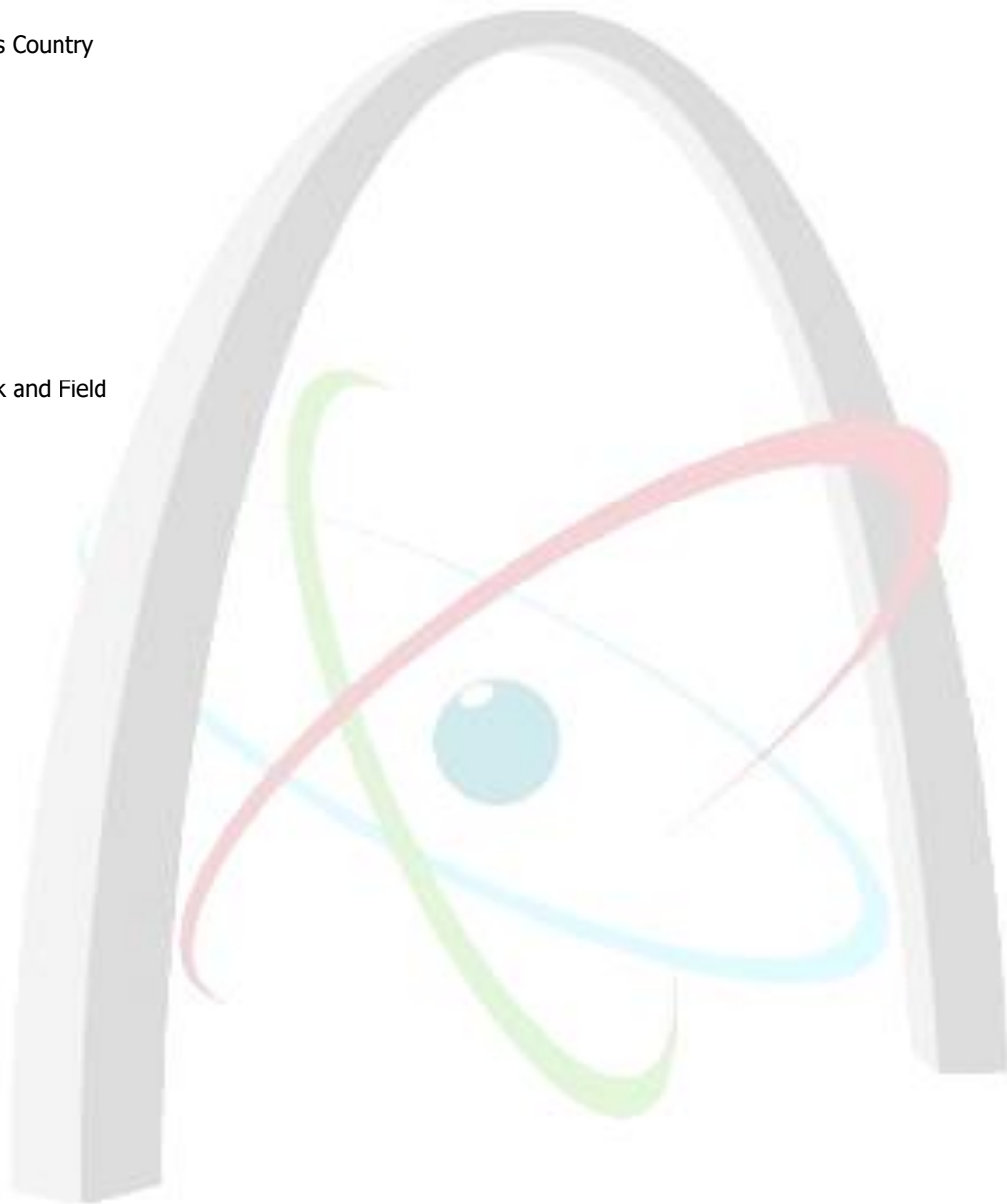
Boys Soccer
Cheerleading
Girls Volleyball
Boys and Girls Cross Country
Girls Softball

Winter

Boys Basketball
Girls Basketball
Boys Wrestling

Spring

Girls Soccer
Boys Baseball
Boys and Girls Track and Field



Activities:

Due to the pandemic there are less activities and clubs offered. GSA currently offers:

- **Student Council**
- **National Honor Society (NHS)**
- **Spanish National Honor Society (Spanish NHS)**
- **Music Honor Society (Tri-M)**
- **Concept Young Scholars Program (CYSP)**
- **Robotics**
- **Theater**
- **Esports**
- **International Orchestra**
- **Pop Band**
- **Debate**

Student Council

Student Council is an organization conducted by students and supervised by adults. The purpose of the student council is to give students an opportunity to develop leadership by organizing and carrying out school activities and service projects. In addition to planning events that contribute to school spirit and community welfare, the student council is the voice of the student body. They help share student ideas, interests and concerns with the school wide community.

National Honor Society (NHS)

The National Honor Society is a nationwide organization for high school students in the United States and outlying territories, which consists of many chapters in high schools. It is a selective program in which its member's selection is based on the student's academics, leadership, community service, and teacher recommendations.

Spanish National Honor Society (Spanish NHS)

The Spanish National Honor Society is an academic honor society focused on Spanish language excellence in secondary education and promotes a continuity of interest in Spanish language and culture studies.

Music Honor Society (Tri-M)

Tri-M Music Honor Society is a program of the National Association for Music Education, which focuses on creating future leaders in music education and music advocacy. Tri-M is one of the largest and more recognized high school honor societies for musically inclined students.

Concept Young Scholars Program (CYSP)

The Concept Young Scholars Program (CYSP) is a multifaceted program designed to prepare students to become well-rounded individuals by actively following their interests, diversifying their experiences, and improving their academics. Students are each assigned an advisor who will assist in planning activities, monitoring progress, and setting goals in four areas: Personal Development, Voluntary Public Service, Physical Fitness and Expedition/Exploration.

Robotics

Focusing on two specific robotics competitions, FTC and SeaPerch, GSA offers robotics to its students as an after school activity. Participating in robotics gives students the chance to learn lifelong skills in teamwork, leadership, communications, and more while designing, building, and programming a robot to compete against other teams in both state, national, and world level.

Theater

Theater club gives students an outlet for interests that go beyond acting. It enriches speaking skills, creative learning and spontaneous thinking. Students who do not want to act can help with props, costumes, or lights and sounds.

Esports

Esports officially stands for electronic sports. Esports takes video gaming to another level with organized competitive gameplay between two teams, governed by its own strict set of rules and guidelines.

International Orchestra

Students who play a string instrument have the opportunity for extra practice after school while also learning more about other cultures by playing music pieces from around the world.

Pop Band

Pop Band is a new club designed for students who have an interest in playing guitar or percussion instruments.

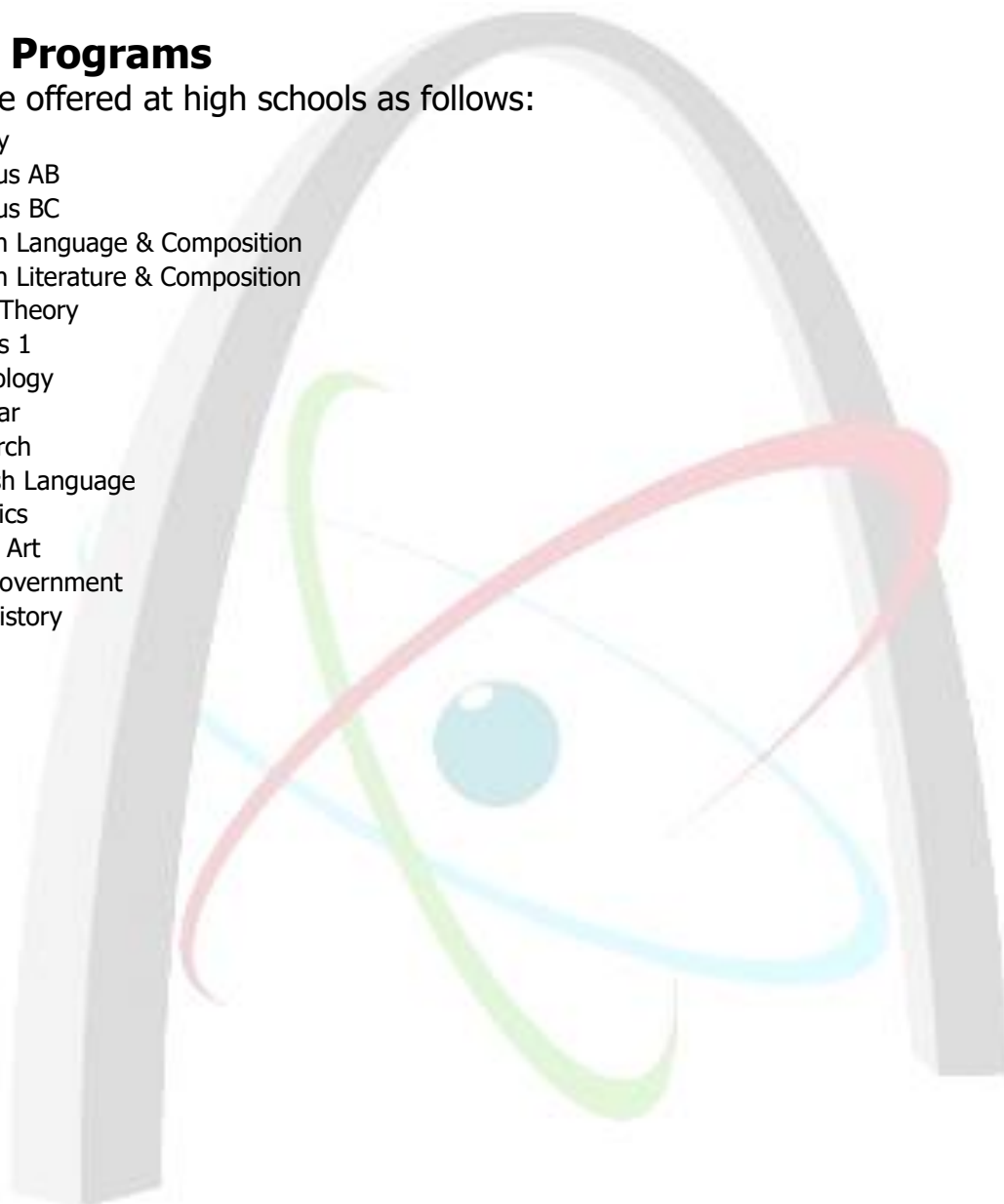
Debate

Debate Club's aim is to empower students with the skills of expressing their beliefs clearly and concisely, public speaking and effective communication in a formal setting, and staying aware of current events in the world.

Advanced Programs

AP courses are offered at high schools as follows:

- AP Biology
- AP Calculus AB
- AP Calculus BC
- AP English Language & Composition
- AP English Literature & Composition
- AP Music Theory
- AP Physics 1
- AP Psychology
- AP Seminar
- AP Research
- AP Spanish Language
- AP Statistics
- AP Studio Art
- AP U.S. Government
- AP U.S. History



Dual Credit Course Offerings All Years

	Course Code	College Course Code	College Credit	Semester	AP/Dual Credit	GSA Course Code
SLU	ENG 1500	The Process of Composition X06	3	Semester	AP & Dual Cr.	AP Language and Composition
SLU	ENG 1900	Advanced Strategies and Research	3	Semester	AP & Dual Cr.	AP® English Language and Composition
SLU	ENG 2250	Conflict, Social Justice & Literature	3	Semester	AP & Dual Cr.	AP® English Literature and Composition
SLU	ENG 2750	Film, Culture and Literature	3	Semester	AP & Dual Cr.	Film, Culture, and Literature
SLU	ENG 1500	The Process of Composition X07	3	Year	Dual Cr.	The Process of College Composition
SLU	ENG 1900	Advanced Strategies of Rhetoric and Research 12X	3	Year	Dual Cr.	Advanced Strategies of Rhetoric and Research
SLU	AENG/MENG 1001	Introduction to Engineering	1	Year	Dual Cr.	Introduction to Engineering
SLU	MATH 1200	College Algebra	3	Year	Dual Cr.	College Algebra
UMSL	Math 1030	College Algebra	3	Year	Dual Cr.	College Algebra
UMSL	MATH 1045	PreCalculus	5	Year	Dual Cr.	PreCalculus (Dual Credit)
UMSL	Math 1800	Analytic Geometry and Calculus I	5	Year	AP & Dual Cr.	AP Calculus AB
UMSL	BIOL 1131	Human Physiology & Anatomy and Lab	4	Year	Dual Cr.	Human Physiology & Anatomy
UMSL	BIOL 1012 & 1013	General Biology & Laboratory	3+1	Year	AP & Dual Cr.	AP Biology

Elite Math Program

The High School Elite Math program is designed to support students with building a strong math foundation. Participating in the program and taking higher level courses, such as AP courses, will help students admitted to selective national universities. By participating in the program, students can build a more well-rounded academic background as well as develop problem-solving abilities and critical thinking skills.

Even though students from the middle school Elite Math program are already eligible to the program, we accept new students with the approval of the GSA Elite Math Committee with the following selection criteria:

- Academic performance (GPA)
- Elite Math Screening Test
- Existing Assessment Data: ACT, PSAT, EOC, State MAP, and NWEA
- Parent/Guardian and Student Commitment

Students from this program usually get perfect ACT Math and AP Calculus scores; and develop test-taking skills for the ACT. Prior Elite Math Students are accepted in top notch national colleges such as MIT, WASHU, Northwestern, Rice, Georgia Tech, etc.

The Curriculum:

- **9th grade:** Geometry and Algebra-2
- **10th grade:** Pre-Calculus
- **11th grade:** AP Calculus AB/ AP Statistics
- **12th grade:** AP Calculus BC and college math course (College level course will be based on individual student interest and performance).

Career Clusters:

A career cluster is an area of interest that helps students identify a career focus, and provides students with a context for studying traditional academic and learning skills specific to a career. What steps are involved in making a career decision?

1. Identify your interests, abilities, and talents.
2. Consider the possible careers in each cluster in relationship to those interests, abilities, and talents.
3. Decide which career cluster seems to fit best.
4. Select courses that are related to the career chosen.
5. Follow your four-year plan of course work for high school.

Career choices begin in high school and lead to entry-level work force, military, two-year associate degrees, and/or four-year baccalaureate degrees.

Career interest inventories help students identify their career interests and make wise career choices. Those available through the Guidance Office are: Missouri Connections, Strong Campbell Vocational Interest Inventory, Career Assessment Inventory (CAI), and Armed Services Vocational Aptitude Battery (ASVAB).

Agriculture, Food and Natural Resources: Producing, processing, marketing, distributing, financing and developing agricultural commodities and resources, including food, fiber, wood products, natural resources, horticulture and other plant and animal products.

Architecture and Construction: Designing, planning, managing, building and maintaining the built environment.

Arts, Audio-Visual Technology and Communications: Designing, producing, exhibiting, performing, writing and publishing multimedia content, including visual and performing arts and design, journalism and entertainment services.

Business, Management and Administration: Planning, organizing, directing and evaluating business functions essential to efficient and productive business operations.

Education and Training: Planning, managing and providing education and training services, and related learning support services.

Finance: Planning and providing services for financial and investment planning, banking, insurance and business financial management.

Government and Public Administration: Executing governmental functions including governance, national security foreign service, planning, revenue and taxation, regulation and management and administration at the local, state and federal levels.

Health Science: Planning, managing and providing therapeutic services, diagnostic services, health informatics, support services and biotechnology research and development.

Hospitality and Tourism: Managing, marketing and operating restaurants and other food services, lodgings, attractions, recreation events and travel related services.

Human Services: Preparing individuals for employment in career pathways that relate to families and human needs.

Information Technology: Designing, developing, supporting and managing hardware, software, multimedia and system integration services.

Law, Public Safety, Corrections and Security: Planning, managing and providing legal, public safety, protective and homeland security services, including professional and technical support services.

Manufacturing: Planning, managing and performing the processing of materials into intermediate or final products, including related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.

Marketing, Sales and Service: Planning, managing and performing marketing activities to reach organizational objectives.

Science, Technology, Engineering and Mathematics (STEM): Planning, managing and providing scientific research and professional and technical services (such as physical science, social science, engineering), including laboratory and testing services and research and development services.

Transportation, Distribution and Logistics: Planning, managing and moving people, materials and goods by road, pipeline, air, rail and water, including related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

English Course Flow Chart

SEQUENCE 1		
9 th Grade	English 1	Reading & Writing Workshop
10 th Grade	English 2	Foundation of English 2
11 th Grade	English 3	College Readiness English
12 th Grade	English 4	

SEQUENCE 2		
9 th Grade	H English 1	Reading & Writing Workshop
10 th Grade	H English 2	College Readiness English
11 th Grade	The Process of Composition	College Readiness English
12 th Grade	Advanced Strategies of Rhetoric and Research	

SEQUENCE 3		
9 th Grade	Pre-AP English	Reading & Writing Workshop
10 th Grade	AP® English Language and Composition	AP Seminar
11 th Grade	AP® English Literature and Composition	AP Research
12 th Grade	Film, Culture, and Literature-Dual Credit	

Language Arts Program

ENGLISH I Full Year, Grade 9

English 1 is a required ninth grade course which focuses on the writing process, including a review and refinement of sentence structure and grammar skills. Composition and research are integrated throughout the course. It also serves as an introduction to a variety of genre, including a Shakespearian play, short stories, novels, non-fiction and poetry. *This course includes a state required End of Course Exam.

PREREQUISITE:

CREDIT: 1 Unit

***Honors ENGLISH I Full Year, Grade 9**

Honors English 1 serves as an introduction to a variety of genres, including short stories, on-fiction, poetry, novels, and drama. It is a course that focuses on both analyzing literature and the writing process, including a review and refinement of sentence structure and grammar skills. Composition and research are integrated throughout the course. This course includes a state required End of Course Exam.

PREREQUISITE: Teacher Recommendation and "B" or higher in Communication Arts- 8th grade OR English Placement test score of 80%.

CREDIT: 1 Unit, WEIGHTED: 1

ENGLISH II Full Year, Grade 10

English 2 is a full year course for all sophomores. Students will read a variety of literary genres and write four major papers focusing on the writing process. *This course includes a state required End of Course Exam.

PREREQUISITE: Students must pass English 1 to take English 2 or must take English 1 again while concurrently taking English 2. Students will be required to take the failed course each year until passed while taking the required English course for that grade level.

CREDIT: 1 Unit

***Honors ENGLISH II Full Year, Grade 10**

Honors English 2 is required for all sophomores. This honors level course exposes students to the basic forms of literature: short story, poetry, play, novel, biography/memoir, and essay. Students will read the works of a variety of authors in order to enlarge their experience and deepen their understanding of the world in which they live. *This course includes a state required End of Course Exam.

PREREQUISITE: Students must have earned an "A", "B", or "C" in the previous year's Honors English course, or students must have earned an "A" or "B" in the previous year's regular English course excluding summer school, Correspondence courses.

CREDIT: 1 Unit, WEIGHTED: 1

***Pre-AP ENGLISH Full Year, Grade 10**

Pre-AP English 2 builds on the foundations of Pre-AP English 1. While English 1 introduces the fundamentals of close observation, critical analysis, and the appreciation of author's craft, English 2 requires students to apply those practices to a new array of nonfiction and literary texts. As readers, students become aware of how poets, playwrights, novelists, and writers of nonfiction manipulate language to serve their purposes. As writers, students compose more nuanced analytical essays while never losing sight of craft and cohesion.

PREREQUISITE: Students must have earned an "A", "B", or "C" in the previous year's Honors English course, or students must have earned an "A" or "B" in the previous year's regular English course excluding summer school, Correspondence courses.

CREDIT: 1 Unit, WEIGHTED: 1

ENGLISH III Full Year Grade 11

World Literature introduces a wide range of genres from short story and poetry to novels and drama; the timeline spans from the first written stories to contemporary literature. The class also includes intensive research and creative writing. Upon completion of this course, students have a broad knowledge of influential world literature and a strong grasp of the written language. Grammar and vocabulary development are enhanced with special emphasis paid to ACT/SAT preparation.

PREREQUISITE: Students must pass English 1, and English 2. Students will be required to take the failed course each year until passed while taking the required English course for that grade level.

CREDIT: 1 Unit

ENGLISH IV Full Year, Grade 12

British Literature encompasses a year-long survey of British literature, including works of William Shakespeare, Mary Shelley, and George Orwell. In addition, it combines the continuing development of critical reading and writing skills for the college-bound student. An emphasis is placed on writing papers using critical research skills and employing a higher degree of sophistication in writing and vocabulary. Grammar and vocabulary development are further sophisticated with special emphasis paid to ACT/SAT preparation and the foundational skills students need to succeed in college.

PREREQUISITE: Students must pass English 1, English 2, and English 3. Students will be required to take the failed course each year until passed while taking the required English course for that grade level.

CREDIT: 1 Unit

***THE PROCESS OF COLLEGE COMPOSITION Full Year Grade 12**

Students will read and view texts and reflect on their rhetorical impact by examining how writers and speakers interact with their audiences, anticipating and creating their reactions. They will also analyze how writers use generic conventions (for example, of layout and organization) to help make their points more or less palatable for their readers. Furthermore, students will write and rework and rewrite a number of essays, so that you can also practice interacting with your reader as you write, and thus write more effectively for various contexts, especially academic contexts.

PREREQUISITE: Student must have taken the Pre-AP or English II Honors course and get teacher recommendation.

CREDIT: 1 Unit, **WEIGHTED:** 1

***ADVANCED STRATEGIES OF RHETORIC AND RESEARCH Full Year Grade 12**

Students critically analyze texts and how they position topics and align readers/viewers from various disciplines and media by evaluating the evidence provided for claims, the language used to achieve different rhetorical effects, and the persuasive acts created through combinations of text and image (and/or other semiotic modes of representation). They also practice the process of writing up research, which includes the consolidation of skills such as paraphrasing, summarizing, and synthesis. The rhetorical assignments provide opportunities to produce work of increasing complexity for multiple audiences, and to elucidate how texts for different audiences/purposes call for variation in design choices.

PREREQUISITE: Teacher recommendation and student must have taken The Process of College Composition.

CREDIT: 1 Unit, **WEIGHTED:** 1

***AP ENGLISH LITERATURE AND COMPOSITION Full Year 11- 12 Grade**

Following a College Board's approved curriculum designed to parallel college-level English courses, AP English Literature and Composition courses enable students to develop critical standards for evaluating literature. Students study the language, character, action, and theme in works of recognized literary merit; enrich their understanding of connotation, metaphor, irony, syntax, and tone; and write compositions of their own (including literary analysis, exposition, argument, narrative, and creative writing).

PREREQUISITE: Teacher recommendation and student must have taken AP English Language and Composition course.

CREDIT: 1 Unit, **WEIGHTED:** 1

***AP ENGLISH LANGUAGE AND COMPOSITION Full Year 11-12 Grades**

Following a College Board's approved curriculum designed to parallel college-level English courses, AP English Language and Composition courses expose students to prose written in a variety of periods, disciplines, and rhetorical contexts. These courses emphasize the interaction of authorial purpose, intended audience, and the subject at hand, and through them, students learn to develop stylistic flexibility as they write compositions covering a variety of subjects that are intended for various purposes.

PREREQUISITE: Teacher recommendation and student must have taken the Pre-AP or English II Honors course.

CREDIT: 1 Unit, **WEIGHTED:** 1

English Elective Courses:

PUBLIC SPEAKING: Semester 9-11 Grades

Speech & Debate is for students interested in pursuing a career in drama, law, TV, journalism, or other careers in which research and public speaking are mandatory. Participation in this course requires attendance at weekly (Saturday) competitions and parental involvement. Parents/guardians are trained as judges. Students earn membership into the National Forensic League, a prestigious honor society.

CREDIT: 0.5 Unit

READING AND WRITING WORKSHOP: Full Year 9 Grades

This required elective is taught in coordination with the English I class. Teachers work in collaboration to select texts, by genre that students will read to interpret the author's purpose and style before writing their own versions. Readers and Writers Workshop focuses on students as learners, as well as readers and writers in practice. As readers and writers, students are mentored, working in a supportive and collaborative environment with their mentor on touchstone texts (often referred to as mentor texts). The instructional delivery system inherent in the workshop approach emphasizes the reciprocity between reading and writing

CREDIT: 1 Unit

FOUNDATIONS OF ENGLISH II: Full Year 10 Grades

Students build and reinforce foundational reading, writing, and basic academic skills needed for success in high school. Struggling readers develop mastery in reading comprehension, vocabulary building, study skills, and media literacy. Students build confidence in writing fundamentals by focusing on composition in a variety of formats, grammar, style, and media literacy.

CREDIT: 1 Unit

COLLEGE READINESS ENGLISH: Semester 10-11 Grades

College Readiness relies heavily on ACT's college readiness standards and the CCSS College and Career Readiness standards to prepare upper-level students for college coursework. Focusing on both reading and writing skills, students read a broad range of nonfiction and practice writing extended essays that go far beyond the standard five-paragraph essay. Test-taking skills are also addressed.

CREDIT: 0.5 Unit

COLLEGE CAREER AND COMPOSITION: Full Year 12 Grades

Research/Technical Writing classes prepare students to write research papers and/or technical reports. These classes emphasize researching (primary and secondary sources), organizing (material, thoughts, and arguments), and writing in a persuasive or technical style.

CREDIT: 1 Unit

AP SEMINAR ELECTIVE: Full Year 10-11 Grades

AP Seminar is an inquiry-based course that aims to engage students in cross-curricular research and conversations to explore the complexities of academic and real-world topics/ issues. Students explore these complexities via thematic connections between multiple perspectives and lenses (e.g., cultural, social, artistic, philosophical, political, historical, environmental, economic, scientific, futuristic, ethical) .They gain a rich appreciation and understanding of these real-world issues by reading articles and research studies; reading foundational, literary, and philosophical texts; viewing and listening to speeches, broadcasts, and/or personal accounts; and experiencing artistic works and performances.

CREDIT: 1 Unit, WEIGHTED: 1

AP RESEARCH ELECTIVE: Full Year 11-12 Grades

The AP Capstone Research course allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Students will further their skills gained in AP Seminar course by learning research methodology, using ethical practices, and accessing, analyzing, and synthesizing information. Students will reflect on the entire project and keep a journal of their work.

CREDIT: 1 Unit, WEIGHTED: 1

Contemporary Literature**Semester 10-12 Grades**

Contemporary Literature offers a global approach to literature. It explores the literature of the twentieth century to the present. Emphasis is placed on research and critical analysis skills necessary for success in college. Students will also write creatively by developing their own poems, stories and creative essays. Contemporary issues and mature language may be encountered in the reading.

CREDIT: 1 Unit, WEIGHTED: 1

Mathematics Flow Chart

SEQUENCE 1		
9 th Grade	Algebra 1	Algebra 1 Lab
10 th Grade	Geometry	College Readiness Math
11 th Grade	Algebra 2	College Readiness Math
12 th Grade	Intermediate College Algebra	
SEQUENCE 3		
9 th Grade	H Geometry	Pre-Calculus/Trigonometry
10 th Grade	H Algebra 2	College Readiness Math
11 th Grade	Dual Credit College Algebra	AP Calculus BC
12 th Grade	AP Statistics	AP Calculus AB

SEQUENCE 2		
9 th Grade	H Algebra 1	Algebra 1 Lab
10 th Grade	H Geometry	College Readiness Math
11 th Grade	H Algebra 2	College Readiness Math
12 th Grade	Dual Credit College Algebra	
SEQUENCE 4		
9 th Grade	Algebra 1a	Algebra 1a Lab
10 th Grade	Algebra 1b	Algebra 1b Lab
11 th Grade	Geometry	
12 th Grade	Algebra 2	Intermediate Algebra

Math Program

ALGEBRA I A: Full Year Grade 9

Algebra A provides the basic concepts and skills for solving problems algebraically. This course covers the properties of, and order of operations, on real numbers and algebraic expressions. Students will solve and graph single variable equations and inequalities; graph 2-variable equations in the coordinate plane; write 2-variable linear equations; solve and graph 1- and 2-variable absolute value equations and inequalities; translate word problems into equations; solve 2-variable systems of equations and inequalities.

CREDIT: 1 Unit

ALGEBRA I: Full Year Grade 9

Algebra I provides the concepts and skills for solving problems algebraically. This course covers the properties of, and order of operations on, real numbers and algebraic expressions. Students will solve and graph 1-variable equations and inequalities; graph 2-variable equations in the coordinate plane; write 2-variable linear equations; solve and graph 1- and 2-variable absolute value equations and inequalities; solve 2-variable systems of equations and inequalities; translate word problems into equations; perform operations on polynomials including use of properties of exponents and factoring; solve quadratic equations by factoring; solve same-base exponential equations; transform graphs of parent functions including absolute value, quadratic, and exponential functions. This course also includes a brief introduction to probability and statistics.

PREREQUISITE: Pre-Algebra, or at or above grade level in 8th grade math.

CREDIT: 1 Unit

***HONORS ALGEBRA I Full Year Grade 9**

Honors Algebra I provides a more in-depth coverage of concepts and skills from Algebra I, at a faster pace. This course covers the properties of, and order of operations on, real numbers and algebraic expressions. Students will solve and graph 1-variable equations and inequalities; graph 2-variable equations in the coordinate plane; write 2-variable linear equations; solve and graph 1- and 2-variable absolute value equations and inequalities; solve 2-variable systems of equations and inequalities; translate word problems into equations; perform operations on polynomials including use of properties of exponents and factoring; solve quadratic equations by factoring; solve same-base exponential equations; transform graphs of parent functions including absolute value, quadratic, and exponential functions. This course also includes a brief introduction to probability and statistics.

PREREQUISITE: Pre-Algebra with a "B" or higher,

CREDIT: 1 Unit

GEOMETRY: Full Year Grades 9-10

The Honors Geometry course includes an in-depth analysis of plane, solid, and coordinate geometry as they relate to both abstract mathematical concepts, and real world problem situations. Topics include logic and proof, parallel lines and polygons, perimeter and area analysis, volume and surface area analysis, similarity and congruence, trigonometry, coordinate geometry, vectors, and analytic geometry. Emphasis will be placed on the student's ability to research and communicate geometric ideas, as well as developing critical thinking skills as they relate to logical reasoning and argument. Students will be required to use different technological tools and manipulatives to discover and explain much of the course content.

PREREQUISITES: Algebra 1 or Algebra A with a "C" or higher,

CREDIT: 1 Unit

***HONORS GEOMETRY: Full Year Grade 9-10**

Honors Geometry is an in-depth course designed for those students who have already displayed an aptitude in mathematics. It covers all the traditional topics of Euclidean Geometry with particular emphasis on inductive and deductive reasoning. Formal geometric language, theorems, constructions, and proofs are emphasized. Algebraic skills and technology are incorporated throughout the course. Students will be required to use different technological tools and manipulatives to discover and explain much of the course content.

PREREQUISITES: Teacher Recommendation and Algebra 1

CREDIT: 1 Unit, WEIGHTED: 1

ALGEBRA I B: Full Year Grade 10

Algebra B provides the basic concepts and skills for solving problems algebraically. This course covers a review of the skills taught in Algebra A. Students will perform operations on polynomials including use of properties of exponents and factoring; solve quadratic equations by factoring; solve same-base exponential equations; transform graphs of parent functions including absolute value, quadratic, and exponential functions. This course also includes a brief introduction to probability and statistics.

PREREQUISITES: Algebra IA, with teacher recommendation, this class can run concurrently with Geometry.

CREDIT: 1 Unit

INTERMEDIATE ALGEBRA: Full Year Grade 11-12

After some review of the standard topics of Algebra I, students will solve quadratic equations by factoring, completing the square, and the quadratic formula; perform operations on irrational and complex numbers; perform operations on, graph and solve rational and equations and functions; solve systems of 3-variable linear equations using matrices; identify and graph conic sections; solve and graph exponential and logarithmic equations and functions.

PREREQUISITES: Algebra I or Algebra B, may be taken before or after Algebra II based on teacher recommendation.

CREDIT: 1 Unit

ALGEBRA II Full Year Grade 10

After some review of the standard topics of Algebra I, students will solve quadratic equations by factoring, completing the square, and the quadratic formula; perform operations on irrational and complex numbers; solve problems involving direct, inverse, joint, and combined variation; perform operations on, graph and solve rational and equations and functions; solve systems of 3-variable linear equations using matrices; identify and graph conic sections; solve and graph exponential and logarithmic equations and functions; differentiate and use sequences and series; solve right triangles using trigonometric ratios; analyze statistics and calculate various types of probability. Various strategies are used to engage students in problem solving and improve their critical thinking skills.

PREREQUISITES: Algebra 1, CREDIT: 1 Unit

***HONORS ALGEBRA II: Full Year Grades 10-11**

Honors Algebra II provides a more in-depth coverage of concepts and skills from Algebra II, at a faster pace. Students will solve quadratic equations by factoring, completing the square, and the quadratic formula; perform operations on irrational and complex numbers; solve problems involving direct, inverse, joint, and combined variation; perform operations on, graph and solve rational and equations and functions; solve systems of 3-variable linear equations using matrices; identify and graph conic sections; solve and graph exponential and logarithmic equations and functions; differentiate and use sequences and series; solve right triangles using trigonometric ratios; analyze statistics and calculate various types of probability. Various strategies are used to engage students in problem solving and improve their critical thinking skills.

PREREQUISITES: Teacher recommendation and Geometry with a "B" or higher, or Honors Geometry with a "C" or higher

CREDIT: 1 Unit, WEIGHTED: 1

INTERMEDIATE COLLEGE ALGEBRA Elective Full Year 11-12 Grade

This course strengthens and further develops manipulative skills in elementary algebra. Topics include the fundamental operations on algebraic expressions, solutions of equations and inequalities, exponentiation, graphs of algebraic, exponential and logarithmic functions, systems of equations and inequalities, and an introduction to the conic sections. Applications are included in a wide variety of word problems.

PREREQUISITE: Algebra 1, CREDIT: 1 Unit CREDIT

COLLEGE ALGEBRA: Full Year Grade 11-12 (Can be taken as Dual Credit)

College Algebra provides an in-depth review of both Algebra 1 and Algebra 2. Students will solve single variable equations and inequalities; perform operations on irrational and complex numbers; solve quadratic, radical, and rational equations using a variety of techniques including factoring, completing the square, and the quadratic formula; solve and graph 1-variable absolute value equations and inequalities; transform graphs of parent functions including quadratic, cubic, square root, cube root, and absolute value functions; analyze functions for domain and range, symmetry and even/odd behavior, one-to-oneness and find inverse functions; determine real and complex roots of polynomials; solve systems of linear and non-linear equations/inequalities (up to 3-variable) including the use of matrices; identify and graph conic sections; solve and graph exponential and logarithmic equations and functions.

PREREQUISITES: Algebra II or Honors Algebra II with a "C" or higher.

CREDIT: 1 Unit.

***PRE-CALCULUS/TRIGONOMETRY Full Year Grades 11-12**

Pre-Calculus is offered for the students who desire to enhance their study of mathematics. The course is needed for the students who wish to continue their education beyond high school in those fields that require a solid background in mathematics. The course will develop the student's mathematical concepts, improve logical thinking, and help to promote success in high school College Credit Calculus. Students will study relations, functions, graphs, trigonometry, complex numbers, limits, derivatives, integrals, sequences, series, exponential, and logarithmic functions. The student will analyze and graph mathematical function. There is an emphasis on verification of trigonometric identities using the basic trigonometric identities. Students will use graphing calculators in activities that are appropriate to the topics being studied.

PREREQUISITE: Algebra I and II with a "C" or higher,

CREDIT: 1 Unit, WEIGHTED: 1

***AP CALCULUS AB Full Year Grade 11-12**

This course will help the students develop an understanding of the concepts and applications of calculus. Students will work with functions numerically, graphically, and analytically and will then be required to justify or explain their results with words. Technology will be used to help solve problems, experiment, and interpret results. To ensure that students do not become dependent on calculators, some assessments will allow the use of a calculator and some will not. Students will learn how to model situations with functions, derivatives, and integrals, and learn how they are all inter-related. Students will gain an appreciation of the wonders of calculus.

PREREQUISITE: Teacher Recommendation and Pre-Calculus with a "B" or higher.

CREDIT: 1 Unit, WEIGHTED: 1

Elective Courses:**COLLEGE READINESS MATH SEMESTER 10-11 Grades**

Test Preparation courses provide students with activities in analytical thinking and with the skills and strategies associated with standardized test taking (such as the PSAT, SAT, and ACT). Topics covered include strategies for arithmetic, algebra, geometry, and quantitative comparison problems as well as time management, scoring procedures and calculator usage.

PREREQUISITE: Algebra I or Algebra B or Intermediate Algebra with a "C" or higher and concurrent with Algebra II or College Algebra,

CREDIT: 0.5 Unit

AP CALCULUS BC Full Year 11-12 Grades

AP Calculus BC is an introductory college-level calculus course. Students cultivate their understanding of differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically, and verbally and using definitions and theorems to build arguments and justify conclusions as they explore concepts like change, limits, and the analysis of functions.

PREREQUISITE: Teacher Recommendation and Pre-Calculus with a "B" or higher.

CREDIT: 1 Unit, WEIGHTED: 1

AP STATISTICS Full Year 11-12 Grades

AP Statistics is an introductory college-level statistics course that introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students cultivate their understanding of statistics using technology, investigations, problem solving, and writing as they explore concepts like variation and distribution; patterns and uncertainty; and data-based predictions, decisions, and conclusions.

PREREQUISITE: Teacher Recommendation and Pre-Calculus with a "B" or higher.

CREDIT: 1 Unit, WEIGHTED: 1

Science Flow Chart

SEQUENCE 1		
9 th Grade	Earth and Space Science	
10 th Grade	Life Science	
11 th Grade	Genetics and Evolution	
12 th Grade	Chemistry	

SEQUENCE 2		
9 th Grade	Chemistry	
10 th Grade	Biology	
11 th Grade	Physics	Engineering
12 th Grade	Human Physiology & Anatomy	AP Biology

SEQUENCE 3		
9 th Grade	H Chemistry	
10 th Grade	H Biology	
11 th Grade	H Physics	Engineering
12 th Grade	Human Physiology & Anatomy-Dual Credit	AP Biology

Science Program

CHEMISTRY Full Year Grade 9

Chemistry courses involve studying the composition, properties, and reactions of substances. These courses typically explore such concepts as the behaviors of solids, liquids, and gasses; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas and equations and nuclear reactions are also studied.

PREREQUISITES: Physical Science, Grade level performance in Science, ELA, and Math

CREDIT: 1 Unit

***HONOR CHEMISTRY Full Year Grades 9**

This course is designed for the student who anticipates a science based career, desires an accelerated, comprehensive program and intends to take advanced courses in science. Instruction will emphasize laboratory investigations, independent research, and analysis. The amount of homework will be approximately five hours per week.

PREREQUISITES: Honors level Science, ELA, and Math

CREDIT: 1 Unit

EARTH AND SPACE SCIENCE Full Year Grades 9

This course provides a background in space, Earth, and Earth systems. Instruction will emphasize laboratory investigations, independent research, and analysis. The amount of homework will be approximately five hours per week.

CREDIT: 1 Unit

BIOLOGY Full Year Grades 10

Biology provides a background in the areas of methods of science, ecology, ecosystems, biodiversity and conservation, cells, cellular energy, cellular reproduction, sexual reproduction, genetics, inheritance, evolution, primate evolution, classification, and animal systems. Regular homework and long-term assignments are expected. *This course includes a state required End of Course Exam. Students must pass Biology I to take another science class or must take Biology 1 again while concurrently taking another science class. Course to be taken sequentially or concurrently if not mastered during the first attempt at taking the course.

PREREQUISITES: Grade level performance in Science, ELA and Math

CREDIT: 1 Unit

***HONORS BIOLOGY 1 Full Year Grade 10**

This two-semester class is a challenging course designed for students who anticipate a science-based career, desire an accelerated, comprehensive program and intend to continue in advanced courses in science. Instruction will include laboratory investigations, and independent research and analysis. The level of difficulty is hard. The amount of homework will be approximately five hours per week. *This course is included in the state required End of Course Exams. Students must pass Biology to take another science class or must take Biology 1 again while concurrently taking another science class.

PREREQUISITE: GPA 3.2 or Teacher Recommendation

CREDIT: 1 Unit, WEIGHTED: 1

LIFE SCIENCE 1 Full Year Grade 10

Life Science provides an introduction to ecology, ecosystems, biodiversity and conservation, cells, cellular energy, cellular reproduction, sexual reproduction, genetics, inheritance, evolution, primate evolution, classification, and animal systems. Regular homework and long-term assignments are expected. *This course includes a state required End of Course Exam. Students must pass Life Science to take another science class and must take Biology. Course to be taken sequentially or concurrently if not mastered during the first attempt at taking the course.

CREDIT: 1 Unit, WEIGHTED: 1

GENETICS AND EVOLUTION Full Year Grades 11

Genetics and evolution explores concepts in evolution and natural selection through the influences of genetics, interactions between populations, mutations, and the role of the environment. The role of common ancestry and evolutionary relationships is explored through molecular evidence, fossil records, and anatomical similarities.

CREDIT: 1 Unit

PHYSICS Full Year Grades 11-12

Physics courses involve the study of the forces and laws of nature affecting matter, such as equilibrium, motion, momentum, and the relationships between matter and energy. The study of physics includes examination of sound, light, and magnetic and electric phenomena.

PREREQUISITE: Algebra 1 or concurrent with Intermediate Algebra

CREDIT: 1 Unit

AP / HONORS PHYSICS Full Year Grades 11-12

AP Physics prepares students for college-level physics courses. It studies vectors, kinematics, Newton's laws of motion, work, energy, power, linear momentum, Newton's law of gravitation, oscillations, fluid mechanics, thermal physics, electric forces and fields, electric potential and capacitance, electric circuits, magnetic forces and fields, electromagnetic induction, waves, optics, and atomic and nuclear physics.

PREREQUISITE: GPA 3.2, Algebra 1 with C or higher

CREDIT: 1 Unit, WEIGHTED: 1

CHEMISTRY Full Year Grades 11-12

Chemistry is the equivalent of the general chemistry course usually taken during the first college year. For some students, this course enables them to undertake, in their first college year, second-year work in the chemistry sequence at their institution or to register in courses in other fields where general chemistry is a prerequisite. For other students, the AP Chemistry course fulfills the laboratory science requirement and frees time for other courses.

PREREQUISITE: Algebra 1 or concurrent with Intermediate Algebra

CREDIT: 1 Unit, WEIGHTED: 1

AP/ DUAL CREDIT BIOLOGY Full Year Grades 11-12

AP Biology is the equivalent of a college introductory biology course, usually taken by biology majors during their first year. It differs significantly from the usual high school biology course with respect to the kind of textbook used, the range and depth of topics covered, and the time and effort required of students. AP Biology provides students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. The goal of a college introductory biology course, and therefore of an AP Biology course, is to provide a learning environment that enables students to develop a solid understanding of the principal concepts in biology.

CREDIT: 1 Unit, WEIGHTED: 1

ANATOMY AND PHYSIOLOGY (DUAL CREDIT) Full Year Grades 11-12

Anatomy and physiology is a course that will enable students to develop an understanding of the relationships between the structures and functions of the human body. Students will also learn the mechanisms for maintaining homeostasis within the human body. This course will involve laboratory activities, projects, dissections, textbook material, models, diagrams, journal writings, and clinical studies.

CREDIT: 1 Unit, WEIGHTED: 1

INTRODUCTION TO ENGINEERING (DUAL CREDIT) Full Year Grades 11-12

Introduction to Engineering Design (IED) is a high school level course that is appropriate for students who are interested in design and engineering. The major focus of the IED course is to expose students to design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. IED gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based (APPB) learning. Used in combination with a teaming approach, APPB-learning challenges students to continually hone their interpersonal skills, creative abilities and understanding of the design process. It also allows students to develop strategies to enable and direct their own learning, which is the ultimate goal of education.

PREREQUISITE: Algebra 1 with C or higher, ELA with C or higher,

CREDIT: 1 Unit, WEIGHTED: 1

COLLEGE READINESS SCIENCE: SEMESTER 10-11 Grades

College Readiness relies heavily on ACT's college readiness standards and the CCSS College and Career Readiness standards to prepare upper-level students for college coursework

CREDIT: 0.5 Unit

Social Studies Flow Chart

SEQUENCE 1			SEQUENCE 2		
9 th Grade	World History		9 th Grade	World History	
10 th Grade	US History		10 th Grade	US History	P. Finance
11 th Grade	Government	P. Finance	11 th Grade	Government	AP Government
12 th Grade	Psychology	Current Events	12 th Grade	AP US History	AP Psychology

Social Studies Program

WORLD HISTORY & GEOGRAPHY (Graduation Requirement): Full year 9 Grade

World History focuses on world events from the 15th century Age of Enlightenment to the Cold War of the 20th century. The goal for this course is to gain a comprehensive understanding of major world events and the related impact on the development of global connections. Writing, both formal and informal, is a strong component of this course. The importance of the primary sources and historical thinking is integrated throughout the curriculum.

PREREQUISITE: None

CREDIT: 1 Unit

***Honors WORLD HISTORY & GEOGRAPHY: Full year 9 Grade**

This course is designed to encourage reading and applying the steps of higher level thinking skills in addition to utilizing technology and research to create projects. World History focuses on world events from the 15th century Age of Enlightenment to the Cold War of the 20th century. The goal for this course is to gain a comprehensive understanding of major world events and the related impact on the development of global connections. Writing, both formal and informal, is a strong component of this course. The importance of the primary sources and historical thinking is integrated throughout the curriculum.

PREREQUISITE: "B" or higher in 8th grade social studies and Language Arts or teacher recommendation

CREDIT: 1 Unit

U.S HISTORY (Graduation Requirement): Full Year Grade 10

U.S. History focuses on the development of the United States, including 19th century Reconstruction after the Civil War into the Cold War, and concludes with the current century. Goals for this course are to gain an understanding of the connections between the United States and the rest of the world and the events that have shaped the country, as well as to develop a knowledge and appreciation of cultures. Students learn note-taking, studying, writing, group cooperation, and higher-level thinking skills through this course. Instructional methods include lectures, small group work, class discussion, primary source documents, and audio/video supplementation to increase students' learning experiences. (This course is available to sophomores who have passed World History.)

PREREQUISITE: World History

CREDIT: 1 Unit

***Honors U.S HISTORY Full Year Grade 10**

U.S. History focuses on the development of the United States, including 19th century Reconstruction after the Civil War into the Cold War, and concludes with the current century. Goals for this course are to gain an understanding of the connections between the United States and the rest of the world and the events that have shaped the country, as well as to develop a knowledge and appreciation of cultures. Students learn note-taking, studying, writing, group cooperation, and higher-level thinking skills through this course. Instructional methods include lectures, small group work, class discussion, primary source documents, and audio/video supplementation to increase students' learning experiences. Honors classes have a faster pace and go further in depth in content. Advanced reading and writing skills are taught and practiced throughout the year.

CREDIT: 1 Unit, WEIGHTED: 1

U.S GOVERNMENT (Graduation Requirement): Full Year Grade 11

U.S Government focuses on political science, helping students gain an understanding of what government is and why it's necessary. The course focuses on how the government has changed over time, how it's organized, and how it deals with issues facing our society today. Students learn how to participate in the democratic process through various means of instruction, including possible site learning opportunities at the local, state, and national levels of government, participation in the election process, analysis of Supreme Court cases, and interactions with legislators. Students refine basic skills, such as note-taking, researching, organizing, studying, participating in class discussions, analyzing primary source documents, and working within a group. (This course is available to juniors who have passed American History and seniors.)

PREREQUISITE: None

CREDIT: 1

***Honors U.S GOVERNMENT: Full Year Grade 11**

U.S. Government—Comprehensive courses provide an overview of the structure and functions of the U.S. government and political institutions and examine constitutional principles, the concepts of rights and responsibilities, the role of political parties and interest groups, and the importance of civic participation in the democratic process. These courses may examine the structure and function of state and local governments and may cover certain economic and legal topics.

CREDIT: 1, WEIGHTED: 1

PSYCHOLOGY: HALF YEAR Grade 11-12

Psychology is a semester-long course that investigates the way people think and behave. Throughout the semester, students learn the basic principles of psychology—including an introduction to the history and fields of psychology, psychobiology, development, sensation and perception, sleep and consciousness, learning, memory, language and intelligence, motivation, emotion, personality, adjustment and health, disorders, therapy, and social psychology. The class utilizes various instructional methods, such as lectures, guided lectures, cooperative learning activities, discussions, and research studies.

CREDIT: 0.5, WEIGHTED: 1

AP WORLD HISTORY: Modern Full Year Grade 10-12

AP World History provides students with the analytic skills and factual knowledge necessary to deal critically with problems and materials in world 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 learn to assess historical materials—their relevance to a given interpretive problem, reliability, and importance—and weigh the evidence and interpretations presented in historical scholarship.

PREREQUISITE: None

CREDIT: 1 Unit, WEIGHTED: 1

AP U.S HISTORY Full Year Grade 11-12

AP U.S History provides students with the analytical skills and factual knowledge necessary to deal critically with problems and materials in U.S. history. This program prepares students for intermediate and advanced college courses. Students learn to assess historical materials—their relevance to a given interpretive problem, reliability, and importance. This course develops the skills necessary to arrive at conclusions on the basis of an informed judgment.

PREREQUISITE: None

CREDIT: 1 Unit, WEIGHTED: 1

AP Psychology Full Year Grade 10 - 12

Explore the ideas, theories, and methods of the scientific study of behavior and mental processes. You'll examine the concepts of psychology through reading and discussion and you'll analyze data from psychological research studies. Course is designed to prepare students for intermediate and advanced college courses.

PREREQUISITE: None

CREDIT: 1

AP US Government and Politics Full Year Grade 11 - 12

Study the key concepts and institutions of the political system and culture of the United States. You'll read, analyze, and discuss the U.S. Constitution and other documents as well as complete a research or applied civics project. Course is designed to help prepare students for intermediate and advanced college courses.

PREREQUISITE: None

CREDIT: 1

PERSONAL FINANCE (Graduation Requirement): Semester Grades 10-12

This course applies money and economic concepts to the development of personal financial goals. Skills in money management deal with the study of basic concepts of economics, insurance, spending, credit, savings, investments, and budgeting—skills needed for productive citizenship. The course may also cover financial matters such as opportunity costs, taxes, income, employee benefits, and consumer protection.

PREREQUISITE: Must be in the 10th grade with a minimum of 6 credits or 11th & 12th grades.

CREDIT: 0.5 Unit

WORLD RELIGIONS: SEMESTER 10-11 Grades

World Religions course will examine religion through a historical, social, political, and economic lens. Students will understand the connection between religion and society, and the many ways these two ideas are intertwined.

CREDIT: 0.5 Unit

CURRENT EVENTS: SEMESTER 10-11 Grades

This course will use current events that focus on world and local issues that affect students' everyday lives, such as economics, government, and conflict. Students will use newspapers, online media, cartoons, and newscasts to support class discussion.

CREDIT: 0.5 Unit

FILM & CINEMA STUDIES: - Full Year Course 10-12

Storytelling is the most common way that we communicate to one another. Stories told with film have a tremendous influence on our attitudes and perceptions of the world around us. In fact, films may be one of the most powerful tools in modern culture for shaping values and conveying information. By viewing, studying, discussing and writing about film, students develop and demonstrate skills in technological, cultural, and media literacy, as well as critical thinking and problem solving - skills that will serve them well in the real world.

CREDIT: 1 Unit

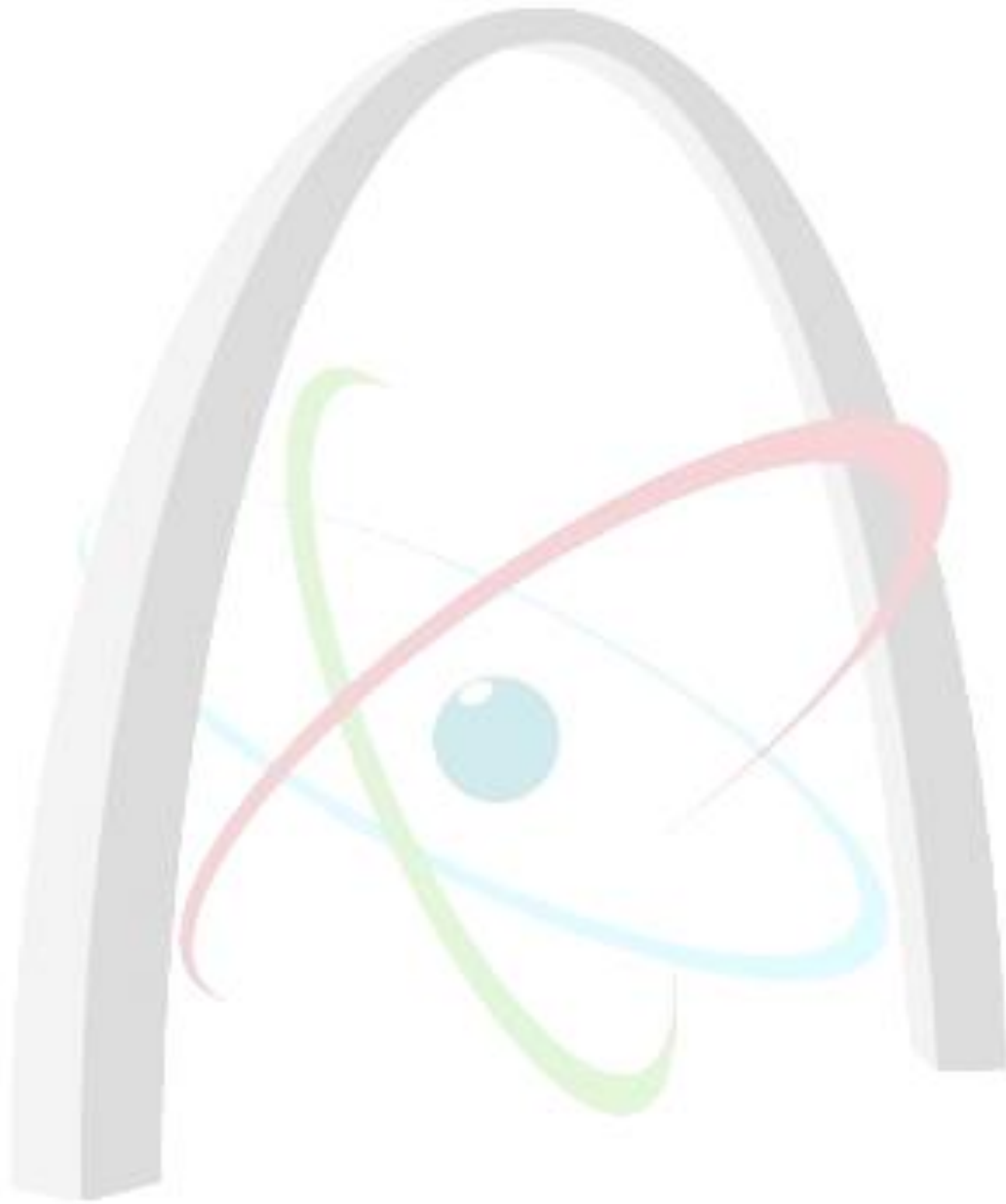
MYTHOLOGY: SEMESTER 10-12 Grades

Mighty heroes. Angry gods and goddesses. Cunning animals. Mythology and folklore have been used since the first people gathered around the fire as a way to make sense of humankind and our world. This course focuses on the many myths and legends woven into cultures around the world. Starting with an overview of mythology and the many kinds of folklore, the student will journey with ancient heroes as they slay dragons and outwit the gods, follow fearless warrior women into battle and watch as clever animals outwit those stronger than themselves. They will explore the universality and social significance of myths and folklore, and see how they are still used to shape society today.

INTRODUCTION TO PHILOSOPHY -

SEMESTER 10-12 Grades

A challenging elective course that examines the foundations of logic, ethics and epistemology in the classical tradition. Primary sources from the classical world, particularly Greece, constitute the main emphasis of reading and discussion along with significant works by modern authors. A high degree of competence and confidence in reading and writing is encouraged



Elective Flow Chart

9 th Grade	Spanish
10 th Grade	Spanish
11 th Grade	Spanish
12 th Grade	AP Spanish

9 th Grade	2D Art: Drawing & Painting (Introductory Class- Year 1 or 2)
10 th Grade	3D Art: Sculpture (Introductory Class- Year 1 or 2)
11 th Grade	Advanced Drawing & Painting: Artistic Strategies (Year 2 or 3)
12 th Grade	AP Studio Art (Year 4)

9 th Grade	Chamber Orchestra I
10 th Grade	Chamber Orchestra II
11 th Grade	Chamber Orchestra III
12 th Grade	Chamber Orchestra IV or College Prep Orchestra
10 th -12 th	Music Appreciation

9 th Grade	General Band
10 th Grade	Concert Band
11 th Grade	Advanced Band
12 th Grade	Symphonic Band
10 th -12 th	Modern Music Appreciation

* Students may take higher grade level elective courses depending on their background in the specific elective area.

FOREIGN LANGUAGE:

SPANISH I Full Year Grades 9-12

Spanish 1 is a course designed for the student who desires to complete at least two years of a foreign language, a plan recommended by many colleges and required by others. By learning the language of a country, students consequently develop an awareness and tolerance for other cultures, their histories, art and literature. Learning a second language has its practical rewards in helping the student to facilitate communication in the future in possibly business and travel. Spanish 1 blends oral and written work in developing a basic command of the vocabulary, grammar, and syntax of the language. Spanish 1 contains instruction in listening comprehension, speaking, reading, translating, and writing. Students will acquire an elementary knowledge of the principles of pronunciation, spelling, and structure of the language, grammar, and vocabulary. Some time is devoted to geography and culture of the Spanish-speaking countries as related to each unit. Students will learn to formulate questions and answers on a variety of topics pertaining to everyday matters.

PREREQUISITE: This course is not for native speakers.

CREDIT: 1 Unit

SPANISH II Full Year

Spanish 2 is a continuation of Spanish 2 containing additional vocabulary and more complex sentence structure and grammar concepts in both present and past tenses. Students will expand their comprehension of spoken Spanish, and be able to produce simple conversations in writing the language. Students will read short Spanish stories from selected literature, while continuing to study Spanish geography and culture.

PREREQUISITE: Successful completion of Spanish 1. An assessment will be given for placement recommendation.

CREDIT: 1.0 Unit

SPANISH III Full Year

Spanish III courses focus on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations.

PREREQUISITE: Successful completion of Spanish 1. An assessment will be given for placement recommendation.

CREDIT: 1.0 Unit

AP SPANISH: LANGUAGE & CULTURE Full Year

The integrated study of art, history, film, literature, and music in AP Spanish promotes cultural knowledge and understanding as well as the further development of language skills. Students experience the culture of the Spanish language firsthand by harnessing technology and, at times even interacting with native speakers, and exploring cultural texts. They are challenged to use increasingly sophisticated vocabulary and grammatical structures in a variety of contexts as they tackle listening speaking, reading and writing tasks featuring authentic literature, film, and topics of contemporary interest and concern. Student performance events may take the form of multimedia presentations. Ultimately, students in AP Spanish will understand clearly that they are members of a diverse and increasingly global society. College credit may be available for this course. Check with your instructor.

PREREQUISITE: Successful completion of Spanish 3.

CREDIT: 1 Unit, WEIGHTED: 1

PHYSICAL EDUCATION AND HEALTH

ALL PHYSICAL EDUCATION COURSES ARE CO-ED

HEALTH EDUCATION Semester Grades 9-12

(Graduation Requirement)

This course is designed to meet the needs of today's student in typical areas of concern including topics such as: communicable diseases, substance abuse, nutrition, lifestyle and wellness, consumer health, mental health, body systems and sex education and other topics pertaining to the development and care of a healthy body.

PREREQUISITE: None

CREDIT: 1/2 Unit

PHYSICAL EDUCATION Grade 9-10

The 9th Grade Physical Education course is a combination of selected activities with emphasis on fundamentals. The activities will be of both an individual and a team nature. Physical fitness, cardiovascular, and basic fitness principles will be taught.

PREREQUISITE: None

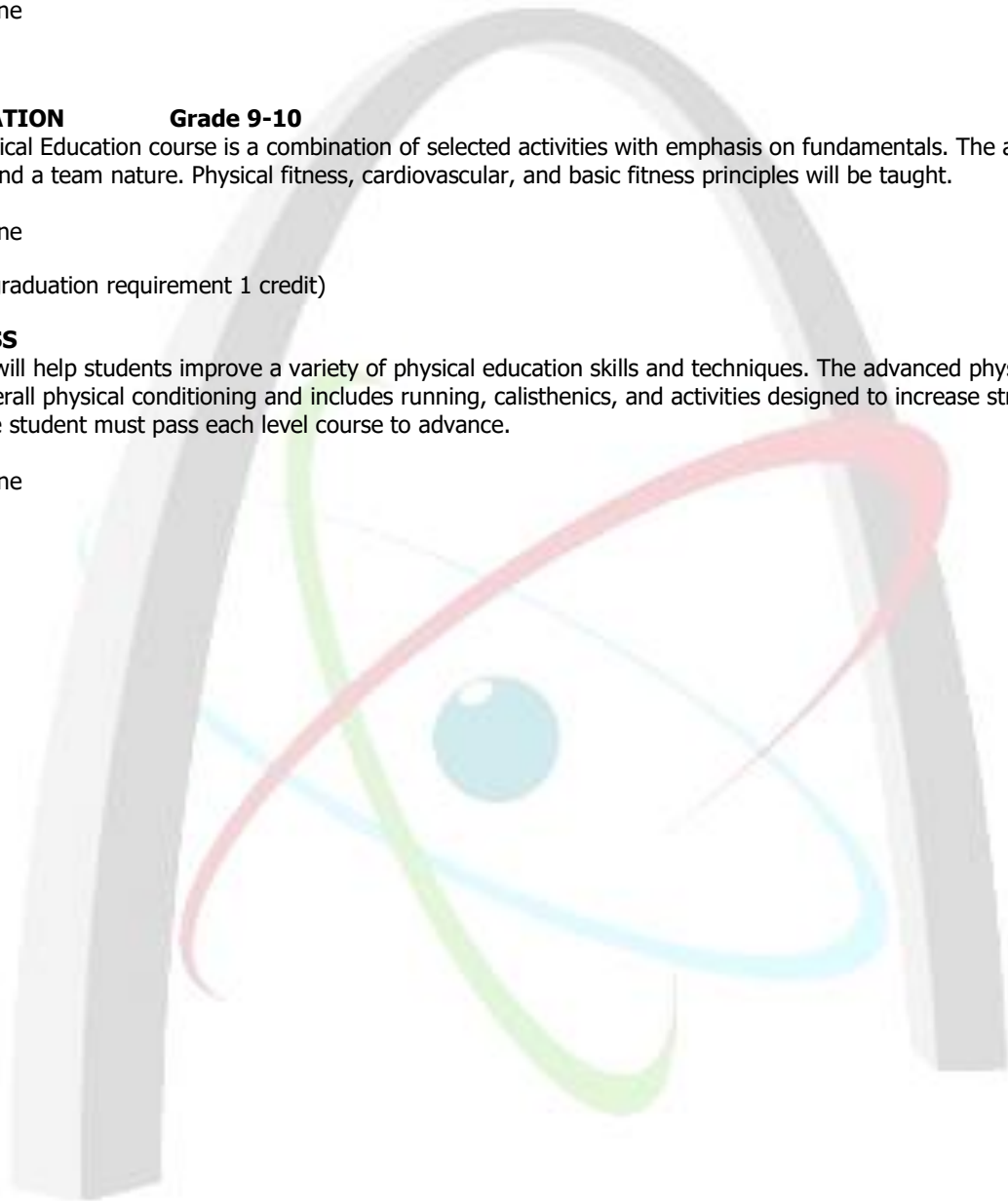
CREDIT: 0.5 Unit (graduation requirement 1 credit)

LIFETIME FITNESS

Physical Education will help students improve a variety of physical education skills and techniques. The advanced physical education courses address overall physical conditioning and includes running, calisthenics, and activities designed to increase strength, stamina, and endurance. The student must pass each level course to advance.

PREREQUISITE: None

CREDIT: 1 Unit



MUSIC DEPARTMENT

GENERAL BAND: Full year

General band is for students who wish to learn to play an instrument with an aesthetically pleased sound. No previous musical experience is necessary. This class addresses the gradual development of technical skills and good care of the band instrument, which eventually leads to the performance of simple band literature. Through the literature presented, students will develop skills in critical analysis and basic knowledge of historical band styles.

PREREQUISITE: None

CREDIT: 1 Unit

CONCERT BAND Full Year

Concert Band is designed to promote students' playing technique for brass, woodwind, and percussion instruments, and cover a variety of music styles primarily for concert performances. Course covers the structures, humanities, purposes, processes, and interrelationships of the arts as they apply to music.

PREREQUISITE: Beginning band middle or high school

CREDIT: 1 Unit Two semesters (Fine arts)

ADVANCED BAND Grade 11

Available to all High School Band students with an interest in playing advanced music and preparing for college auditions.

PREREQUISITE: General Band

CREDIT: 1 Unit

SYMPHONIC BAND

Available to all High School Band students with an interest in playing advanced music and preparing for college auditions.

PREREQUISITE: Advanced Band

CREDIT: 1 Unit

MODERN MUSIC APPRECIATION

This course is for non-musician students as an elective option. Students will spend one semester studying the first 100 years on sound/music in film. The other semester will be beginning guitar. Students learn the basics about the instrument and learn entry to perform entry level songs.

CREDIT: 1 Unit

MUSIC APPRECIATION Grades 10-12

This course is a non-performance –oriented class, designed to provide students with information and experiences that will deepen their understanding and appreciation of all types of music. The fundamentals, history, aesthetics, and critical analysis of music will be presented through the mediums of recordings, videos, class activities, and lectures.

PREREQUISITE: None

CREDIT: 1 Unit

CHAMBER ORCHESTRA I, II, III, IV Full year 9-11

Orchestra courses are designed to develop students' abilities to play string instruments, covering a variety of string and orchestral literature styles.

PREREQUISITE: 1-2 years of experience.

CREDIT: 1 Unit

COLLEGE PREP ORCHESTRA Grades 9-12

High-level strings preparing for college majors or minors, competitive solo/ensemble work, must audition or get permission from teacher.

CREDIT: 1 Unit

AP MUSIC THEORY

1st year college music theory, sight-singing/ear-training, rhythmic/melodic dictation, prior music knowledge is required.

CREDIT: 1 Unit, WEIGHTED 1

ART DEPARTMENT

2D Art: Drawing & Painting (Introductory Class- Year 1 or 2)

Course Credits: Full year, Prerequisites: None, Description: 2D Art: Drawing and Painting is an introductory course in which students develop technical skills in the use of drawing and painting media. They create original two-dimensional artworks based upon the themes of observation, expressive figure/portrait, architecture, landscape, still life, and personal communication of an idea. Work will be inspired by the study of famous artists and artistic movements.

CREDIT: 1 Unit

3D Art: Sculpture (Introductory Class- Year 1 or 2)

Course Credits: One Semester or Full Year, Prerequisites: None, Description: 3D Art: Sculpture students develop technical skills in the use of various media such as plaster, clay, paper, wire, and found objects. They create original, three-dimensional artworks using modeling, carving, assemblage, and casting methods. Students work with the following themes: observation, the human figure, personal expression, and public sculpture. Work will be inspired by the study of famous artists and artistic movements.

CREDIT: 1 Unit

Advanced Drawing & Painting: Artistic Strategies (Year 2 or 3)

Course Credits: Full Year, Prerequisites: A grade of C or better in 2D Art: Drawing & Painting, Description: Advanced Artistic Strategies students develop advanced drawing and painting techniques to create original two-dimensional artworks. Special attention will be paid to create a sense of refinement and finishing to their art. They express themselves through the themes of observation, expressive painting, figure, landscape/cityscape, and portrait.

CREDIT: 1 Unit

AP Studio Art (Year 4)

Course Credits: Full year, Prerequisites: To be best prepared for the rigor of this course, students should have successfully completed two full years/four semesters of high school art. A grade of A or B is recommended in previous art courses. Students who do not meet the above requirement may request permission to enroll from the teacher. Description: The Advanced Placement Studio program engages motivated students in college entry-level work in studio art. During the course, students produce a portfolio of work that can be submitted to the College Board at the end of the year for AP credit. Some colleges also require portfolio work for admission and/or competitive scholarships. Through teacher-directed assignments, students will use a range of approaches to create original artwork that demonstrates technical skills in a wide range of media through a variety of themes. They also complete a sustained investigation that consists of a body of work around a student-selected theme. Reflective writing is a significant part of the student's portfolio.

CREDIT: 1 Unit

WEIGHTED: 1

TECHNOLOGY EDUCATION DEPARTMENT

Computer Science Essentials – PLTW Full Year Grades 9-12

Collaborate to create mobile apps. Solve problems and create value for others through innovation and creativity. Explore how innovations in computing impact and connect our world. With a gentle introduction to programming, you will learn how to put your designs into practice.

Prerequisite: None

CREDIT: 1 Unit, WEIGHTED: 1.0

Computer Science A – PLTW Full Year Grades 9-12

Fundamental topics in this course include the design and development of solutions that use control-structures, data structures, and object-oriented programming using the Java programming language, the analysis of potential solutions, and the ethical and social implications of computing systems. Prerequisite: Experienced on block based coding and want to be move on the next level text based programing.

Prerequisite: None

CREDIT: 1 Unit, WEIGHTED: 1.0

WEB DESIGN Semester Grades 9-12

Web Design courses teach students how to design web sites by introducing them to and refining their knowledge of site planning, page layout, graphic design, and the use of markup languages – such as Extensible Hypertext Markup, JavaScript, Dynamic HTML, and Document Object Model-to develop and maintain a web page. These courses may also cover security and privacy issues, copyright infringement, trademarks, and other legal issues relating to the use of the Internet. Advanced topics may include the use of forms and scripts for database access, transfer methods, and networking fundamentals.

PREREQUISITE: None

CREDIT: 0.5 Unit

INTRO TO CODING Semester Grades 9-12

Web Design courses teach students how to design web sites by introducing them to and refining their knowledge of site planning, page layout, graphic design, and the use of markup languages – such as Extensible Hypertext Markup, JavaScript, Dynamic HTML, and Document Object Model-to develop and maintain a web page. These courses may also cover security and privacy issues, copyright infringement, trademarks, and other legal issues relating to the use of the Internet. Advanced topics may include the use of forms and scripts for database access, transfer methods, and networking fundamentals.

PREREQUISITE: None

CREDIT: 0.5 Unit

MICROSOFT OFFICE Full Year Grades 9-12

Introduction to Computer courses introduce students to computers and peripheral devices, the functions and uses of computers, the language used in the computer industry, possible applications of computers, and occupations related to computer hardware and software. These courses typically explore legal and ethical issues associated with computer use, as well as how computers influence modern society. Students may also be required to perform some computer operations.

PREREQUISITE: None

CREDIT: 1 Unit

INTRO TO DESKTOP PUBLISHING-CTE Semester Grades 9-12

Desktop Publishing is a term used to describe an exciting development in computer applications that combines a computer, software, a scanner, a digital camera, the Internet, a laser printer, and a color printer into a standalone publishing system. This course will begin with a brief explanation of the publishing and printing process—the terminology, the history, the jobs, the hardware and the software. Desktop Publishing will be introduced as an application of computer technology to an old, established process. Elements of attractive page layout, color and design will be stressed. Desktop Publishing software will be used to develop a set of publishing projects that begin with simple drawings, announcements and magazine covers and increase in complexity to multi-page documents such as menus, newsletters, tri-fold brochures, a business proposal and a school newspaper.

PREREQUISITE: None CREDIT: 0.5 Unit