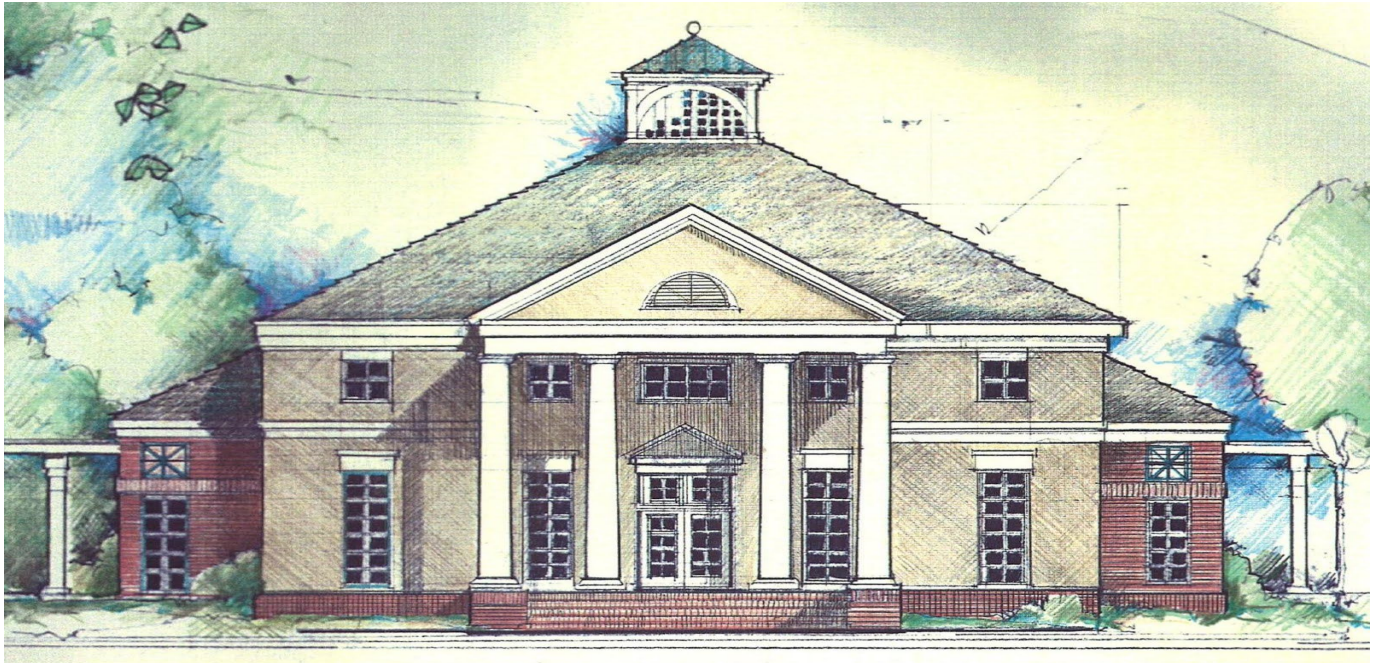


Saint James School

High School Course of Study

2020-2021



Courtesy of Barganier Davis Sims Architects Associated

Saint James is an independent, nonsectarian, college preparatory school, with a student body broadly representative of college-bound students. We are committed to challenging and assisting students in realizing their individual potential and preparing them for lives of responsibility, service, and achievement.

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FOREWORD

This course of study describes the Saint James High School educational program. Our educational program provides students opportunities to develop the skills, self-confidence, maturity, and knowledge that they will need as they enter college, and which will permit them to be effective and responsible members of society. Our students' academic abilities range from average to gifted among the college-bound population. We wish to prepare students to choose and succeed at the post-secondary institution that best challenges and suits them. For this reason, the course of study offers options to challenge students across their spectrum of academic abilities. This publication is intended to assist parents and students in course selection.

COURSE REQUIREMENTS FOR GRADUATION

Saint James offers many courses in grades nine through twelve. Students must work closely with their parents and the guidance counselors in selecting courses. The core academic subjects must take precedence over any electives during the course selection process.

One of two diplomas may be earned, General or Honors. The course requirements for these diplomas are listed below. Students wishing to attend more selective colleges or universities should consider additional courses in mathematics, science, and world languages. All students are encouraged to take challenging courses to meet their intellectual abilities. By following this principle, Saint James students are prepared for a rigorous college educational program.

GENERAL COURSE REQUIREMENTS

The student must pass 25 Carnegie units*

All courses are year-long. Students will not be allowed to drop a course mid-year. Semester credits of differing classes cannot be combined to equal one full credit in any core or elective area.

Required:

English	4
Mathematics**	4
Social Studies	4
Science.....	4
World Language	2
<i>Two consecutive levels of the same world language</i>	
Fine Arts.	1
Physical Education or Approved Substitute***	1
21st Century Technology.....	1
Electives.....	4

***Students must take a minimum of one math, science, English, and history course each year.**

**Minimum of Algebra 1, Geometry, Algebra 2, and Algebra 3 & Trigonometry.

***The approved substitutes for the Physical Education and Fine Arts credits required for graduation are as follows: Enrollment and participation in the fall marching band component of the Instrumental Music course for two semesters. Students may substitute 1/2 credit for each semester of marching band toward meeting the Physical Education Requirement. Students must participate in fall marching band two years in order to earn the full Physical Education credit required. Students taking only one year of marching band must take a full year of physical education to be granted physical education credit. Two spring concert band semesters count toward meeting the fine arts requirement. Students taking only one year of concert band must take a full year of a fine arts class to be granted a fine arts credit. Students may also take one year of cheerleading, athletic weight training, or dance team to satisfy the Physical Education requirement.

HONORS DIPLOMA REQUIREMENTS

1. The student must earn a minimum of 27 Carnegie units of high school credit.
2. The student must have a weighted grade point average of 3.80 or better. Honors courses are given 0.5 additional quality point in the calculation of grade point averages. College Board Advanced Placement (AP) courses are given one additional quality point in the calculation of grade point averages.
3. The student must receive high school credit for three different levels of the same world language.
4. The student must receive high school credit for a minimum of four of the following science courses:
Physical Science, Honors Biology or Biology (one of these courses is required), Honors Chemistry, Physics, AP Biology, AP Chemistry, AP Physics, and Anatomy and Physiology
5. The student must complete a minimum of 6 semesters of Advanced Placement courses in high school. In order to receive AP credit toward an Honors Diploma, a student must successfully complete both semesters of any course designated as a year-long course by the College Board. The only semester AP classes offered by Saint James are US Government & Politics and Macroeconomics. **These Advanced Placement courses must be selected from a minimum of two different subject areas in order to satisfy Honors Diploma requirements.** (For Example: Art and Math, Math and Science, Science and English, History and English)
6. Transfer students are eligible for an Honors Diploma only if they complete four semesters (two academic years) at Saint James and satisfy all other Honors Diploma Requirements.
7. The student must complete 8 hours of documented community service during each year he or she attends Saint James in grades 9-12. In order to count towards the Honors Diploma requirement, all hours must be accumulated through programs sponsored or approved by the principal or his designee and must be properly documented by the student.

THE COLLEGE BOARD ADVANCED PLACEMENT AND HONORS CLASS PROGRAM

Saint James offers both Honors and AP (College Board Advanced Placement) courses in certain curriculum areas. Honors classes are available to high school students who meet class and grade prerequisites. These classes are more challenging and require more independent effort and thought on the part of students. AP (College Board Advanced Placement) courses are open to students in 9th-12th grades who have demonstrated the ability to succeed in courses taught at the academic level of freshman courses in selective colleges. The number of students admitted to Honors classes and AP (College Board Advanced Placement) classes is limited and will be based on academic achievement, student interest and motivation, and teacher recommendation. Standards for eligibility vary from course to course. Students who are interested in Honors or AP (College Board Advanced Placement) courses should check all the prerequisites which appear with the course descriptions in this Course of Study. To determine final eligibility, class instructors may ask current teachers for additional information and/or recommendations for students who requested these classes. **In the event that the number of requests of qualified students exceeds space available, placement may be based on a combination of recommendation and the highest numerical averages.** Honors courses are given 0.5 additional quality point in the calculation of grade point averages. Advanced Placement courses are given one additional quality point in the calculation of grade point averages. Students who take an AP (College Board Advanced Placement) course are required to take the appropriate College Board Advanced Placement Examination. **Parents will be charged approximately \$100 for each Advanced Placement exam.** Many colleges award college credit to students who perform satisfactorily on this examination. Each student must negotiate his or her own credit contract with the college of choice.

AN OVERVIEW OF COURSE OFFERINGS

The last date to drop or add any class for the 2020-2021 academic year is **Friday, August 28, 2020**. Students are required to take the first major test in each core course prior to dropping the class.

Please read the course description information included in this course of study carefully to determine course content and requirements and prerequisites for individual classes. Those courses marked with an asterisk have selective enrollment based on previous coursework and/or academic performance, interview and/or application process, or instructor approval.

Required and prerequisite courses should be taken as part of the Saint James curriculum. Any deviation from this planned curriculum and academic process must have the approval of a committee consisting of the Head of School, Academic Dean, Principal, and Department Head. This committee will review and evaluate the individual circumstances. Only courses taken at Saint James may appear on the Saint James transcript and may be credited toward the student's GPA.

ENGLISH

Students must take an English course each year during high school.

Required:

Grade 9	English 9 or Honors English 9 *
Grade 10	English 10 or Honors English 10 *
Grade 11	English 11 or AP Language and Composition *
Grade 12	English 12 or AP Literature and Composition *

**Selective enrollment*

MATHEMATICS

Students must take a mathematics course each year during high school. Enrollment in specific classes is based on performance in prior courses and teacher recommendations. **Students who wish to double up on math classes or take a class other than that which was recommended by their teacher must have departmental approval in writing.**

Required Minimum for Graduation:	Algebra 1
	Geometry
	Algebra 2
	Algebra 3 & Trigonometry

High School Math Course Sequencing

The chart below details the expected math track that students will follow in high school. Exceptions to these tracks must be approved by the Mathematics Department Head and the current math teacher.

Year: 8th	9th	10th	11th	12th
Transitional Algebra →	Algebra 1 →	Geometry →	Algebra 2 →	Senior Algebra 3 & Trig.
Algebra 1* →	Geometry*** →	Algebra 2*** →	Algebra 3&Trig. →	Pre-Calculus
Adv. Algebra 1* →	Honors Geometry →	Honors Alg. 2 w/ Trig →	Honors Pre-Cal →	AP Calculus AB
Adv. Algebra 1** →	{Honors Geometry} {& Honors Alg. 2 w/ Trig}→	Honors Pre-Cal →	AP Calculus AB →	AP Calculus BC

* Students with below a 75 average either semester of Algebra 1 in 8th grade will be required to follow the Transitional Algebra track, repeating Algebra 1 in the 9th grade. Completion of Algebra 1 in 8th grade with an average of 90 or above each semester, the student may be recommended to follow the Advanced Algebra 1 track beginning with Honors Geometry in 9th grade. Students who complete Advanced Algebra 1 with an 85 average each semester are required to continue on the honors sequence with Honors Geometry in the 9th grade.

** Students who complete Advanced Algebra 1 in 8th grade with distinction and upon teacher recommendation may apply to double in math as a 9th grader taking both Honors Geometry and Honors Algebra 2 w/ Trig. These students would progress to AP Calculus BC as a senior. Students must receive written approval from the Mathematics Department to double up in math.

*** Students who complete 9th grade Geometry and 8th grade Algebra 1 with distinction may be recommended to follow the Honors sequence beginning with Honors Algebra 2 with Trig in the 10th grade.

Students who successfully complete Honors Geometry in the 9th grade with an 85 average each semester are required to take Honors Algebra 2 w/ Trig the following year.

Any 9th or 10th grade student who completes Honors Algebra 2 w/ Trig with an average of 82 or above will be required to take Honors Pre-Calculus the following year.

SOCIAL STUDIES

Students must take a Social Studies course each year during high school.

Required:

Grade 9	World History 1 or AP World History*
Grade 10	World History 2 or AP European History*
Grade 11	American History or AP United States History*
Grade 12	US Government/Economics or AP US Government & Politics*/AP Macroeconomics*

**Selective enrollment*

SCIENCE

Students must take a science course each year during high school. **Students who wish to double up on science classes must have departmental approval in writing.**

The following changes will be implemented in High School during the 2020-2021 school year effective for the graduating class of 2024:

- **9th Grade (Fall of 2020):** Students entering 9th grade will take either *Biology* or *Honors Biology*. Prerequisites will be used to determine placement. *Chemistry* or *Honors Chemistry* will be a graduation requirement for this class.
- **10th Grade (Fall of 2020)** Students who completed *Physical Science* in 9th grade during the 2019-2020 school year will take *Biology* or *Honors Biology* in 10th grade. Prerequisites will be used to determine placement. Students who completed *Biology* or *Advanced Biology* in 9th grade during the 2019-2020 school year will continue on the science track they began in 9th grade in order to meet graduation requirements and provide the best preparation for college. Prerequisites will be used to determine placement.
- **11th and 12th Grade (Fall of 2020)**—Students will continue on the science track they began in 9th grade in order to complete graduation requirements and provide the best preparation for college.*

*Please note that during the transition to the new requirements, some science courses may not be available. See additional information below.

Students who have any questions about science requirements for their graduation class should consult their counselor.

Please note that during this transition, particularly during the 2020-2021 school year when the majority of 9th and 10th grade students will be taking *Biology* or *Honors Biology*, there may be some science electives which are not offered every year or have limited space due to the number of sections available.

Required:

- | | |
|--------------|--|
| Grade 9 | Biology or Honors Biology** |
| Grade 10 | Biology or Honors Biology** (Required for all students who took Physical Science in 9 th grade) |
| Grades 10-12 | Chemistry (For students who completed Biology or Honors Biology in 9 th grade)
Honors Chemistry*(For students who completed Biology or Honors Biology in 9 th grade)
Conceptual Physics |
| Grades 11-12 | One additional science course each year from science courses listed below
Note: Environmental Science, Chemistry, and Conceptual Physics do NOT qualify for honors diploma.

Physics
Anatomy / Physiology
Environmental Science
AP Biology & Lab* (Requires 2 periods)
AP Chemistry & Lab* (Requires 2 periods)
AP Physics* |

**Selective Enrollment*

***See course description for requirements*

COMPUTER STUDIES

Required:

- | | |
|-------------|---|
| Grades 9-12 | 21st Century Technology (Recommended that students take course in 9th or 10th grade.) |
|-------------|---|

WORLD LANGUAGES

Required:

Two consecutive levels of the same world language in grades 9-12. A third level of the same world language is required for an Honors Diploma. Students must take world language classes each consecutive year until they have met their graduation or Honors diploma requirements. Students are not allowed to skip a year of world language in their scheduling sequence.

For rising 9th graders, in order to enroll in Latin 1 or Spanish 1, students must have a numerical average of 80 or above for each semester in each of the following eighth grade courses: English, Math, Science, and History.

- | | |
|-------------------|--|
| Grade 9 | Latin 1
Spanish 1 |
| Grades 10-12 | Latin 1, 2
Spanish 1, 2 |
| Electives: | |
| Grades 11-12 | Honors Latin 3*, 4*
Honors Spanish 3*, 4* |
| Grade 12 | Honors French 4* |

***Selective Enrollment**

PHYSICAL EDUCATION

Required:

Grade 9

Physical Education (*See page 2 of the Course of Study for information about substituting fall marching band for PE credit.*)

Athletic Weight Training* 9

7th Period Athletics* (*Requires Coach's Approval*) 9

Cheerleading* (*Requires Selection to Cheerleading Squad*) 9

Trojanettes Dance Team* (*Requires Selection to Dance Team*) 9

*Selective Enrollment

FINE ARTS

Electives:

Grades 9-12

Visual Art 1 (Beginning)

Theatre Arts 1

Technical Theatre 1

Choral Music 9, 10, 11, 12

High School Performance Studies 9, 10, 11, 12

Percussion 9, 10, 11, 12

Instrumental Music (Marching and Concert Band) 9, 10, 11, 12

Journalism Yearbook* 9, 10, 11, 12

Journalism Newspaper* 9, 10, 11, 12

Competitive Speech and Debate 9, 10, 11, 12

Public Speaking

Grades 10-12

Visual Art 2 (Intermediate)

Graphic Design+

AP Studio Art – Drawing & Lab* (Requires 2 periods) 10, 11, 12

AP Art History (Through MMFA)*

Photography 1

Theatre Arts 2

Technical Theatre 2

Technical Theatre Production 10, 11, 12*

Visual Storytelling

Grades 11-12

Visual Art 3 (Advanced)

AP Studio Art 2-D Design*+ 11,12

Photography 2*

AP Music Theory*

Grade 12

Visual Art 4 (Advanced)

**Selective Enrollment*

+*Pre-College Major Elective*

ADDITIONAL ELECTIVES

Grades 9-12	Robotics and Pre-Engineering*+ 9, 10, 11, 12 Survey of Sports Medicine, Physical Therapy, and Related Professions+ Lifetime Health and Wellness
Grades 10-12	AP Human Geography Programming+* AP Computer Science Principles Leadership Seminar* Athletic Weight Training* 10, 11, 12 7 th Period Athletics* (<i>Requires Coach's Approval</i>) 10, 11, 12 Cheerleading (<i>Requires Selection to Cheerleading Squad</i>) 10, 11, 12 Trojanettes Dance Team (<i>Requires Selection to Dance Team</i>) 10, 11, 12
Grades 11-12	Introduction to Philosophy and World Religion Interpersonal Relations Youth Leadership* Assistant Positions* Please note: A student can only take a total of TWO assistantships during high school. Placement into these assistantships is highly selective and always based on faculty or administrative approval, space available, conduct, attendance, and availability in the student's schedule. Student must receive final approval from the high school principal.

**Selective Enrollment*

+Pre-College Major Elective

ENGLISH

ENGLISH 9

In this course, students will read and analyze a variety of literary genres: short stories, poetry, drama, epics, novels, and prose. Students will develop and refine critical thinking and writing skills. Students will write in different modes, including argumentation/persuasion, literary analysis, comparison/contrast, and personal narrative. At least one essay will be documented in correct MLA format. Fact vs. opinion, quality of sources, understanding of MLA format, and understanding of how to navigate the Purdue OWL will be stressed in the documented essay(s). Vocabulary study will be incorporated along with literature and composition. Students will not only review grammar, punctuation, and sentence structure, but also work on developing style in writing and proofing skills.

HONORS ENGLISH 9

In the advanced level of this course, students will be required to study literature in a more in-depth manner in preparation for advanced high school English. Students will focus on developing their abilities to read, analyze, and respond critically to short stories, poetry, drama, epics, myths, novels, and prose. Students in this course will have several different and more complex novels assigned during the course of the year, and they will be expected to excel at more independent reading and analysis. Students taking this course should be proficient in writing and have a strong background in grammar and punctuation. Students will write in different modes, including argumentation/persuasion, literary analysis, comparison/contrast, and personal narrative. At least two essays will be documented in correct MLA format. Fact vs. opinion, quality of sources, understanding of MLA format, and understanding of how to navigate the Purdue OWL will be stressed in the documented essay(s). Vocabulary study will be incorporated along with literature and composition. Students will work on grammar, punctuation, sentence structure, and style as needed. Throughout the year, students will assume a greater responsibility for proofreading their essays and making revisions.

Prerequisite: Admission to the class is based on academic achievement, student interest, and teacher recommendation. In order to be eligible to sign up for this class, a student must have a 90 yearly average in the previous regular class or a 85 yearly average in the previous advanced class.

ENGLISH 10

English 10 integrates the study of world literature, grammar, vocabulary, and composition. The focus of the class is on critical reading as well as composition skills. Students will study representative works of literature and write a minimum of five major essays, including argumentation/persuasion, literary analysis, narrative, definition, and comparison/contrast. Two essays will be documented in correct MLA format. Grammar and vocabulary will be stressed through literary selections and students' writing. Throughout the year students will assume a greater responsibility for proofreading their essays and making revisions.

HONORS ENGLISH 10

A prerequisite to Honors English 10 is a proficiency in writing and a strong background in grammar and punctuation. This class integrates the study of world literature and composition with grammar and punctuation being taught through students' writings. Students will study representative works of literature and write a minimum of five essays, including argumentation/persuasion, literary analysis, narrative, definition, and comparison/contrast. Two essays will be documented according to correct MLA format. Students will also take responsibility for completing independent reading and related assignments each semester. Honors English 10 places a greater demand on students to formulate their own discussion questions and monitor their own understanding of literature. This class will also focus on the development of style in students' writing.

Prerequisite: Admission to the class is based on academic achievement, student interest, and teacher recommendation. In order to be eligible to sign up for this class, a student must have a 90 yearly average in the previous regular class or an 85 yearly average in the previous advanced class.

ENGLISH 11

English 11 uses a thematic approach to understanding the rich history of American literature. Each quarter will be dedicated to a particular theme that focuses on content of the readings for that quarter (American Dreams, Frontiers, Higher Powers, The Individual vs. Society), and each theme will have central questions that are introduced at the beginning of the quarter that will guide writing assignments. Texts for these themes are chosen from authors throughout American history, including those from Native Americans and early colonists to authors of the 21st century. Course work emphasizes critical thinking, the ability to draw connections between texts and relate them back to the themes, and writing skills that reveal a sophisticated development of English grammar and vocabulary. Composition assignments target a range of audiences and include a documented essay and literary analysis.

AP LANGUAGE AND COMPOSITION

Junior Level Course

Advanced Placement Language and Composition engages students in becoming skilled readers of prose, and it also includes a focus on the effective use of language to develop students' rhetorical skills. A thematic approach is also used for AP Language and Composition with different themes dedicated to the readings in each quarter. Critical reading and style analysis help students to become better writers as they produce more logically organized, coherent papers and to develop their own writing styles. The course requires extensive readings from a variety of authors, rhetorical modes, and genres. The course also requires a variety of writing assignments, which include essays (some documented) and analyses. The course offers practice in timed writings and other Advanced Placement questions that the students will encounter. **Parents will be charged approximately \$100 for each Advanced Placement exam.**

Prerequisite: Admission to the class is based on academic achievement, student interest, and teacher recommendation. In order to be eligible to sign up for this class, a student must have a 90 yearly average in the previous regular class or an 85 yearly average in the previous advanced class.

ENGLISH 12

This course is rooted in the study of British literature, proceeding from the Anglo Saxons to the Middle Ages, the Renaissance, the Restoration, and beyond. Interspersed among works of the canon are contemporary works—short stories, novels, and poems—from the United States and elsewhere. All literature requires critical thinking, with students producing literary analyses both in and outside the classroom. Students perform research on issues facing teenagers in the 21st century, writing documented essays. This course prepares students for the rigors of college writing, with emphasis on unity, coherence, strength in mechanics and grammar, proper MLA documentation, and economy. The first writing assignment of the year is a polished college admissions essay that satisfies the requirements of the Common Application.

AP LITERATURE AND COMPOSITION

Senior Level Course

Students in this course read extensively in four genres—poetry, drama, the novel, and short stories—pinpointing how authors manipulate readers with syntax (the schemes) and semantics (the tropes). Because the College Board expects students to connect authorial technique to meaning, this course spends a great deal of time analyzing texts from a technical standpoint. Students perform close readings on many texts and produce many literary analyses. Students also produce research-based documented essays throughout the year. We work to perfect writing, especially in economy, unity, coherence, and style. The first writing assignment of the year is a polished college admissions essay that satisfies the requirements of the Common Application. **Parents will be charged approximately \$100 for each Advanced Placement exam.**

Prerequisite: Admission to the class is based on academic achievement, student interest, and teacher recommendation. To be eligible for this class, a student must have a 90 yearly average in the previous regular class or a 85 yearly average in AP English Language and Composition.

MATHEMATICS

ALGEBRA 1

This course is a study of the structure and properties of the real number system. Linear equations, inequalities and systems are used in problem solving and graphing. Polynomials, their factors, and quadratic equations are also studied, and function notation and radical operations are introduced. Students are required to have a graphing calculator for this course.

Prerequisite:

- **Successful completion of Transitional Algebra in 8th grade.**
- **If the student completes Algebra 1 in 8th grade with an average below 75 either semester, the student will be required to repeat Algebra 1 in the 9th grade.**

GEOMETRY

This course begins with the basic concepts of point, line, and plane and then proceeds with such concepts as parallel and perpendicular lines, angles, and triangles. Students are gradually introduced to deductive reasoning. Other topics include congruency and similarity, parallelograms, special right triangles and circles. Coordinate geometry is integrated throughout the course to provide transition from geometry to algebra. Students are required to have a graphing calculator for this course.

Prerequisite:

- **For rising 10th graders, successful completion of Algebra 1.**
- **For rising 9th graders, average of 75 or above each semester in 8th grade Algebra 1.**

HONORS GEOMETRY

This course contains all the content of the Geometry course but at a faster pace. It includes more extensive use of deductive reasoning, advanced problem solving, more work with the Law of Sines and Law of Cosines, and advanced work with areas and volumes of solids. Enrichment activities and completing advanced constructions provide students with stimulating and interesting hands-on opportunities as well as insights into real world applications. Students are required to have a graphing calculator for this course.

Prerequisite:

- **Completion of Advanced Algebra 1 in 8th grade with an average of 85 or above each semester, the student will continue on track to Honors Geometry.**
- **Completion of Algebra 1 in 8th grade with a 90 or above each semester, the student will be recommended for Honors Geometry in 9th grade.**
- ***All students who successfully complete Honors Geometry in the 9th grade with an 85 average each semester are required to take Honors Algebra 2 with Trigonometry in 10th grade.**

ALGEBRA 2

This course provides strengthening and extension of the material presented in Algebra 1. Other topics presented in Algebra 2 include inequalities, functions, matrices, complex numbers, conics, polynomials, rational expressions, radicals, and logarithms. Students are required to have a graphing calculator for this course.

Prerequisite:

- **Successful completion of Algebra 1 and Geometry.**

HONORS ALGEBRA 2 with TRIGONOMETRY

This course proceeds more rapidly than the Algebra 2 course and includes inequalities, functions, matrices, complex numbers, rational expressions and functions, conics, polynomial functions, radicals, exponents, logarithms, and sequences and series. The course culminates in a survey of trigonometry. Right triangles, the unit circle, and graphing the trigonometric functions are studied. This course is intended for the student with a strong mathematics background who plans to take courses in advanced mathematics or science. Students are required to have a graphing calculator for this course.

Prerequisite:

- **Completion of Honors Geometry in the 9th grade with an average of 85 or above each semester.**
- **Students who complete 9th grade Geometry and 8th grade Algebra 1 with distinction may be recommended to follow the honors sequence beginning with Honors Algebra 2 with Trig in the 10th grade.**

*** All students who complete Honors Algebra 2 w/ Trig with an average of 82 or above each semester are required to take Honors Pre-Calculus the following year.**

HONORS PRE-CALCULUS (Sophomores and Juniors Only)

This course is designed to prepare students for a college level study of calculus in high school. In addition to all the topics presented in Pre-calculus, Honors Pre-calculus students will study sequences and series, polar graphing, graphing equations in three dimensions, and using vectors in three dimensions. The course will cover a wider variety of applications and move at a faster pace than Pre-Calculus. Students are required to have a graphing calculator for this course.

Prerequisite:

- **Completion of Honors Algebra 2 with Trigonometry with an average of 82 or above each semester and teacher recommendation.**

***All 10th grade students who complete Honors Pre-Calculus must continue on track to AP Calculus AB.**

***All 11th grade students who successfully complete Honors Pre-Calculus with a yearly average of 73 or above will continue on track to AP Calculus AB the following year.**

***All 11th grade students with a yearly average below 73 in Honors Pre-Calculus will be recommended to take Pre-Calculus as a senior.**

ALGEBRA 3 & TRIGONOMETRY (Juniors Only)

This course is designed for students who have completed Algebra 2 (no trigonometry). It is designed to review and to provide more in-depth coverage of Algebra 2 topics such as functions, conic sections, complex numbers, logarithms, and word problems. It will introduce such topics as sequences and series. A major component of this course is the study of trigonometry. The unit circle, right and oblique triangles, the Laws of Sines and Cosines, and identities are studied. Also included are solving trigonometric equations and graphing the functions and their inverses. Students are required to have a graphing calculator for this course. This course is similar to Senior Algebra 3 & Trigonometry, but will be a more in depth study of the topics. This course helps prepares students for Pre-Calculus their senior year.

Prerequisite:

- Successful completion of Algebra 2.**

-**Completion of Honors Algebra 2 with Trig as a 10th graders with an average below 82 either semester.**

SENIOR ALGEBRA 3 & TRIGONOMETRY

(Seniors only)

This course is designed for students who have completed Algebra 2 (no trigonometry). It is designed to review and to provide more in-depth coverage of Algebra 2 topics such as functions, conic sections, complex numbers, logarithms, and word problems. It will introduce such topics as sequences and series. A major component of this course is the study of trigonometry. The unit circle, right and oblique triangles, the Laws of Sines and Cosines, and identities are studied. Also included are solving trigonometric equations and graphing the functions and their inverses. Students are required to have a graphing calculator for this course.

Prerequisite:

-Successful completion of Algebra 2.

***Students with a yearly average below 73 in Honors Pre-Calculus may not take this course as a senior. Instead they will take Pre-Calculus.**

PRE-CALCULUS

(Seniors Only)

This course is designed to prepare students for college calculus. It begins with a thorough review and extension of the study of functions, including polynomial, logarithmic, exponential, and rational functions. It then proceeds through the study of circular and triangular trigonometry and vectors. Students enrolling in this course will be expected to apply concepts in novel situations. Students are required to have a graphing calculator for this course.

Prerequisite:

- Successful completion of Algebra 3 & Trigonometry; or,

- Completion of Honors Algebra 2 with Trig with an average of 80 or above each semester.

AP CALCULUS AB

This advanced placement course is specifically designed to cover the major topics of Differential and Integral Calculus. The derivative, its definition and applications, including rates of change, maxima and minima, and graphical interpretation are studied in depth. Integral Calculus includes the antiderivative, differential equations, areas, volumes, and average value. Throughout the year, students prepare for the AP test in May. Special review and practice preparations are incorporated into the regular course work during the last quarter. This course is equivalent to the first semester of college calculus. Students are required to have a graphing calculator for this course. **Parents will be charged approximately \$100 for each Advanced Placement exam.**

Prerequisite:

- A yearly average of 73 or above in Honors Pre-Calculus and teacher recommendation.

AP CALCULUS BC

This advanced placement course is designed for students with exceptional talent and extraordinary interest in mathematics. In addition to those topics covered in Calculus AB, the BC course includes other topics such as advanced integration techniques, vectors, parametrically defined curves, and infinite series. The content of this course is designed to qualify the student for placement and credit one semester beyond that granted by most colleges and universities for Calculus AB. Students must have a graphing calculator for this course. **Parents will be charged approximately \$100 for each Advanced Placement exam.**

Prerequisite: - Successful completion of AP Calculus AB.

SOCIAL STUDIES

WORLD HISTORY 1

World History 1 is a survey course which includes a study of the world from the prehistoric period through the 17th Century. Emphasis is placed on applying historical thinking skills in order to understand the context of civilizations, cultures, and religions. The course encourages the students to utilize higher-level cognitive skills to analyze primary and secondary sources in cause and effect relationships and to develop an understanding of how the past influences the present and the future. Outside readings are used to broaden a student's knowledge of material.

AP WORLD HISTORY

In AP World History students investigate significant events, individuals, developments, and processes in six historical periods from approximately 12000 C.E. to the present. Students develop the following skills, practices, and methods: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time. The course provides five themes that students explore in order to make connections among historical developments in different times and places: interaction between humans and the environment; development and interaction of cultures; state building, expansion, and conflict; creation, expansion, and interaction of economic systems; and development and transformation of social structures. **Parents will be charged approximately \$100 for each Advanced Placement exam.**

Prerequisite: Emphasis is placed on preparing the student to take the AP World History exam at the end of the school year. Admission to the class is based on academic achievement, student interest, and teacher recommendation. In order to be eligible to sign up for this class, a student must have a 90 yearly average in the previous regular class or an 85 yearly average in the previous advanced class.

WORLD HISTORY 2

World History 2 is a continuation of the ninth grade course and is designed to bring the student from significant developments of the 17th Century into the modern world. Considerable attention is given to current events during the fourth quarter of the academic year. Outside readings are used to expose students to great world literature and thought as well as to emphasize historical material studied.

AP EUROPEAN HISTORY

Advanced Placement European History is the study of the history of Europe from the Renaissance to the present, with emphasis on the major trends and issues during this time period. The requirements include additional reading and writing, and increased student responsibility to prepare and participate in class discussion and other activities. Assignments require more complex analytical and critical thinking skills than those in the World History classes. **Parents will be charged approximately \$100 for each Advanced Placement exam.**

Prerequisite: Emphasis is placed on preparing the student to take the AP European History exam at the end of the school year. Admission to the class is based on academic achievement, student interest, and teacher recommendation. In order to be eligible to sign up for this class, a student must have a 90 yearly average in the previous regular class or an 85 yearly average in the previous advanced class.

AMERICAN HISTORY

American History is a two-semester course in which students study many people, events, places, movements, ideas, and institutions in America's formation and development from the period of early exploration and colonization by Europeans to present times.

The first semester will cover the pre-colonial, colonial, revolutionary, early national, antebellum, Civil War, Reconstruction, westward expansion, and industrial eras. The second semester will cover the eras of the turn of the century, urbanization, progressive reforms, World Wars I and II, the New Deal, the Cold War, Civil Rights Movement, Vietnam, and contemporary America. Specifically, within these eras the political, social, and economic developments will be examined, while considering the ideological, moral, and intellectual temper of the periods. This history class is a quest for self-understanding; in our study of our nation's past we have opportunities to gain greater understanding of our world and ourselves.

AP UNITED STATES HISTORY

Advanced Placement United States History is a college-level course in which students study many people, events, places, movements, ideas, and institutions in America's formation and development from the period of early exploration and colonization by Europeans to present times. This AP course is designed to provide students with the pertinent historical knowledge and to help them develop the analytical and writing skills that will encourage them to view the connections between past and present in a critical manner. In addition to the requirements of the traditional class, the student is given more responsibility for reading and assessing historical materials, and class participation. Writing is a major component of this course; students will analyze materials, make evaluations, and present conclusions cogently in essay form.

The first semester will cover the pre-colonial, colonial, revolutionary, early national, antebellum, Civil War, Reconstruction, westward expansion and industrial eras. The second semester will cover the eras of the turn of the century, urbanization, progressive reforms, World Wars I and II, the New Deal, the Cold War, Civil Rights Movement, Vietnam, and contemporary America. Specifically, within these eras the political, social, economic developments will be examined, while considering the ideological, moral, and intellectual temper of the periods. This history class is a quest for self-understanding; in our study of our nation's past we have opportunities to gain greater understanding of our world and ourselves. **Parents will be charged approximately \$100 for each Advanced Placement exam.**

Prerequisite: Emphasis is placed on preparing for the AP U.S. History exam, which is given in May. Admission to the class is based on academic achievement, student interest, and teacher recommendation. In order to be eligible to sign up for this class, a student must have a 90 yearly average in the previous regular class or an 85 yearly average in the previous advanced class.

US GOVERNMENT/ECONOMICS

This course involves the study of the forces and principles which have shaped American government from the colonial period through the twentieth century. Special emphasis is placed on a thorough discussion of the U.S. Constitution as the flexible cornerstone of our system. The structure and function of each of the three branches is examined, and special units of study on political parties, civil liberties, and court cases contribute to the students' understanding of the complexity of democracy.

Economics is a general survey course of both microeconomic and macroeconomic theories associated with the operation of capitalistic economies. An in-depth look at the interaction of supply and demand includes the use of standard graphs, formulas, and problems. Studies also include American business, productivity, government involvement in the United States economy along with an analysis of fiscal and monetary policy tools and international trade.

AP US GOVERNMENT AND POLITICS/AP MACROECONOMICS

This course involves a detailed study of the major forces that have contributed to the establishment and change of the American system from the colonial period through the twentieth century. Students examine documents, study court cases, and become acquainted with modern political system through the use of primary and secondary sources. Special emphasis is placed on understanding the original intent of the Constitution and examining changes in the interpretation of this cornerstone of our system. Students study the structure and function of each of the three branches, and special units on civil liberties and political parties contribute to the overall understanding of the system. The students are expected to complete additional assignments, which require a high degree of independent thought and work.

This course is a study of topics relevant to an understanding of the principles which govern economic activity in capitalistic economies. Basic concepts such as production possibilities, national income determinants, aggregate supply and aggregate demand, money, the banking system, fiscal policy and monetary policy are examined. There is additional discussion of international trade, which emphasizes the economic interdependency and the role of comparative advantage in international determination of trade policies. **Parents will be charged approximately \$100 for each Advanced Placement exam.**

Prerequisite: Emphasis is placed on preparing the student for the AP US Government and Macroeconomics exams that are given at the end of the school year. Admission to the class is based on academic achievement and student interest. In order to be eligible to sign up for this class, a student must have a 90 yearly average in the previous regular class or an 85 yearly average in the previous advanced class.

SCIENCE

Please see information about new science curriculum on pages 6-7.

BIOLOGY

Biology is a comprehensive study of the living world. In order to understand the life processes of organisms, the following are included; basic chemistry, biochemistry, ecology, cell structure and function, photosynthesis, cellular respiration, genetics, DNA replication, protein synthesis, evolution, classification, and taxonomy. Laboratory experiences are provided for all major concept areas as well as group activities that are inquiry based. **Students who did not take Honors Biology in 9th grade must take Biology or Honors Biology in 10th grade. Open to Grade 9 and 10.**

HONORS BIOLOGY

Honors biology is an accelerated lab-oriented course designed for students that have shown the ability to understand and apply advanced concepts and skills vital to the study of science. Students that take this course will be expected to learn ideas and theories requiring critical thinking and application. Such concepts will come from the fields of molecular biology, cell biology, taxonomy, evolution, genetics, and chemistry. Through the study of current scientific research, students will focus on the application of scientific information and experimentation. **Students who did not take Honors Biology in 9th grade must take Biology or Honors Biology in 10th grade.**

Pre-Requisites*:

Rising 9th graders who completed Advanced Physical Science in 8th grade are required to take Honors Biology.

Rising 10th graders who completed 9th grade Physical Science with a minimum grade of 92, are recommended by their Physical Science teacher to continue in the advanced science track, and are concurrently enrolled in a minimum of Geometry or Honors Geometry may apply for the class.

Rising 10th graders who enroll in Honors Biology will be required to take Chemistry the following year.

Open to Grades 9 and 10.

CHEMISTRY

Chemistry is a laboratory-oriented course which develops student understanding of introductory theoretical chemistry and includes laboratory work that prepares students for college science and engineering studies. The course focuses on the composition, structure, and changes of materials.

Prerequisite: Previous completion of / concurrent enrollment in Algebra II

Open to Grades 10-12.

HONORS CHEMISTRY

Honors Chemistry is an accelerated lab-oriented course designed for students that have shown the ability to understand and apply advanced concepts and skills vital to the study of science. This course develops student understanding of introductory theoretical chemistry and includes laboratory work that prepares students for college science and engineering studies. The course focuses on the composition, structure, and changes of materials. Through the study of current scientific research, students will focus on the application of scientific information and experimentation.

Prerequisites: Previous completion of / concurrent enrollment in Algebra II. 90 or higher each semester in Regular Biology or 85 or higher each semester in Honors Biology.

Open to Grades 10-12.

CONCEPTUAL PHYSICS

Conceptual Physics focuses on a study of the basic concepts associated with high school level physics. The class focuses less on equations and calculations and more on understanding and applying physics concepts and definitions. General problem-solving skills are also practiced. Concepts covered include motion, forces, energy, heat, optics, and much more.

Open to Grades 10-12.

PHYSICS

Physics is a laboratory-oriented course that develops student interest and ability in physical science in preparation for college science and engineering studies. The traditional concepts of physics are developed in a unified logical sequence of mechanics, heat, sound, light, and electricity. Completing regular physics prohibits you from taking AP physics at a later date.

Prerequisite: The student must have completed or be concurrently enrolled in Honors Pre-Calculus or Pre-Calculus or math teacher recommendation.

Students who complete Physics are prohibited to take AP Physics or Conceptual Physics at a later date.

Open to Grades 11-12.

ANATOMY AND PHYSIOLOGY

This laboratory-oriented course will develop an understanding of the structure and function of the human body at all levels of organization. Structural detail will emphasize both micro and gross anatomy. Functional detail will explore metabolic and physiological processes. Human diseases and health concerns will also be addressed.

Prerequisite: Biology completed with a minimum grade of 75 for both semesters.

Open to Grades 11-12.

ENVIRONMENTAL SCIENCE

The purpose of this course is to introduce students to the realm of science dealing with our ecosystem and the problems facing our environment. Students will be introduced to the challenges that we face such as overpopulation, deforestation, pollution, and endangering/extinction of species. The students will be taught how to determine factors that are affecting these issues and methods of restoration to the ecosystem. The course will include mathematical calculations including but not limited to energy efficiency, land conversion, population growth, attack rates of diseases, and fuel efficiency. The course will incorporate labs that may be done in an indoor lab setting or outdoors with student-constructed devices.

Prerequisite: Students must have successfully completed Biology and/or another upper level Science course.

Open to Grades 11-12.

AP BIOLOGY

The Advanced Placement Biology class is designed to be the equivalent of a college introductory biology course. The course outline prescribed by the College Board is used as a guide to content. The major topics covered are chemistry of life, cell structure and function, cellular energetics, cell cycle and cell communication, heredity, gene expression and regulation, natural selection, and ecology. Laboratory experiences are an integral part of this course and are equivalent to that of a typical college course. Current scientific thought and research is also covered. AP Biology is a two period block.

Parents will be charged approximately \$100 for each Advanced Placement exam.

Prerequisite: Chemistry completed with a minimum grade of 85 for both semesters in Honors Chemistry or a minimum grade of 90 for both semesters in Regular Chemistry. Biology completed with an average of 85 both semesters.

Open to Grades 11-12.

AP CHEMISTRY

Advanced Placement Chemistry is a course designed to be the equivalent of the general chemistry course usually taken during the first year of college. Successful completion of this course enables students to enter second-year chemistry courses as college freshmen or to register in courses in other fields where general chemistry is a prerequisite. An outline published by the College Board is used as a content guide. The major topics covered are the structure and states of matter, reactions, stoichiometry, kinetics and thermodynamics. Laboratory experience equivalent to that of a typical college course is also provided. AP Chemistry is a two period block. **Parents will be charged approximately \$100 for each Advanced Placement exam.**

Prerequisite: Chemistry completed with a minimum grade of 85 for both semesters in Honors Chemistry or a minimum grade of 90 for both semesters in Regular Chemistry. Completion of Honors Algebra 2 w/ trig with an average of 85 for each semester or completion of Algebra 2 with an average of 90 for each semester.

Open to Grades 11-12.

AP PHYSICS

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices. This course is open to juniors and seniors who meet all the prerequisites. **Parents will be charged approximately \$100 for each Advanced Placement exam.**

Prerequisites: The student must have completed or be concurrently enrolled in Honors Pre-Calculus or Pre-Calculus. Chemistry completed with a minimum grade of 85 for both semesters in Honors Chemistry or a minimum grade of 90 for both semesters in Regular Chemistry. Students who have completed Physics are prohibited to take AP Physics.

Open to Grades 11-12.

COMPUTER STUDIES

21ST CENTURY TECHNOLOGY

Today's students must have the knowledge of what technology, in its many forms, means to their advancement and success in all areas of interest for the future. As a result of the importance of technology and the role it plays, students in grades 9 through 12 are required to take and pass 21st Century Technology as an elective. Technology continues to reach further into the students' everyday life and it is important that students understand how technology started and the path it has taken to reach today's standards. In addition to learning the development of technology students will be exposed to the effect it has on their everyday life and how reliance on technology will continue to grow. On a personal level students will learn the relevance of social media on their lives today and the ever growing importance that activities and choices today can or will have on their future. Aside from reviewing the power of the technology at hand, 21st Century Technology students will delve into beginning programming. Development of critical thinking and problem-solving skills will prepare students for further optional computer classes at Saint James School as well as assist the student in utilizing technology in their remaining academic careers.

Required, Open to Grades 9-12. Recommend that students take this course in grade 9 or 10.

WORLD LANGUAGES

Two consecutive levels of the same world language are required in grades 9-12. A third level of the same world language is required for an Honors Diploma. Students must take world language classes each consecutive year until they have met their graduation or Honors diploma requirements. Students are not allowed to skip a year of world language in their scheduling sequence.

HONORS FRENCH 4

French 4 presents the history and culture of France from prehistoric times to the present. Students examine the historic events, art and literature of each time period through selected readings. Students review grammatical structures, study advanced grammar, prepare writing assignments and improve their speaking skills. Fourth year languages will be offered as scheduling of students and teachers permits. Third and fourth year language classes cannot be combined and taught during a single period.

Prerequisite: French 3 completed with a minimum yearly average of 80.

Elective, Open to Grade 12.

LATIN 1

In Latin I, students learn basic Latin grammar concepts and vocabulary. Students will also learn about Romans and their society through studies of Roman life and classical mythology. Emphasis will be placed on Latin as a basis of the English language.

Prerequisite: For rising 9th graders, in order to enroll in Latin 1, students must have a numerical average of 80 or above for each semester in each of the following 8th grade courses: English, Math, Science, and History.

LATIN 2

Latin 2 continues the study of Latin grammar, with greater emphasis on reading proficiency. Students will also study the major events of Roman history including the political structure. Latin 2 continues its emphasis on Latin as the basis of the English language through word study.

Prerequisite: Latin 1 completed with a minimum yearly average of 70.

HONORS LATIN 3

Latin 3 students complete their study of grammar, concentrating on the more advanced concepts. Students read original prose authors and poets, with emphasis on the ability to understand Latin idioms and figures of speech. Their historical study continues with a concentration on the Imperial period.

Prerequisite: Latin 2 completed with a minimum yearly average of 80.

Elective, Open to Grades 11-12.

HONORS LATIN 4

Latin 4 students read a variety of Roman authors, including Cicero, Caesar, Pliny, Catullus, Vergil, and Ovid. They are introduced to principles of prosody and rhetorical analysis. Fourth year languages will be offered as scheduling of students and teachers permits. Third and fourth year language classes cannot be combined and taught during a single period.

Prerequisite: Latin 3 completed with a minimum yearly average of 80.

Elective, Open to Grades 11-12.

SPANISH 1

First year students participate in an introductory course in speaking, reading, writing, and listening comprehension. Culture and history are explored in the Spanish speaking world.

Prerequisite: For rising 9th graders, in order to enroll in Spanish 1, students must have a numerical average of 80 or above for each semester in each of the following 8th grade courses: English, Math, Science, and History.

SPANISH 2

Second year students continue to develop their speaking, reading, writing, and listening comprehension by expanding their knowledge of vocabulary, verb tenses, and grammatical constructions. Various aspects of culture are also explored.

Prerequisite: Spanish 1 completed with a minimum yearly average of 70.

HONORS SPANISH 3

Third year students study more complex grammatical structures and verb conjugations while continuing to expand their vocabulary knowledge. Synthesis of Spanish 1 and 2 is part of the focus of Spanish 3. Cultural aspects of the Spanish speaking world including some original literature are part of this class.

Prerequisite: Spanish 2 completed with a minimum yearly average of 80.

Elective, Open to Grades 11-12.

HONORS SPANISH 4

At this intermediate level, students synthesize all they have learned in prior years and apply it daily in writing, speaking, listening, and reading. Many videos from Spanish speaking countries are shown. Original literature from a variety of famous writers from many Spanish speaking countries are included. Grammar, verb conjugations and vocabulary are practiced for full comprehension of the language. Fourth year languages will be offered as scheduling of students and teachers permit. Third and fourth year language classes cannot be combined and taught during a single period.

Prerequisite: Spanish 3 completed with a minimum yearly average of 80.

Elective, Open to Grades 11-12.

PHYSICAL EDUCATION AND HEALTH

PHYSICAL EDUCATION

The students will receive instruction in a wide variety of individual/dual activities and team sports. An emphasis is placed on lifetime activities and fitness. Classes are organized to develop skills, knowledge, insight, and interest in wholesome, vigorous, and challenging activities that can be enjoyed now and throughout life. Students who are not enrolled in Seventh Period Athletics, Athletic Weight Training, Cheerleading, or the Pom Squad must complete a year of physical education in the ninth grade.

Open to Grade 9.

ATHLETIC WEIGHT TRAINING

This full year elective course is available to all high school athletes participating in any Saint James Athletic Program who are not enrolled in Seventh Period Athletics. This course is not required for team participation. All athletes will participate in a year round regimen of weight training, conditioning, and plyometrics for all sports. The athletes will be responsible for exerting maximum effort while striving for improvement in all areas. Strict supervision and instruction will be maintained.

Prerequisite: Coach's approval may be required.

This course can be taken more than once.

Open to Grades 9-12.

SEVENTH PERIOD ATHLETICS

This full year course is specifically geared toward the competitive athlete participating in football, basketball, baseball, volleyball, and wrestling. All athletes will participate in a year round regimen of weight training, conditioning, and plyometrics. The athletes will be responsible for exerting maximum effort while striving for improvement in all areas. Strict supervision and instruction will be maintained. In season athletes will incorporate strength training and conditioning within the constraints of practices.

Prerequisite: Must be a member of: Volleyball, Football, Boys or Girls Basketball, Baseball, or Wrestling Teams, and receive coach's approval.

*** *Qualifying teams subject to change based on coach availability during 7th period.***

****Coach's approval required.***

This course can be taken more than once.

Open to Grades 9-12.

CHEERLEADING

Students who are selected through a tryout process to become members of the Junior Varsity or Varsity cheerleading squads are required to take this class. The class is taught by a coach and is not available for students who are not selected for a cheerleading squad.

Open to Grades 9-12. This course can be taken more than once.

TROJANETTES POM SQUAD

(Dance Team)

In order to be eligible for this class, students must be selected through a tryout process. Students selected through this process are required to take the class. The class will focus on dance technique and conditioning. Team members will practice choreographed routines that will be performed at home varsity football and basketball games. This class will also focus on leadership development. Attendance at all extra-curricular events is required. ****This is a year-long course and completion and passing of both semesters will substitute for P.E. credit required for graduation.***

Open to Grades 9-12. This course can be taken more than once.

FINE ARTS

VISUAL ART 1

Visual Art 1 is an introduction to the design elements and principles. Each element of art will be explored with problem solving projects and the introduction and emphasis of various art principles. Three-dimensional art will be introduced through various media, styles and techniques. Drawing concepts, styles and techniques will also be explored the second semester. All projects will be studied in the context of production, art history, aesthetics and art criticism. The class fee will cover the cost of matting and materials. The student will be responsible for the cost of competition entry fees throughout the year.

Visual Art Class Fee: \$100.00

Elective, Open to Grades 9-12.

VISUAL ART 2

Visual Art 2 is an in-depth study of the techniques, styles and media used in the production of two-dimensional art. The three major areas to be studied will be drawing, painting (transparent and opaque) and printmaking. All projects will be studied in the context of production, aesthetics, art history, and art critique. The class fee will cover the cost of matting and materials. The student will be responsible for the cost of competition entry fees throughout the year.

Visual Art Class Fee: \$100.00

Prerequisite: Art 1

Elective, Open to Grades 10-12.

VISUAL ART 3

Visual Art 3 is an in-depth study of two and three-dimensional design concepts in relation to visual problem solving. The use of art elements and principles in a professional manner will be emphasized throughout this course. A wide range of media will be used including but not limited to projects in drawing, painting, printmaking and three-dimensional design. The class fee will cover the cost of matting and materials. The student will be responsible for the cost of competition entry fees throughout the year.

Visual Art Class Fee: \$100.00

Prerequisite: Art 2

Elective, Open to Grades 11-12.

VISUAL ART 4

Visual Art 4 is an in-depth study of two and three-dimensional design concepts in relation to visual problem-solving. The use of art elements and principles in a professional manner will be emphasized throughout the course. A wide range of media will be used including, but not limited to, projects in drawing, painting, print-making, and three-dimensional design. Students will prepare a professional portfolio of artwork for presentation and evaluation. The class fee will cover the cost of matting and materials. The student will be responsible for the cost of competition entry fees throughout the year.

Visual Art Class Fee: \$100.00

Prerequisite: Art 3

Elective, Open to Grade 12.

GRAPHIC DESIGN

This course offers students an opportunity to combine their artistic and design talents with industry standard software programs to master the basics of graphic design needed for college level coursework. Students will prepare a professional portfolio of designs for presentation and evaluation. The class fee will cover the cost of matting and materials. The student will be responsible for the cost of competition entry fees throughout the year.

Graphic Design Class Fee: \$85.00

Elective, Open to Grades 10-12.

AP STUDIO ART: 2-D DESIGN

The Advanced Placement Studio Art program is designed for the highly motivated high school art student who is interested in working on the college level. AP Studio Art is based on a student's portfolio, which is submitted at the end of the year for review by College Board examiners. Students are required to demonstrate proficiency within the areas of breadth, quality and concentration. The 2-D design studio concentrates on the use of the art elements and principles within all 2-D media, styles and techniques including digital applications. This class will require students to complete artwork at home bi-weekly. The class fee will cover the cost of matting and materials. The student will be responsible for the cost of competition entry fees throughout the year.

A lab is optional in the 2-D design studio, but highly recommended due to course load.

AP Studio Art: 2D Design Class Fee: \$175.00

Parents will be charged approximately \$100 for each Advanced Placement exam.

Prerequisite: Art 2, Graphic Design, or Photography II with teacher approval

This course can be taken more than once with teacher approval.

Elective, Open to Grades 11-12.

AP STUDIO ART: DRAWING

The Advanced Placement Studio Art program is designed for the highly motivated high school art student who is interested in working on the college level. AP Studio Art is based on a student's portfolio, which is submitted at the end of the year for review by College Board examiners. Students are required to demonstrate proficiency within the areas of breadth, quality and concentration. The drawing studio concentrates on all drawing media, styles and techniques including printmaking and transparent and opaque painting. This class will require students to complete artwork at home bi-weekly. The class fee will cover the cost of matting and materials. The student will be responsible for the cost of competition entry fees throughout the year.

AP Studio Art: Drawing is a two period block.

AP Studio Art: Drawing Class Fee: \$175.00

Parents will be charged approximately \$100 for each Advanced Placement exam.

Prerequisite: Art 2 with instructor approval.

This course can be taken more than once with teacher approval.

Elective, Open to Grades 10-12.

AP ART HISTORY

The Montgomery Museum of Fine Arts offers an AP Art History course for juniors and seniors. Students must apply through the museum. In this global survey, students explore the creations of a variety of eras and cultures, artistic traditions are examined as reflections of society, and students enjoy observing daily life in the present with an enhanced understanding of art history. The class also has the advantage of interacting with the Museum's collection, exhibitions, and visiting speakers. **Parents will be charged approximately \$100 for each Advanced Placement exam.**

Elective, Open to Grades 10-12.

PHOTOGRAPHY 1

The photography elective provides an opportunity for students to learn the basic fundamentals of black and white photography using a manual, 35mm, and single lens reflex camera. Students will also learn basic darkroom techniques for enlarging prints and developing film. Rules of good composition and techniques for manipulating black and white prints will also be taught. This class will require students to photograph at various locations outside of school per assignment sheets given each week. Field trips will be offered.

Photography 1 Class Fee: \$85.00

Elective, Open to Grades 10-12.

PHOTOGRAPHY 2

The photography 2 elective provides an opportunity for students to learn the basic fundamentals of digital photography using the manual modes on a Nikon D3000. Students will also learn basic photo editing techniques and photo manipulation techniques using Adobe Photoshop. Students will continue to use rules of good composition learned in Photography I. Students will prepare a professional portfolio of photography for presentation and evaluation. This class will require students to photograph at various locations outside of school per assignment sheets given each week. Field trips will be offered.

Photography II Class Fee: \$85.00

Prerequisite: Photo I and instructor approval.

Elective, Open to Grades 11-12.

THEATRE ARTS 1

Theater Arts I is designed for the beginning drama student. By reading and exploring plays from many theatre genres, the student will become more comfortable with the idea of performing and explore the many possibilities to work on stage and behind the scenes. Students learn to use voice, body, and imagination to create characters. Acting techniques such as blocking, vocal control, and audition skills are introduced. Beginning direction and production techniques are explored. Attendance of a performance of all school productions is required. No outside of class production involvement is required.

Elective, Open to Grades 9-12.

THEATRE ARTS 2

This course is an extension of Theatre Arts I. This course extends study of acting, directing, and producing plays. Students, under the supervision of the teacher, will direct scenes using other students as actors. These scenes are used to further develop skills in aesthetics and criticism. Careers in and related to theater are explored. Students will prepare to participate in the major school productions. Attendance of a performance of all school productions is required. Auditioning for performances is required. Acceptance of roles is at the discretion of the student and is not a requirement. If a role is accepted, the student will receive a grade based on their performance during the rehearsal and performance process.

Prerequisite: Theatre Arts 1

Elective, Open to Grades 10-12.

TECHNICAL THEATRE 1

This course is designed to teach and implement the basics of set design, set construction, set painting, lighting design, and sound design. Students will benefit from hands-on experience with the tools and equipment necessary for proper execution of the above. Students will also be well versed in safety techniques and procedures. Attendance of a performance of all school productions is required. There is no outside of class work required. Crew work is at the discretion of the student.

Elective, Open to Grades 9-12.

TECHNICAL THEATRE 2

This course is an extension of Technical Theatre I concentrating on advanced study of the ideas introduced in the Technical Theatre I class and will have practice and application in the areas of design and technology. Students will become more adept with the equipment and take on a leadership role within the class. Attendance of a performance of all school productions is required. Crew work in at least one performance is required during the course of the year.

Prerequisite: Technical Theatre 1

Elective, Open to Grades 10-12.

TECHNICAL THEATRE PRODUCTIONS

This course is geared for those students with a serious interest in working with the school theatrical productions. The class is the core class for the organizational aspects of these productions. Students within the course will be the leaders of our various crews and will help for the vision for all productions. The school may use these students to run school related programs and assemblies. Within this class, stage managers, technical directors, designers, prop masters, and house managers are cultivated to enhance the theatrical program. Outside class work is involved as those within the class are required to work with all theatre productions. After school rehearsal time and crew work will be needed throughout the year and is dependent on the position that is assigned. Attendance is required for all tech weeks and runs of the various productions. Some weekend work may be required depending on necessity and as deemed by the instructor.

Prerequisite: Theatre Art I or Technical Theatre I or instructor's approval.

This course can be taken more than once with teacher approval.

Elective, Open to Grades 10-12

CHORAL MUSIC

In Chorus, students study music through the preparation and performance of excellent repertoire from many cultures and styles of music. This study includes reading skills, historical and cultural contexts, aesthetic judgments, and critical decision-making on the parts of the performers. As appropriate, the chorus will perform at school and civic functions, festivals, and competitions that provide constructive feedback for the students. A national competition is offered as an optional trip for students to a designated location. All rehearsals occur during class time, and students should expect 3-4 required performances outside of school hours in the entire school year.

This course can be taken more than once with teacher approval.

Elective, Open to Grades 9-12.

HIGH SCHOOL PERFORMANCE STUDIES

Performance Studies allows those who have a heightened interest in the Performing Arts to study theater in conjunction with music as an artform. Students will explore how to work collaboratively as well as individually by creating a personal portfolio as well as participating in performance ensembles, and specifically the High School Chorus. Students will be expected to audition for and participate in various competitions, festivals, and ensembles within the school, community, and state. Students will be given a list of required events outside of the normal school day. These events generally happen over a weekend. There is usually no more than 2 to 3 per semester. Rehearsal times will occur during class time.

Prerequisites: Student must have successfully completed at least 1 year of High School Choir or any Theater elective, or approval by instructors.

This course can be taken more than once with teacher approval.

Elective, Open to Grades 9-12.

PERCUSSION

This course provides opportunities for students to develop basic performance techniques for playing percussion instruments. A variety of styles will be studied including Classical, Jazz, Popular Music, and World Music traditions such as Latin, African, Middle Eastern, and Japanese. Emphasis will be placed on proper tone production, reading music, technique, and instrument care. This class will require students to practice outside of class and each student will need their personal supplies (drum sticks, books, practice pads, etc.) There will be performance opportunities that will take place outside of class time, which could include afternoons, evenings, or weekends. **No prerequisite course required. Students without previous percussion experience or those who have played any musical instrument are welcome to enroll. Instruments will be provided, but students will need to purchase sticks and proper mallets.**

This course can be taken more than once with teacher approval.

Elective, Open to Grades 9-12.

INSTRUMENTAL MUSIC (Marching and Concert Band)

The senior band course involves the student in all aspects of instrumental music. Prior musical experience is not a prerequisite. The band performs for athletic events and participates in marching festivals, as well as the annual holiday and spring concerts. Students are expected to attend all scheduled practices, including summer band camp. Performance are a requirement of the class and are excused only in the case of illness or family emergencies. The performance calendar is provided in the spring and conflicts should be avoided. This class will require students to practice outside of class and each student will need their personal supplies. There will be performance opportunities that will take place outside of class time, which could include afternoons, evenings, or weekends.

**This course can be taken more than once with teacher approval.
Elective, Open to Grades 9-12.**

AP MUSIC THEORY

The AP Music Theory course corresponds to two semesters of a typical introductory college music theory course that covers topics such as musicianship, theory, musical materials, and procedures. Musicianship skills including dictation and other listening skills, sight-singing, and keyboard harmony are considered an important part of the course. Through the course, students develop the ability to recognize, understand, and describe basic materials and processes of music that are heard or presented in a score. Development of aural skills is a primary objective. Performance is also part of the learning process. Students understand basic concepts and terminology by listening to and performing a wide variety of music. Notational skills, speed, and fluency with basic materials are emphasized. **Parents will be charged approximately \$100 for each Advanced Placement exam.** There is no outside class requirement or expectation different than other AP academic courses.

**Prerequisites: This course is open to juniors and seniors who have successfully completed a minimum of one year of choral music, band, or private music lessons at the high school level. Teacher permission is also required.
Elective, Open to Grades 11-12.**

JOURNALISM - YEARBOOK

Students who wish to participate in Journalism-Yearbook (*The Iliad*) must be A-B students, with good English grades and writing skills. They should be deadline-conscious self-starters who are interested in writing about and taking pictures of school events and personalities. Students taking Journalism-Yearbook will be required to sell business ads during first semester. Journalism-Yearbook students should expect to spend a couple hours a week outside of class to work on identifying and interviewing students, writing stories, designing pages, and editing spreads. Students who cannot drive themselves to businesses for ad sales may need to devote additional time on the weekends to make sales calls with their parents. This class can be counted as a Fine Arts credit.

**Prerequisite: Yearbook: High school or middle school sponsor/instructor approval required.
This course can be taken more than once with teacher approval.
Elective, Open to Grades 9-12.**

JOURNALISM - NEWSPAPER

Students who wish to participate in journalism through the school newspaper (*The Odyssey*) must be A-B students, with good English grades and writing skills. They should be deadline-conscious self-starters who are interested in writing about and taking pictures of school events and personalities. Students enrolled in Journalism-Newspaper will sell ads throughout the year. There are few requirements outside of class. Students may work on articles, pages, and selling advertisements during class time. However, students are free to work on any of the requirements outside of class as well. This class can be counted as a Fine Arts credit.

**This course can be taken more than once.
Elective, Open to Grades 9-12.**

COMPETITIVE SPEECH AND DEBATE (Forensics)

Members of the Competitive Speech and Debate class will learn to use communication to present speeches, perform literature, and debate topics effectively following NSDA and CFL standards. Students in this course are members of the Saint James Speech and Debate team and are required to travel to at least 2 tournaments a semester. Travel includes tournaments in places like Florida, Alabama, Texas, Illinois, Massachusetts, and many others. At tournaments team members will compete in one or more events depending on event selection. Every team member **MUST** keep above a 2.5 average in all core classes in order to travel. The STJ Forensics team and class are founded on having fun and achieving excellence in what we do. There are some fees associated with travel. After school practice times are required.

**This course can be taken more than once with teacher approval.
Elective, Open to Grades 9-12.**

PUBLIC SPEAKING

Public speaking is the process of communicating information to an audience. It is usually done before a large audience, like in school, the workplace and even in our personal lives. The benefits of knowing how to communicate to an audience effectively will follow each student into almost every facet of college and post graduate work. In this introductory speech course, students are exposed to a wide variety of speaking situations. Types of speeches include informational, persuasive, demonstration, impromptu, informational, oral interpretations, and original oratory. Students will develop and maintain a multimedia public speaking portfolio within the class. Since public speaking is the number one fear of most Americans, the class provides a supportive and low-key atmosphere to help students overcome their anxiety. Participation in competition is not required for this class.

Elective, Open to Grades 9-12.

VISUAL STORYTELLING

Visual storytelling is a year-long course open to 10th-12th grade students that focuses primarily on the creative production of short films and videos, with an emphasis on storytelling. Students view and discuss short films as a guide to how stories can be told with a fusion of words and images, and class discussions of film making techniques will further emphasize how these media are integrated. Students build video projects from the ground up, beginning with brainstorming, storyboarding, and scripting, and progressing through shooting, editing, and presenting their work. Each quarter culminates in a video project in one of several different forms or genres, with the final project of the year consisting of an extended five-minute short film that pulls together the students' skills in writing, visualizing, capturing, and crafting their ideas into a dramatic visual presentation. Throughout the year, students will develop both technical skills and storytelling skills as they create distinct and memorable videos and short films. Class time includes much project work time for students, though some amount of outside time is expected, whether after school or at home. The amount of work time outside of class will vary based on student choice in project setting as well as student efficiency in making use of provided in-class work time.

Elective, Open to Grades 10-12.

ADDITIONAL ELECTIVES

ROBOTICS AND PRE-ENGINEERING

Students will learn about various phases of the engineering profession, including computer-aided design, computer programming, construction, and marketing. The course is largely project based with both whole-class projects and smaller group projects. Robot design and construction is a major component of the course. Students will participate in various engineering design and construction competitions, including B.E.S.T. (Boosting Engineering, Science, and Technology). These competition components of the course will require students to participate in after school and weekend construction and competition events. (During the 6 weeks of preparation for B.E.S.T., students will be expected to stay after school to work on components of the competition at least twice a week for 2 hours each day. The competition is held on a Saturday (all day) and participation is required. Students may need to work on some weekends during that 6-week period, if needed.) Students will also have the opportunity to visit local companies that employ engineers of various types and to participate in engineering activities both through local industries and through nearby colleges and universities. Students are occasionally expected to make presentations describing the robotics program on behalf of the school. These presentations are occasionally on weekends.

Co-requisite: Geometry or Honors Geometry and 21st Century Technology.

Elective, Open to Grades 9-12. This course can be taken more than once.

SURVEY OF SPORTS MEDICINE, PHYSICAL THERAPY, AND RELATED PROFESSIONS

This course is open to students in grades 9-12 and offers an introduction to various health science and medical related professions including orthopedics, rehabilitation, and sports medicine. It is designed for students interested in careers in the medical profession, including MD, DO, dentistry, physical therapy, sports medicine and related fields and helps prepare them for future studies by providing quality coursework and offering exposure to a variety of directed clinical experiences in the medical field. Emphasis will be on educational requirements, scope of practice, professionalism, and communication in many different medical professions. Students will gain knowledge in medical terminology, medical documentation, legal issues, anatomy, bracing, taping, and emergency procedures. This course does not substitute for science credit.

This course will require students to complete 4 observation opportunities in various medical professional settings outside of class time. Those wanting to do hours in the sports medicine field can be done with the on-site athletic trainer at practices & games outside of school hours. Students will be required to do observation hours with a professional of their choosing in the medical field. These hours will be conducted off campus & outside of school hours. Students will participate in conducting annual sports pre-participation screenings typically held on the Second Saturday of May.

Some travel to field trip venues related to the course of study may also take place outside of class time.

Elective, Open to Grades 9-12.

LIFETIME HEALTH AND WELLNESS

This year-long course will include an overview of basic health issues such as the promotion of wellness, disease prevention, nutrition, healthy relationships, the negative impacts of tobacco, drugs, and alcohol, and communicable and noncommunicable diseases. In addition, students will receive instruction in critical areas which teach and emphasize lifetime health and wellness. Students will take an in-depth look at topics such as nutrition; the impacts of exercise on the body; exercise alternatives for life; decision-making and health; community, state, and national health issues, initiatives, and programs from infancy through elder care; lifetime health and wellness careers; and stress and health. In addition to traditional methods of instruction, students will also be exposed to the wide array of “apps” and websites that are health related. Standards, such as those established by the National Health Education Standards would be used along with Saint James standards to define the teacher developed units.

Elective, Open to Grades 9-12.

AP HUMAN GEOGRAPHY

The purpose of the AP Human Geography course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth’s surface. Students will engage in topics such as globalization, colonialism, patterns of interaction, economic development, population growth, migration patterns, technological innovation, territorial boundaries, the role of women, and climate change. Students will improve map skills, analysis techniques and writing skills. **Parents will be charged approximately \$100 for each Advanced Placement exam.**

Prerequisite: Emphasis is placed on preparing for the national AP Human Geography examination, which is given in May. Admission to the class is based on academic achievement, student interest, and teacher recommendation. In order to be eligible to sign up for this class, a student must have a 90 yearly average in the previous regular history class or an 85 yearly average in the previous advanced history class.

This course will be offered as an elective to students in grades 10-12. The course would not substitute for any of the current history graduation requirements for any grade. So, students taking this course would also have to be concurrently enrolled in their required history course.

***Note - A 10th grader requesting to double-up and take both AP European and AP Human Geography must have departmental approval.**

Elective, Open to Grades 10-12.

PROGRAMMING

In the Introduction to Programming class, students will be introduced to several of the main concepts of computer programming including sequencing, selection, and iteration. A student will be able to use these constructs to improve existing computer applications and create program solutions to solve simple problems and create small to medium sized software programs.

The class will include a brief history of programming and move into the latest programming skills with a strong connection to the *Swift* programming language. *Swift* is the latest programming language designed to develop applications and programs for Apple products extending from desktops to wrist watch applications and programs.

Prerequisite: Successful completion of 21st Century Technology.

Elective, Open to Grades 10-12.

AP COMPUTER SCIENCE PRINCIPLES

The **AP Computer Science Principles** course is designed to be equivalent to a first-semester introductory college computing course. In this course, students will develop computational thinking vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course is unique in its focus on fostering student creativity. Students are encouraged to apply creative processes when developing computational artifacts and to think creatively while using computer software and other technology to explore questions that interest them. They will also develop effective communication and collaboration skills, working individually and collaboratively to solve problems, and discussing and writing about the importance of these problems and the impacts to their community, society, and the world. **Parents will be charged approximately \$100 for each Advanced Placement exam.**

Pre-requisites: Sophomore, Junior, or Senior Standing. Completion of 21st Century Technology with a minimum 90 average both semesters. Completion of a minimum of Alg 1/Adv Alg 1 and Geometry/Adv. Geometry with a minimum 90 average each semester and concurrent enrollment in a minimum of Honors Algebra 2/Trig or Pre-Calculus.
Elective, Open to Grades 10-12.

LEADERSHIP SEMINAR

The Leadership Seminar is a course designed to give students opportunities for in-depth study, reading, writing, and discussion of leaders as well as leadership skills and mindsets. Students in the leadership seminar will also complete projects or initiatives within the school community and the local community so that they will learn how to apply the leadership skills and principles they are studying in the classroom. Students in the leadership seminar will learn about and develop their skills in leadership as service, understanding and addressing complex problems and questions, effective communication, identifying and acting on values, building character strengths, setting and accomplishing goals, and planning and implementing initiatives.

Prerequisite: Application process, including interview, and sponsor approval required.
Elective, Open to Grades 10-12.

INTRODUCTION TO PHILOSOPHY AND WORLD RELIGIONS

The goal is to broaden the student's understanding of what philosophy and religion encompass through the study of their various forms and teachings. The course is open to juniors and seniors and is designed to be an objective and comparative study of various philosophical and religious disciplines and themes in history. Introduction to Philosophy is taught first semester. Introduction to World Religions is taught second semester.

Elective, Open to Grades 11-12.

INTERPERSONAL RELATIONS YOUTH LEADERSHIP (IPRYL)

Interpersonal Relations Youth Leadership is an elective course offered in conjunction with the Montgomery YMCA to high school juniors and seniors. It offers students appropriate training and the opportunity to experience mentoring relationships with elementary school students in Montgomery. The high school students serve as role models with the task of helping a young person grow in personal and academic achievement and appropriate social behavior. Through working with others, the high school students learn leadership, personal responsibility, and how to approach the community. Students will travel to assigned schools as designated.

High school youth leaders should be of good character and willing to give of their time and energy for a younger person. Prospects for the elective submit an application and attend an interview. They are expected to be outstanding in the following categories: leadership ability, cooperation, respect for authority, general attitude, dependability, willingness to work and school attendance.

Prerequisite: Application process, including interview, and sponsor approval required.
Elective, Open to Grades 11-12.

ASSISTANT POSITIONS*

Saint James offers the below assistantships to students in grades 11 and 12. Assistants will be assigned to a supervising instructor. Assistants will then be called upon by various entities of the division to perform a variety of tasks as requested by faculty and administration. Assistants should expect to spend the class period performing duties for their division. Placement into these assistantships is highly selective and based on faculty or administrative approval, space available, conduct, attendance, and availability in the student's schedule. Student must receive final approval from the high school principal.

Prerequisite: Application process and sponsor approval required.

Elective, Open to Grades 11-12.

**Students may only take two assistantships for a maximum of four graded semesters in an assistantship.*

<u>Assistant Positions</u>	<u>Supervising Instructor</u>	<u>Maximum Number of Positions</u>
Furlong Office	Kimberly Ramsey	8
High School Office	Bethany Shalayda	3
Middle School Office	Emily Cavanaugh	4
Elementary School Office	Lytoya Tolbert	6
Admissions Office	Cathy Pearson	7