



Villa Angela-St. Joseph

HIGH SCHOOL

Faith. Family. Future.

Course of Study 2026-2027



VILLA ANGELA-ST. JOSEPH HIGH SCHOOL

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Villa Angela-St. Joseph High School Mission Statement

Villa Angela - St. Joseph High School is a Catholic,
comprehensive, coeducational school
committed to high academic achievement
and the development of student gifts.

Rooted in Ursuline and Marianist traditions of education,
service, justice and diversity,

Villa Angela - St. Joseph High School
strives to bring each student to a deeper commitment to
Jesus Christ and Gospel values.

Core Values of Marianist Education

- ✚ Educate for Faith Formation
- ✚ Provide an Integral and Quality Education
- ✚ Educate in a Family Spirit
- ✚ Educate for Service, Justice, and Peace
- ✚ Educate for Adaptation and Change

Core Values in Ursuline Education

- ✚ Spirituality
- ✚ Academic Excellence
- ✚ Emphasis on the Individual
- ✚ Women as Leaders
- ✚ Community and Bondedness
- ✚ Service Consciousness
- ✚ Embracing Change

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PURPOSE OF THIS BOOKLET

The Course of Study Guide includes important information regarding the course selection process as well as academic requirements and recommendations. It is updated annually to provide students and parents with a catalog of available course selections for the upcoming academic year.

COURSE SELECTION/SCHEDULING PROCESS

1. A careful review of the student's academic abilities and overall progress is made by the counseling and administrative team. Placement recommendations are made for required (core) courses by a student's current teachers.
2. The Course of Study Guide should be thoroughly reviewed and course selections considered. In addition to fulfilling required graduation requirements, selections should also be based on future plans for college/career. Although schedule rigor is very important, the vast majority of colleges view the cumulative GPA ("Grades in All Courses") above all other factors when making admission decisions. Careful consideration of personal strengths and weaknesses should be taken into account to select a balanced schedule that will be academically challenging without overloading the student and damaging a profile of "overall academic strength" (GPA).
3. Dialog between the parent and student is critical in this process. Course options should be discussed. School counselors are your best resource for questions and sound academic direction. VASJ counselors can always be reached via email (preferred) or by appointment only. Walk-in requests cannot be accommodated due to the counselors' schedule constraints.
4. School counselors will meet individually with students to assist them in the course selection process. Courses will be entered into the Powerschool student information system.
5. Families are notified when the course selection process has been completed. Final selections will be available for review through Powerschool (via the "Class Registration" tab). The deadline for any changes to these choices will be announced. From that date forward any course changes will incur a \$50 course change fee. Course changes due to class closures or other scheduling conflicts/constraints are not assessed a fee.
6. The master schedule will be built over the following months. In an effort to provide more stability to the student schedule, many semester electives will now be "paired" together (ex: Psychology must be taken with Sociology). These will be clearly defined during the course selection process.

COURSE CHANGES/CANCELLATIONS

Elective course offerings may be revised depending on enrollment and/or teacher availability. Should it become necessary to eliminate an elective course during the initial “build” of the new schedule, it will be replaced with one of the student’s alternate choices.

- A. The purpose of finalizing or “locking down” the course selections is necessary to determine staffing and stabilize planning for the new master schedule. Therefore, course changes may no longer be requested after the selection period has been finalized/”locked down”. Once the student receives their actual schedule prior to the start of the new term, a course change request will be considered through the following procedure:
 - a. The student must meet with their counselor to discuss the potential course change. Pending approval by both the counselor and Academic Dean, the student will receive a course change form.
 - b. **All required signatures must be obtained. The form must be returned to the counselor along with a \$50 course change fee before the schedule change will be made.**
- B. **Once the new term begins in the fall, withdrawing from a course after the designated deadline (approximately 3 weeks into the beginning of the school year) will result in a grade of "W/F" for the remainder of the semester and will appear on the student's transcript. The grade will be calculated as an "F" in the grade point average."**

Course changes are based on approval and space in the requested course.

CORE COURSE RECOMMENDATIONS/PARENT WAIVER

A team effort (teachers, school counselors, and academic dean) is employed to ensure the highest level of student academic success when considering course placement recommendations. These decisions are based on the student’s previous academic performance, test scores and other factors. Therefore, deviation from these recommendations is highly discouraged.

In the event a parent chooses to challenge a course placement, the following procedure will be in effect:

- A. The parent must communicate with the department chair to better understand the recommendation.
- B. If the parent still disagrees, a “Request for Academic Override” waiver must be signed and submitted to the student’s school counselor.
- C. The student must remain in that course for the entire academic year.

Graduation Requirements:

Course	VASJ Graduation (everyone must take)	State Honors Diploma (meet 7 of 8)	VASJ Honors Diploma	College Admission Recommendation
Religion	4			
English	4	4	4	4
Mathematics	4	4	4	4
Social Studies	3	4	4	3
Science	3	4	4	3
Fine Arts	1	1	1.5	1
Physical Education	.5			
Health	.5			
Google Apps	.5			
Electives	5			
Personal Finance	.5			
Foreign Language		3	3 yrs. of same language or 2 yrs of 2 different languages	2-3 years of same language
ACT or SAT		27 or Higher		
GPA		3.5 min	3.8 min	
Total	26			

**Students must also complete the service and retreat requirements for each grade

**Specific criteria applies to Honors Diplomas: consult with your school counselor for complete information

ACADEMIC HONORS

Honors ranking is determined at the conclusion of each academic quarter. The Honor Roll is determined by the quarterly GPA. Students are recognized for the achievement of either:

First Honors 3.8 or higher GPA

Second Honors 3.3 – 3.79

ADVANCED PLACEMENT (AP) COURSES/COLLEGE CREDIT PLUS (CCP) PROGRAM

Advanced Placement (AP) courses are designed for the college-bound student who demonstrates the ability to successfully meet the more rigorous expectations of an accelerated classroom setting. AP classes utilize college textbooks since they are college level courses. Students are required to enroll in the AP exams administered in the spring (fee approximately \$95). Credit or advanced standing may be offered at the college level based on the AP test score.

College Credit Plus is a program through which students take college-level courses, eligible for both high school and college credit. Students must meet eligibility criteria for acceptance to the college to which they apply. Families must attend the CCP informational meeting held at VASJ. Strict deadlines apply. Students cannot replace core courses with CCP classes. Consult the School Counseling Department or get more information at <https://www.ohiohighered.org/ccp/students-families>

Both AP and CCP courses are weighted on the grading scale. See the VASJ handbook for further information.

STUDY HALLS

Study Hall	A student will have a maximum of one study hall period daily. Additional study halls are only permitted with administrative approval (CCP students or other special circumstances).
Directed Study	Students have direct teacher supervision while completing assignments for core classes. Students will receive a grade for participation. Placement by counselor or Academic Dean recommendation only.
Supported Study	Students work on assignments directly with a teacher and/or Intervention Specialist. The Special Education department determines student eligibility.

SUPPLEMENTAL SUPPORT PROGRAMS

Students with Learning Differences

As per their IEP, students on the Jon Peterson or Autism Scholarship may be eligible for Modified Math and/or Modified English courses.

After- School Study Tables

Open to all students three days a week until 4:00 p.m. Students are expected to actively work on homework, study, or receive tutoring. In certain circumstances, a student may be referred or mandated to attend. Ineligible students are required to attend.

SUMMER READING

Students are expected to participate in a summer reading program organized through the English Department. All works will be discussed and assessed in the various English classes at the start of the school year.

Course Catalog

DEPT	Course Name	Course Number	Credit Hrs	Pre Requisites	Course Description
English					
English	CP Eng I	10	1		This English course presents basic English skills for the high school student. Writing exercises focus on the development of well-written sentences, which use standard English grammar. Students then develop and write cohesive paragraphs to be expanded into a multi-paragraph essay in the fourth quarter. Literature studies include mythology, the short story, the novel and drama. Vocabulary development is stressed in conjunction with both writing and literature activities.
English	Hon Eng I -W	17	1	Y	The content of this course is outlined in CP English 1; this course will include both intensive and extensive study of that content. In addition to paragraphing skills, students learn to apply the same writing process skills to an extended essay during the last quarter. Students must be capable of independent learning.
English	CP Eng 2	20	1		The CP English 2 course focuses on five areas of study. Students write multi-paragraph essays and a research paper while reinforcing the skills of well-written sentences. The novel and drama are emphasized, and the study of nonfiction and poetry are introduced. Vocabulary development continues in conjunction with writing and literature activities. Students learn and practice the skills of public speaking.
English	Hon Eng 2-W	27	1	Y	The content of this course is outlined in CP English 2; this course will include both intensive and extensive study of its content. The focus of writing is on literary analysis and creative assignments. Students must be capable of independent learning.
English	CP Eng 3	30	1		This course is a survey of American literature and its historical significance. Students read, interpret, and analyze selections from each major period in the development of American literature. In preparation for college-level writing as well as standardized tests such as the ACT, students compose well-structured and properly developed essays.
English	Hon Eng 3-W	37	1	Y	The content of this course is outlined in English 3; this course will include both intensive and extensive study of its content. Students must be capable of independent learning and multitasking. Students will demonstrate public speaking skills using persuasive devices and character role modeling (analysis), among other skills. In preparation for college-level writing as well as standardized tests such as the ACT, students compose well-structured and properly developed essays.
English	CP Eng 4	40	1		This course is a survey of British Literature and its historical significance. Students read, interpret, and analyze selections from each historical period. Writing instruction focuses on

					well-written essays, the research process, and writing a research paper.
English	AP Eng Lit & Comp-w	75	1		In this course students will study major literary works in British and world literature. Writing assignments will focus on critical analysis of literature in expository essays. This course will provide the opportunity for AP students to prepare intensely for the Advanced Placement test in Literature. Students must be capable of independent reading and learning. Students are required to take the AP English Exam in May.
English	Creative Writing	76	1		Creative Writing is a course with two primary focuses: fiction and poetry. Students will study the process of writing creative fiction and poetry through writing various short stories and poems, editing peer work, and creating their body of work. Classes will include a variety of activities, such as reading and discussing what makes good literature, writing poetry and short stories off of creative prompts, and workshops with the purpose of peer editing. Students would ultimately create their own portfolio of creative writing and present their best work to the class.
FINE ARTS					
Fine Arts	Music & Performing Arts	851	1		Introduces students to the elements of music: rhythm, melody, and harmony. Students will study individual composers and their works through major historical periods. Students will also be introduced to performing arts by creating and presenting an original work to the class.
Fine Arts	Piano	872S	1		Students with no piano experience will learn the basics of reading music and playing piano. Students will be quizzed throughout the semester to demonstrate their understanding of reading music and using proper playing technique.
Fine Arts	Praise and Worship Team		1	Y	This class brings choir and music together. The Praise and Worship team will work to develop the music at school masses, promoting a powerful charism of the church. Students must have musical training as a prerequisite.
Fine Arts	Digital Media	790	1		The purpose of the Digital Media class is to give VASJ students real-life experience with aspects of journalism, marketing, and public relations. Digital Media is a lab course designed to educate the students to use an array of technologies such as, digital photography, page layout, digital media marketing, and website design. The course culminates in the design and production of the school yearbook. Prerequisites for Digital Media are 2D design or departmental approval.
Fine Arts	Culinary Arts	611	1		Explore the restaurant and food industry. This course builds 21st century life, career, and innovation skills. It covers the basics of food preparation, safety, sanitation, equipment, nutrition and eating habits. Students collaborate in work teams using project-based learning techniques to prepare soups, salads, breads, cookies, cakes, pizza, and lasagna from scratch. Students then expand their food preparation skills by focusing on meal planning. Culminating projects focus on

					planning, ordering, purchasing, and preparing luncheons from United States regional cuisines and those of ethnic origin.
Fine Arts	2D Design	800	1		2D Design is an introductory fine arts course, which emphasizes the application of the elements and principles of art. Creativity and individually is encouraged with each class assignment. Students will engage in creating art in a studio environment. Drawing, observation, linear perspective, application of line and color, color theory, and depth perception are all explored. All projects will result in imagery appearing three-dimensional on flat two-dimensional surfaces and media. Students will have an opportunity to explore a variety of art media, such as graphite, charcoal, pen & ink, pastels, watercolor, tempera, and acrylic paints, and mixed media.
Fine Arts	Advanced 2D Design	801	1		Advanced 2D builds upon the learned elements of 2D Design with an emphasis on craftsmanship, individuality, creativity, and art production. The course is designed for students who have a sincere interest and passion for creativity and the arts. Creative problem solving and development of concepts will be emphasized during the exploration of two-dimensional problems. Critical thinking and formative development of artwork is expected. Challenging projects will engage students in developing technical skills and craftsmanship in a wide variety of media including drawing, painting, and mixed media. Art history is also explored. Student achievement will be recognized and rewarded through art shows and competition. All projects should be considered for portfolio inclusion.
Fine Arts	3D Design	803	1		The 3D Design course is an opportunity for students to explore and create three-dimensional works of art. Students will be engaged in creating 3D objects for two results: function or aesthetics. The principles of art and design are stressed, along with individuality, creativity, and art production. Students must provide evidence of formative exploration and project development. Instruction will include lecture, individual coaching, demonstrations, application techniques, individual and group critique. Art history and cultural research and investigations are included in the course. Students will explore varying media in ceramics and sculpture, which may include clay, molding material, cardboard, slip molds, wire, mixed media, and other materials.
Fine Arts	Portfolio	802	1		The portfolio course is designed for serious art students who have a passion for creativity and visual art. Additionally, students must have a desire to pursue a career in the arts. Throughout the course, students will create a portfolio of original works in 2D and 3D formats. A wide range of art media will be utilized throughout the year, which supports evidence of the student's competence and artistic talent. Twelve original works of art will be completed (6 per semester) for inclusion into a portfolio. Ultimately, an individual portfolio will be prepared for college submission (part of the admission process or scholarship). The final portfolio will be in two formats: project and digital. Visual evidence of project development and

					formative steps is paramount for each completed work. Composition, originality, creativity, craftsmanship, and content are stressed. All works must be of the highest quality and accurately represent the student's talents and abilities.
WORLD LANGUAGE					
World Lang	Latin 1	431	1		The course introduces Latin. Emphasis is placed on the four skills of reading, writing, listening, and speaking through thematic, contextualized vocabulary and grammatical structures.
World Lang	Latin 2	475	1	Latin 1	Latin 2 further explores the language and culture of the Latin language. Emphasis is placed on the four skills of reading, writing, listening, and speaking through thematic, contextualized vocabulary and grammatical structures.
World Lang	Latin 3		1	Latin 1 & 2; C or better in Latin 2 is required	Latin 3 will place an emphasis on speaking and writing, as well as the history and culture of the Latin language.
World Lang	French 1	411	1		This course introduces students to the language and culture of France. Emphasis is placed on the four skills of reading, writing, listening, and speaking through thematic, contextualized vocabulary, and grammatical structures. Students are introduced to the geography, customs, and diversity of the target culture through the use of electronic and print resources.
World Lang	French 2	412	1	French 1	French 2 further explores the language and culture of the francophone world. More complex grammatical structures and expanded vocabulary are incorporated to further develop students' reading, writing, listening, and speaking skills. Students become more proficient in communicating in the present and past tense about real-life situations involving travel, shopping, and leisure activities. Electronic and print resources are used
World Lang	French 3	413	1	French 1 & 2	French 3 continues to build upon previous knowledge of French culture to help students apply their knowledge to daily life. More complex grammatical structures such as past tenses, the usage of direct object pronouns, adverbs, and the conditional tense enrich the additional vocabulary incorporated into lessons. This structure further develops students' reading, writing, listening and speaking skills. Students will begin reading articles in French and will work on translation skills. Students will become more proficient in communicating in a variety of tenses when discussing real-life situations involving history, pastimes, and more. Electronic and print resources are used.
World Lang	Mandarin Chinese 1	401	1		This course will provide students with an introduction to Chinese language and culture. Students will learn how to utilize the pinyin writing system and then move on to Chinese character reading and writing. By the end of the course, students will have the tools to speak about daily life in Chinese.

World Lang	Mandarin Chinese 2	402	1	Mandarin Chinese 1	Mandarin Chinese 2 will continue the study of Chinese culture and language. Students will expand their vocabulary and be able to proficiently interact in spoken Mandarin in everyday life. The course will also continue the study of Chinese calligraphy and reading.
World Lang	Mandarin Chinese 3		1	Mandarin Chinese 1 & 2	Mandarin Chinese 3 will continue the study of Chinese culture and language. Students will expand their vocabulary and be able to proficiently interact in spoken Mandarin up to an intermediate level. Students will also take a deeper look into Chinese culture and history and learn key terms and phrases that correspond to the content.
World Lang	Spanish 1	421	1		This course introduces students to the language and culture of Hispanic countries, learning the skills of reading, writing, listening, and speaking through thematic, contextualized vocabulary and grammatical structures. Students are introduced to the geography, customs, and diversity of Spanish-speaking countries through the use of electronic and print resources.
World Lang	Spanish 2	422	1	Spanish 1	Spanish 2 further explores the language and culture of the Hispanic world. More complex grammatical structures and expanded vocabulary are incorporated to further develop students' reading, writing, listening, and speaking skills. Students become more proficient in communicating in the present and past tense about real-life situations, involving travel, shopping, and leisure activities. Electronic and print resources are used.
World Lang	Spanish 3		1	Spanish 2	Spanish 3 further explores the language and culture of the Hispanic world. More complex grammatical structures and expanded vocabulary are incorporated to further develop students' reading, writing, listening, and speaking skills. Students become more proficient in communicating in the present and past tense about real-life situations, involving travel, shopping, and leisure activities. Electronic and print resources are used.
MATH					
MATH	CP Algebra 1	210	1		This course is the first of two integrated courses, which are designed to improve the mathematics skills for the student as well as complete the Grade 9 Ohio math academic standards. The student will learn: number concepts, computation and problem solving; ratio and proportion; expressions, equations, and inequalities; graphing equations and inequalities; systems of linear equations; relationships; quadratic functions and equations, exponents, polynomials, data analysis and probability. Students will be provided with a graphing calculator on the first day of academics.
MATH	Hon Alg 1 -W	217	1	Y	This course is an in depth study of topics covered in Algebra 1. The material includes a more rigorous treatment of linear equations, inequalities, number systems, problem solving, graphing, polynomials, radicals, quadratic equations, and

					rational expressions. Students will be provided with a graphing calculator on the first day of academics.
MATH	CP Geometry	220	1		This course is an integrated course designed to meet the tenth grade Ohio math academic standards. The student will learn: number concepts; systems of linear equations; functions; polynomials; polygons; trigonometry; area and volume; congruence, similarity and transformations; measurements in circles; data analysis and statistics. Students will be provided with a graphing calculator on the first day of academics.
MATH	Hon Geometry-W	227	1	Y	The traditional Geometry topics of reasoning and proofs, similarity, trigonometry, quadrilaterals, transformations and properties of circles will be taught. Students will be provided with a graphing calculator on the first day of academics.
MATH	CP Alg 2/Trig	232	1		In this course, the student will learn functions and relations, linear functions, linear systems, direct and inverse variation, sequences, recursive functions, matrices, quadratic functions, imaginary and complex numbers, scatter plots of bivariate data, linear and quadratic regression, vectors, power functions, composition and inverses of functions, exponential and logarithmic functions, polynomial operations, factoring, and trigonometry. Students will be provided with a graphing calculator on the first day of academics.
MATH	Hn Alg2/Trig -W	237	1	Y	This course covers quadratic equations, irrational numbers, complex numbers, functions, sequences and series, trigonometry, and the conics. This course is purposely designed to be fast paced and content rich to prepare students for Precalculus. Students will be provided with a graphing calculator on the first day of academics.
MATH	Mathematical Modeling and Reasoning	251	1		Mathematics Modeling and Reasoning is designed to promote reasoning, problem-solving and modeling through thematic units focused on mathematical practices while reinforcing content in Number and Quantity, Algebra, Functions, Statistics and Probability and Geometry. It is a year-long course taught using student-centered pedagogy.
MATH	Business-Entrepreneur	201	1	Y	This course covers the basic skills needed to start and manage a small business operation, including but not limited to developing a business plan, feasibility assessment, marketing, basic accounting, financial management, customer service, business etiquette, economic principles, problem solving, legal compliance, and leadership skills.
MISC					
Misc.	College Credit Plus	982	varies		See your guidance counselor for more details.
Misc.	Study Hall	STUDY	0		With Guidance Counselor approval, students may have one study hall period per semester in place of an elective course.
Misc.	Directed Studies	970	0.5		Students will have direct supervision while completing assignments for core classes. This may include completion of homework, make-up of tests/quizzes, or completion of

					missed/incomplete classwork. Students will receive assistance in organization, note-taking, and study skills as needed. Preparation for standardized tests may be incorporated into the course. Students will receive a grade for participation.
Misc.	Service Learning - Tutoring	966	0.25		Students that are members of the National Honors Society (or with admin approval) may sign up to be a tutor in a Directed Studies/Supported Studies/Study Hall one period a day.
Misc.	Service Lab 1	991	P/F		Required service hours for freshmen students.
Misc.	Service Lab 2	992	P/F		Required service hours for sophomore students.
Misc.	Service Lab 3	993	P/F		Required service hours for junior students.
Misc.	Service Lab 4	994	P/F		Required service hours for senior students.
Health	Health	915A	0.5		This course is a comprehensive program that stresses the choices and skills necessary for enjoying total wellness. It gives the student the opportunity to acquire accurate information, to make responsible decisions and to develop positive attitudes and behaviors that promote a healthy lifestyle. This course is required of all sophomores.
Phys Ed	Phys Ed	913	0.5		A traditional Physical Education class, which focuses on general fitness and team sports. This class is designed to promote healthy habits into adulthood.
Phys.Ed	Phys Ed Athletic Waiver	920	0		Completion of two full seasons of any VASJ sanctioned sport. May be two seasons of the same sport or one season of two different sports, but both seasons must be completed while at VASJ. Completion of sport must be during a student's freshman, sophomore, or junior year. Students must maintain athletic eligibility (per OHSAA and VASJ) for a minimum of 70% of the regular season for credit to be applied.
RELIGION					
Religion	Religion 1	510	1		The purpose of this course is to give students a general knowledge and appreciation of the Sacred Scriptures and to introduce students to the Incarnational mystery of Jesus Christ. Through their study, they will come to encounter the living Word of God, Jesus Christ and to understand that Jesus Christ is the ultimate Revelation to us from God. This is a required course for all freshmen.
Religion	Religion 2	520	1		The purpose of this course is to help students understand all that God has done for humanity through His Son, Jesus Christ, and that in and through the Church, they encounter the living Jesus Christ. Through this course, students will learn that for all eternity, God has planned for humanity to share happiness with Him, which is accomplished through the redemption Christ won for us. Students will be introduced to the fact that the Church was founded by Christ, through the Apostles, and is sustained through the Holy Spirit. This course explores the

					origin, the human and divine elements, and the ongoing mission of the Church. This course is required for all sophomores.
Religion	Religion 3	530	1		The purpose of this course is to help students understand that they can encounter Christ today in a full and real way in and through the Sacraments, and especially through the Eucharist. Students will examine each of the Sacraments in detail so as to learn how they may encounter Christ throughout life. Students will also come to understand the manner in which the Catholic Church relates to other religions of the world as well as to other non-Catholic Christians. This course is required for all juniors.
Religion	Religion 4	540	1		The purpose of this course is to help students understand that it is only through Christ that they can fully live out God's plan for their lives. Students are to learn moral concepts and precepts that govern the lives of Christ's disciples. Students will be introduced to the Church's social teaching and will learn how Christ's concern for others, especially the poor and needy, is present today in the Church's mission. This course is required for all seniors.
SCIENCE					
Science	Science Lab Aide	381	0.25		Teacher recommendation and high science grades are required for a student to be a science lab aide.
Science	Hon Chem/Lab-W	337	1	Y	This course is offered to those with a high interest and ability in science. As with CP Chemistry, this is a comprehensive, college preparatory chemistry course. An emphasis is placed on complementing material discussed in lecture with laboratory experiments. Mathematical reasoning and problem solving are incorporated throughout the course so as to enhance these skills for each student. Students are encouraged to develop the skills necessary for them to think like scientists. Upon completion of this course, students should have a clear understanding of the basic principles of chemistry. Students will be introduced to the importance of safety in the chemistry laboratory and basic procedures required to conduct experiments in the chemistry laboratory. As an honors course, students will also explore more advanced topics in chemistry, such as organic chemistry and biochemistry. Students will be expected to demonstrate an advanced level of mathematical reasoning and problem solving skills.
Science	CP Chem/Lab	332	1		This course is a comprehensive college preparatory chemistry course. An emphasis is placed on complementing material discussed in lectures with laboratory experiments. Mathematical reasoning and problem solving are incorporated throughout the course so as to enhance these skills for each student. Students are encouraged to develop the skills necessary for them to think like scientists. Upon completion of this course students should have a clear understanding of the basic principles of chemistry. Students will be introduced to the importance of safety in the chemistry laboratory and basic procedures required to conduct experiments in the chemistry laboratory.

Science	CP Biology/Lab	325	1		Content areas will include characteristics of living things, the cell, plants, animals, human biology, and ecological interactions. This course will place an emphasis on developing an understanding of the scientific method, an understanding of laboratory experimentation, analytical skills and critical thinking skills. The aim of this course is to facilitate the development of individuals who will be literate in understanding science and technology.
Science	Hon Biology/Lab-W	327	1	Y	This course is designed for the academically talented student who is interested in science or a science-related career. It covers the same material as the CP Biology course, but an emphasis is placed on combining lecture with laboratory experiments. Mathematical reasoning and problem solving is stressed throughout the course. Included in this course are field trips, outside readings, science projects, and greater depth of coverage of topics. Admission to the course is limited to those who show an above-average aptitude in science and math as well as being academically talented in other areas.
Science	CP Physical Science	312	1		Topics covered will include the scientific method, data analysis, science and technology, earth science, chemistry and physics. There will be an emphasis on developing problem-solving skills and critical thinking skills. Laboratory experiments and demonstrations are included where appropriate to enhance student understanding of key concepts.
Science	Honors Physical Science	317	1	Y	Topics covered will include the scientific method, data analysis, science and technology, earth science, chemistry and physics to a greater depth than Physical Science. There will be an emphasis on developing problem-solving skills, critical thinking skills and computations. Laboratory experiments and demonstrations are included where appropriate to enhance student understanding of key concepts.
Science	Environmental Science	334	1		This course is designed to endow students with the necessary knowledge and skills that will enable them to apply scientific skills and processes on major Environmental Science concepts. Upon successful completion of this course, students should be able to use the scientific skills and processes and major Environmental Science concepts to understand interrelationships of the natural world and to analyze environmental issues and their solutions is placed on the human interactions with the Earth's geologic and environmental systems, predictability of a dynamic Earth, origin and evolution of the Earth system and universe, geochemical cycles and energy in the Earth system.
Science	CP Physics	345	1		In this course emphasis is placed on mathematical, experimental, and conceptual aspects of physics. Laboratory experiences are designed to illustrate phenomena and stimulate application of principles. Topics treated include Mechanics, Energy, Sound, Light, Electricity and Magnetism.

Science	Hon Physics/Lab -W	347	1		This course is designed to be the equivalent of a college introductory physics course usually taken by physics majors during their first year of college. This course is for academically talented students in science and math. Topics treated include: Mechanics, Sound, Light, Electricity, Magnetism, and Relativity.
SOCIAL STUDIES					
Soc. Stud.	20th Century America	153	0.5		The course presents a basic history of the United States throughout the 20th century through film. Students will receive foundational information about social, economic, political, and cultural trends throughout the century and will enhance this knowledge by viewing selected films produced during the periods or depicting the related periods. Some films will present historical events and some films will present prevailing attitudes. Course evaluation is based on discussion and reflection papers. This course is paired with History of Sports.
Soc. Stud.	History and Sports		0.5		In this course, students will examine the development of sports through various historical perspectives. There will be an emphasis on helping students gain a better understanding of the inner relationship that sport has on social, economic, cultural and political forces that are at work in the United States as well as the world. Students will examine the historical context as well as the significance of gender, race, ethnicity and social class through readings, primary sources, audio and visual materials as well as class discussions. Course is paired with 20th Century America.
Soc. Stud.	CP Wrld Hist	120	1		CP World History aims to expose the college bound students to the humanizing effect of studying the past in order to understand the present. Students of CP World History are expected to possess the skills necessary for the analysis of history. Students will continue to refine their ability to analyze, synthesize, and evaluate historical events and their significance and produce well-written essays.
Soc. Stud.	Hon Wld Hist-W	127	1	Y	Honors World History is designed for the self-motivated and self-directed learner who has expressed an interest and talent in history and has excellent reading and writing skills. This weighted college preparatory course requires students to be able to use a variety of historical sources to analyze, synthesize and evaluate historical events and their significance. Students in this course are challenged by in-class discussions, projects, and essay exams. The Honors World History course curriculum is presented as a chronological and thematic survey. Particular attention is paid to the connections that exist between the past and the present, and students are encouraged to stay abreast of current events and issues.
Soc. Stud.	Psychology	142	0.5		Psychology is a semester course which introduces the student to the study of human behavior through the examination of psychology as a tool for the better understanding of one's self and others. Topics of study include psychological research and

					methods, major approaches, learning and conditioning, memory, personality theories, emotion and motivation, mental illness and therapies. This course is good preparation for students planning to attend college. This course is paired with Sociology.
Soc. Stud.	Sociology	156	0.5		This semester course introduces the scientific study of human society, culture, and social interactions. Topics include socialization, research methods, diversity and inequality, cooperation and conflict, social change, social institutions, and organizations. This course is paired with Psychology.
Soc. Stud.	CP Amer Govt	140	1		The American Government presents an objective analysis of the foundations, structures, and functions of the US Government. This course includes a unit on civil liberties and pays particular attention to landmark Supreme Court cases and decisions, impacting civil liberties today. In addition, students examine major foreign and domestic policy issues confronting the US today. Students are challenged by independent projects and simulations. Students are encouraged to become active and informed citizens and to use their right to vote.
Soc. Stud.	Economics and Personal Finance	147	1		Economics is the study of scarcity. Throughout this required course, students will evaluate how individual and group decisions impact supply and demand and determine the success of the marketplace. Students will be introduced to the various market systems, the role of the United States in a global marketplace, the Federal Reserve System, and will utilize their skills in creating and operating a business. In personal finance, students will be introduced to the concepts of creating a budget, debt appropriateness, saving money, and investing. Students will utilize real life scenarios that will enable them to become better decision makers in regards to their personal finances.
Soc. Stud.	Honors Economics and Personal Finance	131	1	Y	This course invites students to broaden their understanding of how economic concepts apply to their everyday lives; including microeconomic and macroeconomic theory, the characteristics of mixed-market economies, the role of government in a free enterprise system and the global economy, and personal finance strategies. Throughout the course, students apply critical thinking skills while making practical economic choices. Students also master literacy skills through rigorous reading and writing activities. Students analyze data displays and write routinely and responsively in tasks and assignments that are based on scenarios, texts, activities, and examples. In more extensive, process-based writing lessons, students write full-length essays in informative and argumentative formats.
Soc. Stud.	AP US Hist-W	175	1		AP US History is offered to enable well-motivated students to take the Advanced Placement test in American History and upon passing, to obtain one year of college credit in American History if the college they chose to attend accepts the AP test results. This course will be an interpretive study of American History from the Age of Exploration to the present Presidential Administration. The major goal of this course will be to stimulate

					an examination of the causes and effects of historical events. Reading and writing will be interpretive in nature, and are designed to simulate the college experience. The AP US History Exam is required for students in this course.
Soc. Stud.	CP US History	130	1		CP US History is presented as a chronological and thematic survey of the American past for the college bound student. This course aims to excite students' curiosity regarding American heritage and to expose them to the individuals, forces, ideas and events that have shaped the flow of American history. The students will be presented with a global view of the American past, which takes into account the impact of world events on America and events in the US on the world. Students are challenged by in-class discussion, independent study projects, and essay exams.
Soc. Stud.	Honors American Government	143	1		Honors American Government empowers students to perform at higher levels as they engage in the following: analyzing historical documents and supplementary readings, working in the context of thematically categorized information, emphasizing free-response and document-based writing, contrasting opposing viewpoints, solving problems, etc. Students will develop and demonstrate their skills through participation in an extended research-based paper/project (e.g., history fair, participatory citizenship project, mock congressional hearing, projects for competitive evaluation, investment portfolio contests, or other teacher-directed projects).
Soc. Stud.	AP Govt & Politics US-W	145	1		AP American Government combines objective analyses and interpretations of the foundations, structures and decision-making process of Government in the US. This course emphasizes how the government organizes, harnesses and controls public power in a way that enhances a nation's values and purposes. Particular attention is paid to the role of the people in a free society. This course strives to stimulate the college experience for students who possess superior reading and writing skills and display an interest in government and politics. Students are required to take the Advanced Placement Exam in American Government and upon passing, obtain college credit in American Government if the college they choose to attend accepts the grade College Board awards.
SPECIAL SERVICES					
Misc.	Supported Studies	975	0.5		Students work on assignments directly with a teacher and/or Intervention Specialist. The Special Education department determines student eligibility.
MATH	Mod Math I (Modified Alg I)	281	1		This course is the first of two integrated courses that are designed to improve the proficiency level mathematics skills for the student as well as complete the Grade 9 Ohio math academic standards. The student will learn: number concepts, computation and problem solving; ratio and proportion; expressions, equations, and inequalities; graphing equations

					and inequalities; systems of linear equations; relationships; quadratic functions and equations, exponents, polynomials, data analysis and probability. The course is modified based on Individual Education Plans to meet a student's needs. Students will be provided with a graphing calculator on the first day of academics.
MATH	Mod Math II (Modified Geometry)	282	1		This course is an integrated course designed to meet the tenth grade Ohio math academic standards. The student will learn: number concepts; systems of linear equations; functions; polynomials; polygons; trigonometry; area and volume; congruence, similarity and transformations; measurements in circles; data analysis and statistics. The course is modified based on Individual Education Plans to meet a student's needs. Students will be provided with a graphing calculator on the first day of academics.
MATH	Mod Math III (Modified Algebra II/Trig)	283	1		In this course, the student will learn functions and relations, linear functions, linear systems, direct and inverse variation, sequences, recursive functions, matrices, quadratic functions, imaginary and complex numbers, scatter plots of bivariate data, linear and quadratic regression, vectors, power functions, composition and inverses of functions, exponential and logarithmic functions, polynomial operations, factoring, and trigonometry. The course is modified based on Individual Education Plans to meet a student's needs. Students will be provided with a graphing calculator on the first day of academics.
MATH	Mod Math IV (Modified Mathematical Modeling and Reasoning)	284	1		Mathematics Modeling and Reasoning is designed to promote reasoning, problem-solving and modeling through thematic units focused on mathematical practices while reinforcing content in Number and Quantity, Algebra, Functions, Statistics and Probability and Geometry. It is a year-long course taught using student-centered pedagogy. The course is modified based on Individual Education Plans to meet a student's needs. Students will be provided with a graphing calculator on the first day of academics.
English	Mod Eng I	81	1		This English course presents basic English skills for the high school student. Writing exercises focus on the development of well-written sentences, which use standard English grammar. Students then develop and write cohesive paragraphs to be expanded into a multi-paragraph essay in the fourth quarter. Literature studies include mythology, the short story, the novel and drama. Vocabulary development is stressed in conjunction with both writing and literature activities. The course is modified based on Individual Education Plans to meet a student's needs.
English	Mod Eng II	82	1		The CP English 2 course focuses on five areas of study. Students write multi-paragraph essays and a research paper while reinforcing the skills of well-written sentences. The novel and drama are emphasized, and the study of nonfiction and poetry are introduced. Vocabulary development continues in conjunction with writing and literature activities. Students learn

					and practice the skills of public speaking. The course is modified based on Individual Education Plans to meet a student's needs.
English	Mod Eng III	83	1		This course is a survey of American literature and its historical significance. Students read, interpret, and analyze selections from each major period in the development of American literature. In preparation for college-level writing as well as standardized tests such as the ACT, students compose well-structured and properly developed essays. The course is modified based on Individual Education Plans to meet a student's needs.
English	Mod Eng IV	84	1		This course is a survey of British Literature and its historical significance. Students read, interpret, and analyze selections from each historical period. Writing instruction focuses on the well-written essay. The course is modified based on Individual Education Plans to meet a student's needs.
TECH / ENGIN					
Tech/Engin	Tools and Machines	680	1		An introductory course that will expose students to a variety of different measuring, woodworking, hand, power, and pneumatic tools. We will complete a variety of projects using these tools while also learning about various materials such as wood, paint, abrasives, adhesives, and fasteners.
Tech/Engin	Introduction to Robotics	755S	0.66		Introduction to direct current circuits, binary and hexadecimal numbering systems, signed numbers and elementary programming language statements (confined to programming a robot in laboratory component). Providing requirements are met, the student will earn 2 credit hours from Cuyahoga Community College. Following enrollment procedure for CCP is mandatory-talk with your guidance counselor about qualifying.
Tech/Engin	Basic Robotics with Math	756S	0.66		Course provides an introduction to robotic principles using C++ programming with an emphasis on math. Providing requirements are met, the student will earn 2 credit hours from Cuyahoga Community College. Following enrollment procedure for CCP is mandatory- talk with your guidance counselor about qualifying.
Tech/Engin	Single Board Computers & Applications (Raspberry Pi)	768	1		An introductory course on Single Board Computers (SBC) with an emphasis on embedded applications. Topics include standard interface devices like keyboards, High-Definition Multimedia Interface (HDMI), Universal Serial Bus (USB), General Purpose Input and Output (GPIO) ports, conventional serial communications. Communicating with external sensors, like Global Positioning System (GPS), infrared transmission and detection, accelerometers, etc., are discussed from the aspect of programming. Lab work includes use of circuit simulation software. The Raspberry Pi is a mini computer that you build yourself. Explore how to get started with Pi, including installing the operating system, programming in Python, tinkering with electronics, using the terminal and setting up SSH. There are

					no prerequisites for this course. This course is paired with the Drones course. Providing requirements are met, the student will earn 3 credits hours from Cuyahoga Community College. Following enrollment procedure for CCP is mandatory- talk with your guidance counselor about qualifying.
Tech/Engin	Unmanned Aerial Vehicles- DRONES!	769	1		In this course students will address the emerging market for unmanned aerial vehicles (drones), their ethical use, safety issues, legal issues, electrical and mechanical components, on-board control systems, software and remote control. Students will plan, build, and fly drones. There are no prerequisites for this course. This course is paired with the Raspberry Pi course. Providing requirements are met, the student will earn 3 credit hours from Cuyahoga Community College. Following enrollment procedure for CCP is mandatory. Talk with your guidance counselor to see if you qualify for this class.
Tech/Engin	Technology Applications	750	1		Required course for all freshmen. First year students will learn the Google app and technology applications needed for all VASJ courses they will be taking in the coming four years.
Tech/Engin	Intro to Computer Science/Game Programming	766	1		This course is an engaging course that explores a variety of basic computational thinking and programming concepts through a project-based learning environment. Every unit culminates in a comprehensive project. A consultant who works within the programming industry partners with the course teacher. Roughly 75% of student time is spent building projects and practicing the skills they are learning.