



Course catalog
2012 - 2013

MISSION STATEMENT

St. John Vianney High School is dedicated to forming young men for spiritual, academic and personal excellence in the Catholic, Marianist tradition.

St. John Vianney High School receives its identity and mission by participating in the contemporary education mission of the Catholic Church and that of its Marianist sponsors, the Society of Mary--Province of the United States. Canonically and legally, Vianney is associated with the Society of Mary--Province of the United States through the "Members of the Vianney High School Corporation" and "the Vianney High School Board of Directors."

Accordingly, Vianney emphasizes the Marianist expression of the teaching ministry of Jesus Christ, specifically as He is "Son of God become Son of Mary for the salvation of all," while seeking to cooperate with Mary in her mission of bringing the fullness of Christ to all within a caring, family-like community.

This approach is summarized in the thoughts of the Marianists' founder Blessed William Joseph Chaminade: "Through the Mother to the Son" and "we teach only in order to educate, and we educate in order to Christianize."

THE 4-by-4 BLOCK SCHEDULE

St. John Vianney High School operates on the 4-by-4 block schedule. This is an innovative approach to education, which has proven to be successful in schools across the country. The two most visible differences from the traditional schedule are longer class periods (85 minutes) and the completion of courses in one semester rather than in the traditional two semesters. Another important component of the 4-by-4 block schedule is more interactive learning between the teacher and student and among the students themselves. Cooperative learning techniques are employed frequently.

The regular daily schedule includes four 85-minute academic periods. All students take four subjects each semester for a total of eight courses for the year. Students select their courses for the year, and the Assistant Principal will make the determination as to which of these courses will be scheduled for each semester. All courses except Concert Band and its related Religion sections are offered during an 85-minute period for one semester.

The 4-by-4 block schedule helps students by reducing their course load so that they study fewer subjects at one time. Since they are studying fewer subjects, they are able to spend more time working on each course. Results have shown that students' grades improve, discipline problems decrease, and students grow in self-esteem and critical thinking skills.

The administration, faculty, and staff of St. John Vianney High School use the 4-by-4 block schedule because they believe that this program benefits students, parents, faculty and the entire Vianney community.

GENERAL ACADEMIC INFORMATION

The information contained in this guide should be used by the student and his parents to make intelligent choices about the courses he will take next school year. All course information is subject to change if enrollment figures or staffing needs change. Students would be notified and asked to make alternate selections.

Graduation Requirements

In order to earn a diploma from St. John Vianney High School, a student must earn four credits per semester and eight credits per year. He must also fulfill the departmental requirements. In addition, completion of Social Service hours and the Junior Social Service Project (SSP) are requirements for graduation from St. John Vianney High School. **Note: Seniors who need a particular credit for graduation will be given preference in scheduling electives.**

Vianney's graduation requirements in each academic discipline are:

Letter grades are awarded according to the following scale:

Discipline	Credit
Religion	4
English	4 or 4.5*
Social Studies	3
Mathematics	3
Science	3 or 3.5*
Foreign Language	2
Physical Education	2
Fine Arts	1
Practical Arts	1 or 2**
Social Service Project	100 hours total

Letter Grade	Grade Points
A	4.0
B	3.0
C	2.0
D	1.0
F	0.0

*Beginning with the **class of 2016**, all students will have additional half credits required in English and Science during the freshman year.

Beginning with the **class of 2014, all students will have an additional credit of Personal Finance & Computer Applications required in the senior year.

An extra .5 is added to any honors, advanced college credit or advanced placement course before computing the current or cumulative grade point average.

Course Selections

Colleges and universities base their acceptance of students on how well the student performs in high school and the types of courses the student takes. Historically, ninety-eight percent of our graduates go to college. Therefore, the Vianney curriculum is designed to prepare all our young men for a positive college experience.

Honors courses are for students who have demonstrated high achievement in a given subject area. These students are taught more intensely with emphasis on quantity and depth of material learned. Students enter honors courses only in their strongest academic areas. A bonus of .5 of a grade is added to an honors course before the cumulative and current averages are computed.

Advanced College Credit courses are taught by highly trained Vianney faculty in affiliation with St. Louis University and the University of Missouri – St. Louis. Juniors or seniors earning a grade of A, B, or C in these courses receive college credit through the respective college. Usually, these credits can be transferred to other universities that our students attend. These courses also receive an additional .5 on their grade point average. Each college requires a separate registration and fee for these courses. In order to register for any Advanced College Credit course, a student MUST have a CUMULATIVE GPA OF 3.0 OR GREATER.

Advanced Placement courses are offered to juniors and seniors and some sophomores. These courses are the equivalent of regular college courses. Students in these courses must take the advanced placement exams in May of each year. Most universities accept a score of 3 (on a scale of 1-5) or higher as credit. These courses are also given an additional .5 on the student's grade point average.

Semester Honor Roll

Students are placed on the Honor Roll based on their success during each semester.

First Honors

1. A grade point average of 3.8 or higher for the semester
2. No conduct evaluation below satisfactory
3. No academic grade lower than C

Second Honors

1. A grade point average between 3.0 and 3.79 for the semester
2. No conduct evaluation below satisfactory
3. No academic grade lower than C

Honors Graduate Curriculum

To be considered an Honors Graduate of Vianney a student must

- 1) have a cumulative GPA of 3.75 after 7 semesters
- 2) have had no failures in courses at Vianney
- 3) have never been placed on disciplinary probation while at Vianney and

Honors Graduates will have taken a minimum of 10 courses from the list provided here. It is recommended that they take 4 years of Foreign Language and completed Math courses through Analysis (if they did not begin in the Honors Math Curriculum).

English: 250, 350, 450

Foreign Language: 250, 350, 450

Math: 250, 350, 450, 500, 550, 555

Science: SCC 150, 450, 550
SCB 450, 550
SCP 450

Social Studies: 350, 450

Electives: FAA 350, FAA 450, PRA 350, PRA 450

Credit Deficiencies and Re-admission

Any student who fails a course must make arrangements to recover the necessary credit. Any student with any credit deficiency at the end of an academic year may return to Vianney for the next academic year only if the following conditions are met:

The student must successfully make-up ALL credit deficiencies during the summer immediately following the failure. The parents, student, and the Assistant Principal should work closely together to see that deficiencies are properly made-up.

2. The student must have acceptable conduct evaluations.
3. The administration must have confidence that academic failure will not continue the next academic year.

The National Honor Society

Sophomores and juniors become eligible for membership in the Gold Circle Chapter of the National Honor Society at Vianney. The object of the organization is to create enthusiasm for scholarship, to stimulate a desire to render service, to promote worthy leadership, and to encourage the development of character in the students at Vianney.

Besides a cumulative GPA of at least 3.75, requirements include demonstrated and verifiable Service, Leadership, and Character as described in the Student and Parent Handbook. As Vianney transitions to the 4.0 grade point scale, this minimum GPA requirement will be adjusted for the classes of 2011 and 2012.

Policy Regarding Change in Courses

Selection of courses should be done only after serious, careful, and thoughtful consultation among student, parents, teachers, and counselors. Therefore, once you choose your courses and they are verified by you and your parents and approved by the Assistant Principal, **your selections are considered final.**

Dissatisfaction with a course or teacher, academic difficulties in a course, displeasure with the schedule, or a change of mind are not valid reasons for requesting a change of course. Students will be expected to accept responsibility for their decisions.

For any such change, there is a \$40.00 fee attached to the change. This fee is imposed to impress upon both student and parent the seriousness with which the process of course selection is to be taken as well as the inconvenience that is caused in the final scheduling process by such changes.

No course can be dropped from a student's schedule once a class begins except for serious and compelling reasons that are determined by the Guidance Office and Administration.

ACADEMY OF THE HUMANITIES
Religion, English & Social Studies

Mr. Eric Sargent, Dean

RELIGION COURSES

Philosophy: The primary purpose and goal of the Religion Department is to proclaim to our students the Gospel message of Jesus Christ; to herald the Good News that Jesus Christ, Son of God and Son of Mary, became man that we would be redeemed. To that end, the members of the department strive to provide a comprehensive four-year program that gives the students cognitive, affective and behavioral learning outcomes in the Catholic, Marianist faith tradition. Members of the department endeavor to teach their students in order to educate them; i.e., to draw out from their life experiences and from the teacher's life experiences, the wisdom and the insights that come from applying God's word to these everyday human experiences. This involves knowing them as persons and showing respect for their God-given human dignity. The department works closely with Campus Ministry to develop age appropriate retreat and prayer experiences that reflect the goals of faith development for the students, including integration of the Characteristics of Marianist Education.

Course: Hebrew Scriptures, Marianist Studies, Theology of the Body (REL 100)

Prerequisite: Freshman status

Description: The goal of this course is to give an overview of the Old Testament, the major themes of its sacred writings, and its impact on our Faith. Upon completion of this course, the student should be able to comfortably interact with the Hebrew Scriptures. This course will also contain a unit of study on the Theology of the Body, the Catholic Church's views of the spirituality of our sexuality. An introduction to the Society of Mary (the Marianists), their founder Blessed William Joseph Chaminade, and the Characteristics of Marianist Education is also provided.

Course: Christian Scriptures, History of Our Church, Sacraments of Initiation (REL 200)

Prerequisite: Sophomore status

Description: The sophomore year stresses the Christian Scriptures, Church History and the Sacraments of Initiation. The student will be given an overview of the Christian Scriptures: the major themes of sacred writings and their impact on faith. Church history unfolds in the Acts of the Apostles and continues her history through apostolic times to the present.

Course: Living the Gospel Values and Sacraments of Healing (REL 300)

Prerequisite: Junior status

Description: A major portion of the course deals with Christian morality. Gospel Values is a study of the moral issues of our society, with Jesus Christ as the exemplar of complete moral humanness. The student will develop the ability to critically think and establish value criteria that motivates his moral life and affects who he is becoming. This course also addresses a Catholic understanding of service, justice and peace as well as how to alleviate injustices by providing a foundation for a just world in light of Catholic social teachings. The Social Service Project (SSP) complements the course and is an important part of our curriculum. Sacramental study will continue with the Sacraments of Reconciliation and Anointing of the Sick.

Course: Vocation: Sacraments of Ministry, Vocation and Adult Faith (REL 400)

Prerequisite: Senior status

Description: The senior course covers two principle areas: adult faith and vocations. The Sacraments of Holy Orders and Matrimony will be covered in this course. The vocations covered are single, married, religious and ordained ministry. Since most are called by God to the married state, it will be emphasized. The student will realize and develop his spirituality through discernment and awareness of the integrity of his humanity. As a final preparation for adult Christian life, the student will review principal Catholic beliefs.

Course: Religion/Band (REL600/605)

Prerequisite: Must be registered in Concert Band and not registered in a regular religion course.

Description: Special religion sections for Concert Band members only. Course work covers the same material as REL 100 through 400 in alternating years. Sections are divided for combined freshmen/sophomores and juniors/seniors. *Students will be told which textbooks to purchase for their sections of religion in May.*

ENGLISH & LANGUAGE ARTS COURSES

Philosophy: The English program at St. John Vianney High School has as its purpose to improve the students' ability to use the English language correctly and effectively in speaking and in writing assignments and to develop and deepen his appreciation of literature. Furthermore, the program provides the opportunity that will help the student become a more mature and stable human being by encountering in the works of great writers the varied dimensions of the human situation. The ultimate thrust of these accumulated experiences is to develop Catholic, Christian men capable of using the knowledge gained in Language Arts to understand the world around them, to describe accurately and honestly their idea of that world, and to serve others.

Course: Freshman English (ENG 100)

Prerequisite: Freshman status

Description: The ninth grade English program consists of studying various forms of literature. Reading comprehension and analytic skills are expanded through the study of literary types: short story, novel, non-fiction, poetry and drama. One Shakespearean play is included. Composition centers on thematic development and critical analysis of literature. The course also features an extensive review of grammar. Proper mechanics, usage, vocabulary and spelling are emphasized throughout the course.

Course: Freshman English (ENG 101)

Prerequisite: Freshman status

Description: This freshman course is usually recommended for those students who have had difficulty in English before entering Vianney, and who require a slower pace and additional review and instruction. It has as its focus literature and grammar/composition. The focus of literature is a study of the principal literary types: the short story, the essay, poetry, drama, and the novel. The grammar and composition component will complement and reinforce the skills taught in ENG 110. The course also initiates a vocabulary study.

Course: Freshman English Honors (ENG 150)

Prerequisite: Freshman status

Description: This course provides the challenge and enrichment for students who are avid readers and good writers with a solid background in correct English usage and mature sentence structure and style. The course begins with a review of basic grammar with an aim to developing more effective writers. The steps in the writing process are reviewed as they apply to the paragraph and then on to the development of full essays. This class includes the study of several literary types, including a Shakespearean drama. This course also initiates a vocabulary study. Depth and breadth of knowledge and understanding and willingness for involved discussion are a requirement for students enrolling in Honors English.

Course: Grammar & Composition (ENG 110)

Prerequisite: REQUIRED FOR ALL FRESHMEN (.5 credit)

Description: Continuing with skills learned in eighth grade, students will explore language, including grade-level vocabulary, as a means of improving written communication skills. They will study simple, compound, and complex sentences and punctuation of each type. Students will learn how to select and narrow topics, develop clear thesis statements, and organize ideas to include introductions, support, transitions, and conclusions. They will utilize process writing, which involves prewriting and editing to produce polished final drafts, and learn to adapt writing styles for a variety of purposes and audiences.

Course: Sophomore English (ENG 200)

Prerequisite: Sophomore status

Description: The study of literary types and composition skills form the basis of this course. The skills of analysis and critical reading are developed through the study of universal themes. The major emphasis in composition is on techniques and organizational patterns of exposition and research. Instruction in the process of writing formal essays continues throughout the year. Special attention is given to problems of usage and mechanics, which persist in students' written English. Improvement and expansion in vocabulary is stressed.

Course: Sophomore English Honors (ENG 250)

Prerequisite: Sophomore status and recommendation of the current teacher

Description: This honors course is for highly motivated students with well-developed skills in reading and writing. The candidate should evidence a thorough understanding of the steps in the writing process, have a command of the language and be able to apply it correctly in his essays. Literary themes are addressed through the various styles of writing. Students must be willing to read and discuss challenging texts and to write about the ideas and issues about which they read. Grammar study is based on the need as demonstrated in the students' writing assignments. Vocabulary growth and expansion is also included throughout the semester.

Course: Junior English (ENG 300)

Prerequisite: Junior status

Description: This course emphasizes the characteristics of American literature through a chronological or thematic approach to American literature. Discussion and writing about authors' themes develop careful, critical readers and logical, investigative thinkers. This course seeks to develop composition skills of analytical and interpretive writing by emphasizing and then moving beyond the expository essay. Students will also work toward refining the research process. Vocabulary is also studied.

Course: Junior English Honors (ENG 350)

Prerequisite: Junior status and recommendation of the current teacher

Description: Using a chronological or thematic approach to American literature, this idea-oriented course focuses on the literary roots of American writers. Literary emphasis in the course is on the reading of works by major American authors, intense class discussion of ideas and philosophical viewpoints. Students' writing of interpretive and analytical essays with a more mature approach and mature style with clear expression is also a focus. Students will also continue to refine the research process. Special attention is given to problems of usage and mechanics that persist in the students' oral and written English. Vocabulary is also studied.

Course: Senior English (ENG 400)

Prerequisite: Senior status

Description: The course is designed to refine the communication skills of writing, of literature study, and of speaking so as to allow the students to be successful in college. Writing covers a variety of writing types with an accent on the process of writing, culminating in the development and writing of a formal research paper using the Modern Language Association (MLA) format. In addition, the course reviews the sixteen most frequent errors made in senior compositions with a view of improving the correctness and effectiveness of writing. The literature study begins with an in-depth review of literary terms with an emphasis on the analytical approach to the American and British authors in several genres, including poetry. Speaking assignments derived from literature round out the communication skills. Continued study of vocabulary is emphasized.

Course: Senior English ACC (ENG 450) *

Prerequisite: Approval of the ACC instructor

Description: The course introduces students to, and helps them to develop, the rhetorical strategies necessary for writing persuasively in academic, professional and public settings. Integral to those persuasive strategies is the use of information and methods of proof valued by specific academic and professional communities; thus, English 450 must address methods of argument and research. This course also introduces students to significant readings in the world of literature. Students will become aware of the styles, structures, vocabulary and themes of many notable writers such as Dickens, Shakespeare and Joyce. Students are expected to do close readings of poems, short stories, plays and essays. This course should be attractive to students who wish to excel and who wish to get a head start on their college careers. It can be taken for 6 college credit hours through St. Louis University.

ENGLISH ELECTIVE**Course: Journalism/Newspaper & Yearbook Production (ENG 510)**

Prerequisite: Open to all divisions.

Description: Journalism/Newspaper provides an introduction to basic newspaper writing and production techniques through a hands-on approach to developing journalistic skills. Activities lead students to solve problems, exercise editorial judgment, deal tactfully with others, gather facts, and express themselves with clarity and force in composing interesting stories, strong story leads, clever photo captions, and arresting headlines. Students gain a working knowledge of newspaper design, computer word processing, and desktop publishing in producing the school newspaper, *The Griffin*. Class members plan the format and organization, decide on the content of the annual yearbook, write articles about school activities, organizations and clubs, write captions for pictures, and design page layouts. Students gain a working knowledge of yearbook publications, computer word processing, and desktop publishing in producing the school yearbook, *Talon*. In addition, the students provide photographic coverage of school events.

SOCIAL STUDIES COURSES

Through the study of history, students explore the events, ideas, cultures and philosophies that form and influence society. This background in history will cultivate the student's ability to analyze and interpret historical materials in order to better understand the world in which he lives. With a better understanding of history, students will become more educated citizens; people who will take an active role in becoming responsible, contributing members of society. In this role of citizen, and as part of the overall philosophy of educating the whole person in the Catholic Marianist Tradition, students will be better prepared to actively work toward the leadership and betterment of society.

Philosophy: Our goals consist of but are not restricted to:

- 1) Educating the whole person, with a special emphasis placed on the promotion of the tenets of Catholic social teaching. Catholic social teaching rests upon two pivotal affirmations: One being that all persons are and ought to be part of society, while all social, economic and political institutions should serve the betterment of humankind.
- 2) Teaching history as a series of interconnected events, which are inextricably linked as the story of humankind continues to unfold.
- 3) Fostering a greater knowledge and appreciation of the tremendous diversity that exists within humankind.
- 4) Enabling each student to form his own hypothesis on a controversial topic in history, to engage in independent research around this hypothesis, and to form a final opinion based on the facts researched.

Course: Ancient & Medieval World Civilizations (SST 100)

Prerequisite: Freshman status

Description: This course will allow the student to evaluate various civilizations from man's appearance on earth to the Renaissance from a global perspective. Specifically, the student will witness the beginnings of civilization, the growth of civilizations, the world in transition, and the beginnings of the modern world.

Course: Modern World Civilizations (SST 200)

Prerequisite: SST 100 and sophomore status

Description: This course is a continuation of material covered in Ancient World Civilizations (SST 100). This course studies the expansion of the modern world, the modern world in crisis, and the world since 1945. The students are expected to complete a research paper in this course.

Course: American History (SST 300)

Prerequisite: SST 100 and SST 200 and junior status

Description: This course provides the student with a background in American History to develop the student's abilities in interpreting and analyzing historical material. Beginning with the Age of European Exploration, this course explores the various historical themes, which run through the seventeenth, eighteenth, nineteenth and twentieth centuries. Topics include: Colonialism, the War for Independence, the Constitutional Convention, Federalism, the Era of Good Feelings, Jacksonian Democracy, Slavery, Sectionalism, States' Rights, the Civil War, the Industrial Revolution, Imperialism, Reform Movements, the World Wars, the New Deal and the Cold War.

Course: United States History Honors ACC (SST350) *

Prerequisite: Departmental approval and junior or senior status

Description: This course is a more intensive study of American History for students who have demonstrated a strong understanding of history in their freshman and sophomore years. The same topics will be covered in this course as in American History, but on a more in-depth scale. In addition, the students will learn to interpret history using ideas of historians as a basis for learning. Students may elect to register for six hours of college credit through the 1-8-1-8 program sponsored by St. Louis University.

A senior may take this course after taking SST300 as a junior.

Social Studies Electives

Course: U.S. Government (SST 220)

Prerequisite: Junior, or senior status

In this course, each student examines the dynamics and forces that shape the U.S. political system. Each student will investigate and evaluate the foundations of American government, the Congress, its structure, the system of checks and balances, the law-making process, the Presidency, Presidential powers, and finally, the Federal and State Court systems. Special consideration is given to the U.S. Constitution, the Bill of Rights, Civil Rights, and Civil Liberties.

Course: Current Issues (SST 400)

Prerequisite: Junior or senior status

Description: This course provides students the opportunity to examine challenges facing the United States and the global community. The course will provide an in-depth examination of political and economic institutions, the prevalence of prejudice and discrimination, and issues in education. In addition to these enduring issues, the class will analyze other contemporary topics, as well as recent events. Students will frequently engage in discussion and debate, and a heavy emphasis is placed on research to promote the formulation of informed opinions.

Course: Modern European History Honors ACC (SST 450) *

Prerequisite: Junior or senior status

Description: This course is an accelerated study of European history from fourteenth century to the present. Topics explored are the Renaissance, Reformation, Enlightenment, Exploration, Absolutism, Scientific Revolution, French Revolution, Napoleon, Nationalism and the rise of nation-states, Industrialization, Imperialism, World War I, the rise of totalitarian governments, World War II, the Cold War and the fall of the Soviet Union. An emphasis is placed on the analysis and interpretation of primary and secondary source documents as well as independent research. Students may elect to register for three hours of college credit through the St. Louis University 1818 Advance College Credit program.

Course: Economics (SSY 300)

Prerequisite: Open to juniors and seniors with approval of the instructor

Description: Economics is designed to provide students with a firm understanding of the dynamics of our economic system. In Economics, students discover the complexities involved in attempting to maintain economic stability. Students learn the roles that businesses, consumers, and the government play in our economy. *Economics can be taken as either a social studies or a practical arts credit toward graduation.*

Course: Economics AP (SSY 350)

Prerequisite: Seniors status, PRA 300, and AP instructor approval

Description: This one semester course will prepare students for the Advanced Placement test in Economics. The focus will be a blend of macro and micro-economic principles. Included will be in-depth study of production possibilities, supply and demand, economic systems, types of markets, monetary and fiscal policy, marginal utility analysis, marginal productivity, the role of government, circular flow, measuring economic output, the global economy and many other topics. Students must take the AP Exam in May.

ACADEMY OF FINE ARTS & MODERN LANGUAGES Fine Arts & Modern Foreign Languages

Mrs. Barb Fullenkamp, Dean

FINE ARTS COURSES

Philosophy: The Fine Arts Department of St. John Vianney High School seeks to help students gain knowledge, skill and ability in the arts, while providing them with an experience of community in the environment in which they work and a sense of creativity and refinement in their lives. These qualities can lead them to a greater wholeness of being and a stronger appreciation of creation and the Creator.

Course: Introduction to the Arts (FAA 100)

Required for all sophomores effective with class of 2012 (sophomores who are taking or who have already taken a band class are exempt.)

Pre-requisite: None

Description: This survey-style course is designed as an introduction to the visual and performing arts. Course material is team-taught to offer to the student experiences as an observer and participant in art, music, theatre, art history, art criticism, film, sculpture, and dance. Particular emphasis is placed on studio art, music, and drama.

Studio Art

Course: Art 1 (FAA 110)

Prerequisite: None (Open to all divisions)

Description: This course is designed as an introduction to the visual arts. Course material is taught to offer the student knowledge, background, and experience in art—art history, drawing, design, color theory, watercolor painting, printmaking, and more. No previous art experience is necessary.

Course: Art 2 (FAA 200)

Open to sophomores, juniors and seniors

Prerequisite: Introduction to the Arts or Art 1 and signature of instructor

Description: Having experienced various media and techniques in Art I, the student in Art II will begin a portfolio, explore new media, such as acrylic painting and printmaking, and delve more deeply into those areas of art with which he is already familiar. He is encouraged to demonstrate greater creativity, skill, and refinement in his artwork. A further study of art history is required.

Course: Drawing/Design 1 (FAA 350) *

Prerequisite: Introduction to the Arts or Art 1 and Art 2 and signature of instructor. Open to juniors and seniors.

Description: This course is especially designed for the student who is interested in studying art in college. The student has the opportunity to build on his portfolio begun in Art II, with emphasis on drawing, design, painting and art history. A portion of this course involves independent projects determined by student and teacher.

Course: Drawing/Design 2 (FAA 450) *

Prerequisite: Introduction to the Arts or Art 1, Art 2, Drawing/Design 1 with signature of instructor. Open to seniors only.

Description: This course is designed for the serious art student who, with the guidance of the art instructor, is self-motivated and self-directed enough to design his own art program to fulfill his college portfolio needs. The student will focus on drawing and painting, design and art history.

Theater

Course: Theater Arts (Drama) (FAD 100)

Prerequisite: Signature of Instructor. Open to sophomores, juniors, and seniors.

Description: This course will provide the student with experience in understanding, analyzing and creating all aspects of a theatrical production. Particular emphasis will be placed on developing the special skills needed when an actor prepares a play for performance. Relying heavily on individual monologues and scene study from the classic and modern stage, this class will take the student from script to production to performance to critique. Some **assignments will require students to participate in activities outside of school time.**

Course: Stagecraft (FAD 110)

Prerequisite: Signature of instructor, preference will be given to seniors

Description: This course is an introduction to technical theatre. Course work will include set/scenic design from script interpretation to and including set construction. Stage lighting, costume design and stage property building will be included. This is a hands-on workshop class.

Course: Stage Management (FAD 111)

Prerequisite: Stagecrafts; Open to seniors with approval of the instructor.

Description: This course is designed to give the student a working knowledge of stage management. We will focus on the duties of the Stage Manager as well as the relationships with associated artists. Part of the course work will involve a discussion of problems related to stage management in current and past productions. The course objectives are that the student will be able to 1) identify the various production department heads and their function 2) understand the duties of the stage manager 3) understand the machinations of a professional theatre and 4) be able to assume the duties of a stage manager in a high school and/or college production.

Course: Drama 2 (FAD 200)

Prerequisite: Drama I and approval of the instructor. Open to juniors and seniors.

Description: Course work will concentrate on scene study with an emphasis on characterization and theatrical styles. Course work will include an introduction to directing.

Course: Speech (FAD 220)

Prerequisite: Open to sophomores, juniors, and seniors with approval of the instructor.

Description: In this student-centered class, public speaking skills are taught and reinforced in a practical format. The course builds confidence and poise, and helps develop skills employed in effective speaking. The techniques for handling of speech details through proven psychological principles are taught. The speaker's personal persuasiveness, and the principles of effective presentation and delivery are also covered in this course. The principles of speech are applied to practical speaking situations, using the informative and persuasive speeches. Basic concepts, formats and techniques of debate and argumentation are also included.

Course: Film Study (FAD 300)

Prerequisite: Junior or senior status and approval of the instructor

Description: The course objective is to expose students to a variety of film genres helping them gain an appreciation for the art form and increase their ability to use writing as a form of critique. As an introductory course, the focus will be on how a film is made and the director as an artist. Students will view many films in an attempt to provide an overview of the last one hundred years of cinema.

Music

Course: Beginning Band (FAM 100)

Prerequisite: Open to freshmen and sophomores with approval of the band director.

Description: Beginning Band is designed for the student who has had little or no experience in playing a band instrument. This is a performance-oriented course, which strives to guide the student in attaining proficiency on his chosen band instrument. Instruction is offered on the following instruments: flute, clarinet, saxophone, oboe, bassoon, French horn, trumpet, trombone, baritone horn, tuba, and percussion. Each student must provide his own instrument, either by ownership or rental. Vianney owns a number of instruments rented to students on a yearly basis. To assure a balanced instrumentation, enrollment of some instruments may be limited. Students successfully completing Beginning Band are recommended and strongly encouraged to participate in Concert Band in following years. Freshmen may take Beginning Band in place of Physical Education.

Course: Music Theory (FAM 200)

Prerequisite: Open to sophomores, juniors, and seniors.

Description: Music Theory is designed for the more serious music student. This class explores the notational system of music: scales, intervals, chords, chord progressions, key signatures, time signatures, duple and triple meter, ear training.

Course: Vocal Music (FAM 300)

Prerequisite: Open to all divisions with approval of the instructor

Description: The dual purpose of the vocal music class is performance and musicianship. The students will be expected to learn a variety of music and to perform at various functions throughout the year. The course will also offer a study in history and fundamentals of music.

Course: Concert Band (FAM 500/505)

Prerequisite: FAM 100 or previous band experience and the approval of the band director. Open to all divisions.

Description: Concert Band is designed for the student who has already achieved some degree of proficiency on a band instrument. **Admittance to this class is by audition and approval of the band director. To assure balanced instrumentation, enrollment on some instruments will be limited.** Concert Band is a performance-oriented course in which various styles and types of music are explored and performed. Students are required to attend all concerts, performances, and evaluations in which the Concert Band participates. Freshmen and sophomores may take Concert Band in place of Physical Education. **This course meets alternately with a special religion class for band members for 2 semesters.**

MODERN LANGUAGE COURSES

Philosophy: The Modern Language Department is dedicated to furthering the Characteristics of Marianist Education. We present a strong language program to address the need for communication among the people of our world and to offer our students a quality, integral education. We help our students discover the world, encouraging an attitude of adaptation and openness to new ideas. The student experiences culture for their personal enrichment and as a means to participate in other communities, extending their membership in the Marianist family to the entire world. We recognize the need to promote service, justice and peace wherever we go. Although customs may vary, the student discovers that Christian values remain the same. Exploring these issues provides a platform for strengthening our own faith.

German**Course: German 1 (FLG 100)**

Prerequisite: None

Description: This course introduces students to the four basic skills of communication in German through videos that immerse them in authentic language and culture, a text that meets National Foreign Language Standards and individual and group activities. We will encourage retention of the language with study strategies and present materials in ways to help various learning styles and ability levels. Students will become acquainted with the people and cultures of Germany, Austria, Switzerland and Liechtenstein. There will be daily homework and class participation is required. Several short projects will enhance the learning experience and introduce students to aspects of German culture. Students are encouraged to plan on a four year commitment.

Note: Freshmen who have had German in grade school or middle school are encouraged to seek placement in level 2 through teacher recommendation. Two years of foreign language are required regardless of entry level.

Course: German 2 (FLG200)

Prerequisite: Successful completion of German 1

Description: German 200 builds on the skills learned in German 100. Greater emphasis is placed on speaking and reading while a more detailed study of grammar and the written language is made. German culture is learned through supplementary material, videos and projects. Class participation is required. Short role plays will be included to simulate common social situations. Daily homework assignments will be given. Students are encouraged to continue their study of German. (German 3 is required for students who begin at this level.)

Course: German 2 Honors (FLG 250)

Prerequisite: Successful completion of German 1 with a B average and departmental approval

Description: German 250 builds on the skills developed in German 100. Greater emphasis is placed on speaking and reading while a more detailed study of grammar and the written language is made. German culture is learned through supplementary material, videos and projects. Class participation is required. Role plays and memorization of short selections in German are included. Daily homework assignments will be given. This section proceeds at a more rapid pace and includes additional material to make the course more challenging. Students are encouraged to continue their study of German. (German 3 is required for students who begin at this level.)

Course: German 3 (FLG 300)

Prerequisite: Successful completion of German 2 with a B average and departmental approval

Description: German 300 continues the emphasis on speaking-listening phase of language study as well as building on the reading and writing skills and increase grammatical expertise. Videos and CD's that accompany the text will be used to better listening skills. Readings in German newspapers and Internet sources will be discussed. Readings of German fairy tales will also be used. Through the readings and projects the students will gain further knowledge of the German-speaking culture. A research project is required. Homework is expected daily.

Course: German 3 Honors (FLG 350)

Prerequisite: Successful completion of German 2 with a B average and departmental approval

Description: German 350 is similar to German 300 with the exception of better accuracy in completed assignments and additional homework. Videos and CD's that accompany the text will be used to better listening skills. Readings in German newspapers and Internet sources will be discussed. Readings of German fairy tales will also be used. Through the readings and projects the students will gain further knowledge of the German-speaking culture. A research project is required. Homework is expected daily.

Course: German 4 (FLG 400)

Prerequisite: Successful completion of German 3 with a B average and departmental approval

Description: German 400 brings the students to a greater enjoyment of the language through communication and meaningful study of literary selections. Further grammatical topics are explored. Culture is studied through reading and discussion. Class participation is necessary in both English and German. Special emphasis is placed on the lives and culture of German-speaking people past and present. Daily homework will be assigned and a German business research project will be included.

Course: German 4 Honors (FLG 450)

Prerequisite: Successful completion of German 3 with a B average and departmental approval

Description: German 450 brings the students to a greater enjoyment of the language through communication and meaningful study of literary selections. Further grammatical topics are explored. Culture is studied through reading and discussion. Class participation is necessary in both English and German. Special emphasis is placed on the lives and culture of German-speaking people past and present. Daily homework will be assigned and a German business research project will be included. A more diligent effort will be expected from students as is consistent with an honors course.

Spanish

Course: Spanish 1 (FLS 100)

Prerequisite: None

Description: This course introduces the student to the basic elements of foreign language skills—listening, speaking, reading comprehension and writing. The culture of Spanish-speaking countries is studied through text articles, supplementary material and projects. There is daily homework to reinforce the day's material. Class participation is required. Several short projects will be completed during the semester and there is an emphasis on vocabulary.

Note: Freshmen who have had Spanish in grade school may be allowed to advance to the second level on the basis of a test and the recommendation of their elementary school language teacher. ***Two years of language are required regardless of entry level.***

Course: Spanish 2 (FLS 200)

Prerequisite: Successful completion of Spanish 1.

Description: This course builds on the basic Spanish skills taught in Spanish 100: speaking, listening, reading comprehension and writing. Hispanic culture is introduced through text articles, audiovisual materials and projects. Class participation is required. Several short projects are required and vocabulary is emphasized. (Spanish 3 is required for students who begin at this level.)

Course: Spanish 2 Honors (FLS 250)

Prerequisite: Successful completion of Spanish 1 with a B average and departmental approval.

Description: This course builds on the basic Spanish skills taught in Spanish 100—speaking, listening, reading comprehension and writing. Hispanic culture is introduced through text articles, audiovisual materials and projects. Class participation is required in Spanish and English. Several short projects are required. This section proceeds at a more rapid rate and includes supplementary material to challenge the more advanced student. (Spanish 3 is required for students who begin at this level.)

Course: Spanish 3 (FLS 300)

Prerequisite: Successful completion of Spanish II with a B average and departmental approval.

Description: Spanish 300 continues the emphasis on communication while continuing to increase grammatical knowledge and vocabulary. The course begins with a review of the previous years' work and builds on that foundation. Grammatical study includes more complex constructions involving feelings, opinions and desires. A survey of the Spanish speaking world continues through the course. Listening activities, written assignments, paired conversations, and authentic speakers are all included. Class participation is necessary in both English and Spanish.

Course: Spanish 3 Honors ACC (FLS 350)

Prerequisite: Successful completion of Spanish 250 with a B average and ACC instructor approval.

Description: Spanish 350 continues the emphasis on communication while continuing to increase grammatical knowledge and vocabulary. The course begins with a review of the previous years' work and builds on that foundation. Grammatical study includes more complex constructions involving feelings, opinions and desires. A survey of the Spanish speaking world continues through the course. Listening activities, written assignments, paired conversations, and authentic speakers are all included. Class participation is necessary in both English and Spanish. This section proceeds at a more rapid rate, explores topics in greater depth, and requires more listening and speaking in Spanish than FLS 300. College credit through St. Louis University's 1818 Program is available with approval of the instructor.

Course: Spanish 4 (FLS 400)

Prerequisite: Successful completion of Spanish 3 with a B average and departmental approval.

Description: Spanish 400 brings the students to an enjoyment of the use of the language, both through communication and meaningful study of literary selections. The emphasis continues on the listening/speaking phase of the language. The course includes an in-depth review of the grammar and usage of the language. Further grammatical topics are explored. Culture is studied through reading and discussion. Class participation is necessary in both English and Spanish. Normal class business is conducted, as much as possible, in Spanish. Special emphasis is placed on the lives and culture of Spanish speaking people historically and today.

Course: Spanish 4 Honors ACC (FLS 450)

Prerequisite: Successful completion of Spanish 350 with a B average and ACC instructor approval

Description: Spanish 450 brings the students to an enjoyment of the use of the language, both through communication and meaningful study of literary selections. The course begins with an in-depth review of the grammar and usage of the language. Further grammatical topics are explored. Class participation is necessary in both English and Spanish. Normal class business is conducted, as much as possible, in Spanish. Special emphasis is placed on vocabulary, reading and speaking. College credit through St. Louis University's 1818 Program is available with approval of the instructor.

American Sign Language

Course: American Sign Language 1 (FLA 100)

Prerequisite: Approval by guidance counselors and/or the learning consultant.

American Sign Language teaches a non-spoken language that expresses concepts and ideas rather than words through demonstration, modeling and practice. A textbook and DVD are required. ASL is accepted as a modern foreign language course for college admission. Admission is by recommendation and approval of guidance counselors or the learning consultant. This program currently runs outside the regular school day and is presently taught from 2:00-3:30 PM on Monday afternoons. There is a separate fee for this course.

Course: American Sign Language 2 (FLA 200)

Prerequisite: Successful completion of American Sign Language 1 and approval by guidance counselors and/or the learning consultant.

This course continues the acquisition of skill in expressing oneself through a non-spoken language that expresses concepts and ideas rather than words. A textbook and DVD are required. ASL is accepted as a modern foreign language course for college admissions. This program currently runs outside the regular school day and is presently taught from 2:00-3:30 PM on Monday afternoons. There is a separate fee for this course.

ACADEMY OF APPLIED SCIENCES

Math & Science

Mrs. Linda Follis, Dean

MATHEMATICS COURSES

Philosophy: The Mathematics department embraces the philosophy of St. John Vianney High School as the informing spirit of its teaching ministry. The department, therefore, aims at developing mature students, who will take their place as responsible persons in today's world. Specifically, the department strives to develop in students of all academic levels the ability to reason logically in the "world" of numbers, to apply reasoning in problem solving, and to learn the language of mathematics as a requisite for a continuing study of mathematics, to be pursued in career and life choices.

General Math Program

Note: Admission into courses in this program is only possible with approval of the Mathematics or Guidance Department. In addition, MAT 101 and 201 count as ONE core math credit for NCAA and many college admission standards.

Course: Introduction to Algebra (MAT 101)

Prerequisite: Freshman status and departmental approval

Description: Introduction to Algebra 1 is the first course in a two semester program of elementary algebra. This sequence was developed for students who, by nature of their algebra background and maturity, can expect to learn algebra more effectively by having it taught at a slower pace. In this beginning course in algebra, there is extensive review of basic arithmetic skills. Emphasis will be placed on arithmetic operations with whole numbers, fractions and polynomials. Solving linear equations will be covered, along with word problems and their solutions. Exponents will be introduced. This course will be taught in the first semester of the freshman year and followed immediately in the second semester by MAT 201.

Course: Algebra 1 (MAT 201)

Prerequisite: MAT 101 and/or departmental approval

Description: Algebra I is the second course in a two semester program of Algebra 1. This second course covers exponents, both positive and negative, in some detail, factoring polynomials, adding and subtracting rational expressions, and systems of equations will be presented. Solving quadratic functions and the quadratic formula will conclude this course.

Course: Informal Geometry (MAT301)

Prerequisite: MAT 101 and 201 and/or departmental approval

Description: This course integrates plane geometry, space geometry, and algebra into a unified structure. Experience is gained in deductive reasoning that leads to clear, creative thinking and an appreciation for the need of precision in language. Knowledge is gained of the relationship of points, lines, planes, and space. A great emphasis is placed on the hands-on method. Classes move at a reduced speed depending on the mastery of material by students. Upon completion of this course, a student would usually choose MAT 401 as a senior.

Course: Algebra 2 / Finite Mathematics (MAT 401)

This course is required for students who have completed MAT 101, 201 and 301.

Description: This course will be an extension of some of the concepts covered in Algebra MAT101 and Algebra MAT201. These concepts include linear equations and inequalities and their graphs, products and factors of polynomials, rational numbers and quadratic equations. Topics applying these concepts include linear programming, matrices, logic, and the mathematics of finance.

College Prep Math Program

Course: Algebra 1 (MAT 100)

Prerequisite: Freshman status

Description: The topics covered in this freshman course are: arithmetic operations with polynomials, powers and roots, real numbers, inequalities, and working with quadratic equations, which includes graphing and solving. Classes move at varying speeds depending on the mastery of material and previous math background.

Course: Algebra 2 (MAT 200)

Prerequisite: Algebra I and sophomore status

Description: Topics covered in this course are: Operations with polynomials and polynomial functions, irrational and complex numbers, quadratic equations and functions, rational expressions, matrices, basic trigonometric functions. Additionally, fundamental concepts of Algebra I are reviewed and re-emphasized. Classes move at various speeds depending on the mastery of material and previous math background.

Course: Geometry (MAT 300 and MAT 311*)

Prerequisite: Algebra II and junior status

Description: This course integrates plane geometry, space geometry, and algebra into a unified structure. Experience is gained in deductive reasoning, which leads to clear, creative thinking and an appreciation for the need of precision in language. Knowledge is gained of the relationship of points, lines, planes, and space. A great emphasis is placed on the hands-on method. Classes move at a normal rate depending on the mastery of material by students. Upon successful completion of this course, a student may choose analysis, trigonometry or probability & statistics as a senior.

- ***MAT 311 is set up for juniors who wish to take Physics (SCP 300) so that Geometry is in the first semester and Physics is in the second.***

Course: Analysis (MAT 400)

Prerequisite: Algebra II and Geometry

Description: This is a pre-calculus course that examines number systems and elementary functions. Basic course content comprises the algebra of real numbers, complex numbers and vectors, as well as analytic geometry and trigonometry. Polynomial, exponential and logarithmic functions are treated. Much emphasis is placed on the concept of limit as applied to sequences and functions. The conic sections are discussed, as is the derived function and its mathematical interpretations.

Course: Probability and Statistics (MAT 405)

Prerequisite: Junior or senior status & Algebra 2 (Taken in conjunction with trigonometry)

Description: Probability and Statistics will be offered for .5 unit of credit. Topics covered are: displaying data, frequency distributions, summarizing data (measures of central tendencies and measures of dispersion), data analysis and probability.

Course: Trigonometry (MAT 410)

Prerequisite: Junior or senior status & Algebra 2 (Taken in conjunction with Probability and Statistics)

Description: This .5 unit of credit course covers the basic ideas of trigonometry, including the concepts of trigonometric functions, the solution of triangles, defining and using radian measure, proving identities, and the theory of inverse functions.

Honors Math Program

Course: Algebra 1 Honors (MAT 150)

Prerequisite: Departmental recommendation and freshman status

Description: Some students who have been successful in mathematics and who would like to progress to a calculus course in high school will take Algebra in an accelerated manner. If successful, these students will be invited to continue in the honors program. Topics covered in this course are similar to those listed in Algebra I (MAT 100) but are covered in greater depth, to a higher complexity and at a quicker pace.

Course: Algebra 2 Honors (MAT 250)

Prerequisite: Algebra (MAT 150), departmental approval, and freshman or sophomore status

Description: Admission to this course is dependent upon successful completion of Algebra I (MAT 150) and the recommendation of the instructor. This course is the second in the sequence offered in the honors mathematics program. Topics covered in this course are similar to those listed in Algebra II (MAT 200) but are covered in greater depth, to a higher complexity and at a quicker pace.

Course: Geometry Honors (MAT 350)

Prerequisite: MAT 250, departmental approval, and sophomore or junior status

Description: Admission into this course is dependent upon successful completion of Algebra II (MAT 250) and the recommendation of the instructor. This course is the third in the sequence offered in the honors mathematics program. Topics covered in this course are similar to those listed in Geometry (MAT 300) but are covered in greater depth, to a higher complexity and at a quicker pace. Geometry Honors focuses on 2 column proofs of theorems and corollaries.

Course: Analysis Honors (MAT 450)

Prerequisite: Geometry (MAT 350) and departmental approval

Description: This is a pre-calculus course that examines number systems and elementary functions. Basic course context comprises the algebra of real numbers, complex numbers and vectors, as well as analytic geometry and trigonometry. Polynomial, exponential and logarithmic functions are treated. Much emphasis is placed on the concept of limit as applied to sequences and functions. The conic sections are discussed, as is the derived function and its mathematical interpretations

Course: Statistics AP (MAT 500)

Prerequisite: Successful completion of Geometry (MAT350) and departmental approval.

Description: The AP Statistics course is a two semester course that is intended to cover the topics most often found in introductory statistics courses taught in college and university departments of statistics or mathematics. Statistics is an essential tool in all of the behavioral, biological and social sciences as well as, the fields of business and engineering. The first half of the fall semester will be used to discuss selected topics in trigonometry, and exponential and logarithmic functions; a comprehensive knowledge of these functions will insure success in the Statistics course. Students who enroll in the course should do so with the understanding that they will take the AP Statistics Exam in May.

Course: Calculus AB 1 Honors (MAT 550)

Prerequisite: Successful completion of Analysis (MAT 450), instructor approval, and senior status

Description: This is the final course in the accelerated mathematics program at Vianney High School. The calculus course begins to cover the properties of a function and the elements of both differential and integral calculus. Theory and applications of the derivative and the integral are stressed.

Course: Calculus AB 2 AP (MAT 555)

Prerequisite: Successful completion of Calculus AB 1 (MAT 550), senior status, AP instructor approval

Description: This course is a full credit course in calculus and continues the study begun in the MAT 550 course. It will complete the study and culminate in the students' taking the AP exam in May.

SCIENCE COURSES

Philosophy: The Science Department is committed to providing opportunities for students to gain knowledge and appreciation of the natural sciences. The curriculum emphasizes the process of scientific inquiry so students can discover and interpret scientific knowledge, develop interests and appreciation for science and scientists, and realize that these processes can be applied in the Marianist tradition to the solution of present and future problems.

Forensic Science**Course: Forensic Science (SCA 100)**

Prerequisite: REQUIRED FOR ALL FRESHMEN; (.5 credit)

Forensic science is the application of basic biological, chemical, and physical science principles and technological practices to study criminal and civil issues. This course will cover pathology, anthropology, ballistics, trace evidence, biological fluids, DNA, and fingerprints. This is a laboratory and project based class in which students will become investigators and apply the process of science to real-life scenarios. This course will be paired with a .5 credit course in Grammar and Composition where each course is taught for a half of the semester.

Biology**Course: Biology 1 (SCB 100)**

Prerequisite: Freshman status

Description: Biology I is an introductory class designed to provide a fundamental understanding of life sciences as well as to promote scientific reasoning skills. Some of the topics covered are: characteristics of life, methods of science, structure, function and interactions of cells, genetics and inheritance patterns and evolution. Laboratories, projects, current events and interactive instruction are used to reinforce concept mastery.

Course: Biology 1 Honors (SCB 150)

Prerequisite: Honors level freshmen

Description: Biology 150 is an advanced life science class designed to integrate scientific reasoning skills with the rapid growth of thought and information in this field. Some of the topics to be mastered include scientific methods, chemistry of life, energy and the biosphere, structure, function, and interactions of cells, DNA and proteins, genetics and inheritance patterns and evolution. Laboratories, projects, current events discussions, independent research projects and interactive instruction are used to enforce concept mastery.

Course: Biology 2 Honors (SCB 450) taught in the first semester each year

Prerequisite: Biology I and Chemistry I, instructor approval and junior or senior status.

Description: The goals of Biology II are to provide an environment where students can learn to deal with the rapid growth of thought and information in the biological sciences and to prepare students to take the Advanced Placement Biology exam. (Students may take SCB 450 and NOT continue with SCB 550 in which case, they do not take the AP Exam.) In order to accomplish these goals and to develop a firm understanding of the principal concepts of biology, the student will cover many more topics and content than in the first year course. Specific areas of study and approximate amounts of time are as follows: molecules and cells, genetics and evolution. In addition to the classroom or "lecture time" 50 to 60 hours, an additional 30 hours of laboratory time will be spent. ***This course is designed and implemented so as to provide students with experience of an introductory college biology course.***

Course: Biology 3 AP (SCB 550) taught in the second semester each year

Prerequisite: SCB 450 in the previous semester, AP instructor approval

Description: The goal of Advanced Placement Biology is to prepare students to take the Advanced Placement Examination. The following topics are discussed in depth: organisms and populations and comparative anatomy. In addition, students will engage in 30 to 40 hours of laboratory time throughout the semester. Students are required to take the AP Exam in May. ***This course is designed and implemented so as to provide students with experience of an introductory college biology course.***

Chemistry

Course: Chemistry 1 (SCC 100)

Prerequisite: Biology 1

Description: Chemistry 1 is a one-semester, one-credit course. Chemistry 1 includes the study of the definitions of chemistry, historical models of the atom, electron configuration, ionic and covalent bonding, molecular geometry, scientific measurements and unit conversions, the mole concept, chemical reactions, and stoichiometry. Lab work is included to reinforce concepts.

Course: Chemistry 1 Honors (SCC 150)

Prerequisite: Biology 1 or Biology I Honors, and instructor approval.

Description: Chemistry 1 is a one-semester, one-credit course. Chemistry 1 includes the study of the definitions of chemistry, historical models of the atom, electron configuration, ionic and covalent bonding, molecular geometry, scientific measurements and unit conversions, the mole concept, chemical reactions, and stoichiometry, gas laws, solution chemistry, and oxidation reduction reactions. Lab work is included to reinforce concepts.

Course: Chemistry 2 (SCC 200)

Prerequisite: Chemistry I Honors or Chemistry I with grade of B or better, and chemistry instructor approval.

Description: Chemistry II continues from Chemistry 1 with the study of the phases of matter, gaseous state chemistry, liquid and solution chemistry, acids and bases, rate of reaction, chemical equilibrium, oxidation-reduction reactions, and organic chemistry. Substantial laboratory work introduces and reinforces concepts.

Course: Chemistry 2 Honors (SCC 450)

Prerequisite: Chemistry I Honors and chemistry instructor approval.

Description: Chemistry II Honors is a one-semester, one-credit course that includes the in-depth study of basic chemistry principles in preparation for taking AP chemistry the following semester.

Topics covered include: organic substances, phases of matter, acids and bases, liquid and solution chemistry, thermal chemistry, kinetics, and equilibrium.

Chemical calculations are stressed and laboratory work is aligned to the AP requirements.

A laboratory notebook will be kept to assist in the transfer of college credit.

Course: Chemistry 3 AP (SCC 550)

Prerequisite: SCC 450 (Chemistry II Honors) and AP instructor approval.

Description: Chemistry III AP is a one-semester, one-credit course that emphasizes preparation for the AP exam. Students taking this class are required to take the AP exam in May.

Topics include: Equilibrium of acids and bases, oxidation-reduction reactions and electrochemistry, thermodynamics, nuclear reactions, cation analysis, and expectations of the AP exam. Atomic structure, periodicity, bonding, reactions, stoichiometry, gaseous state chemistry, and kinetics are reviewed in preparation for the AP Exam.

Chemical calculations are stressed and laboratory work is aligned to the AP requirements.

A laboratory notebook will be kept to assist in the transfer of college credit.

Environmental Science

Course: Environmental Science (SCE 300)

Prerequisite: Senior status and approval of the teacher and guidance counselor

Description: This course builds upon a foundation of ecology, the study of interrelationships among organisms. After having mastered the principles of ecology, the student finds that the course branches into environmental science, which is a blend of many scientific disciplines.

Course: Environmental Science AP (SCE 550)

Prerequisite: Senior status and approval of the teacher and guidance counselor

Description: The course will cover the same topics as SCE 300 but in more depth and additional topics as well as lab work. Student will be required to take the AP Exam in May.

Physics

Course: Conceptual Physics (SCP 100)

Prerequisite: Junior or senior status and approval from the department or guidance counselor; sophomores only with approval of the guidance counselor.

Description: Conceptual Physics is about the rules of nature. This course emphasizes comprehension rather than mathematical computation. Physics is treated conceptually in down-to-earth English rather than in mathematical language. The mathematical structure of physics will appear in equations but the equations will be seen as guides to thinking rather than as recipes for computation. The goal of this course is to enjoy physics by understanding it.

Course: Physics (SCP 300)

Prerequisite: Algebra I and Geometry with Trigonometry; junior or senior status.

Description: Physics is designed to give the student a fundamental understanding of the basic laws that govern our universe. The areas of study are: kinematics, laws of motion, gravity, energy, and wave phenomena. This course depends heavily on the laboratory experience to teach and enhance those basic concepts.

Course: Physics 2 Honors ACC (SCP 450)

Prerequisite: Honors Algebra 2, Geometry with Trigonometry, and Chemistry; instructor approval.

Description: This is the first semester of a general college physics course targeted to students interested in a career related to the physical sciences. Topics included are: kinematics, dynamics, statics, energy, and wave phenomena. Laboratory experiences are included to reinforce major concepts and teach proper collection and use of data.

Four hours of Advance College Credit (including one hour of laboratory credit) is available through St. Louis University.

ACADEMY OF PRACTICAL ARTS & PHYSICAL EDUCATION

Practical Arts (Business Education, Technical Drawing, Technology) & Physical Education

Mr. Brian Haddock, Dean

PRACTICAL ARTS COURSES

Philosophy: The Practical Arts Department offers a variety of courses that are designed to enhance the educational experience of St. John Vianney students. The Practical Arts department provides students with the background and confidence that is necessary to succeed on the college level. The courses offered are electives that appeal to students who wish to pursue college credit courses as well as those students who simply need to fulfill their practical arts credit. The Practical Arts Department is committed to accommodating each of our students so that he can grow intellectually.

Course: Personal Finance & Computer Applications (PRA 105)

Prerequisite: None. REQUIRED FOR CLASS OF 2014 AS SENIORS in 2013-14.

Personal Finance is an essential tool that will teach students how to manage their money as they enter adulthood. Our Personal Finance component of the class will be taught utilizing the Dave Ramsey Financial Tool Curriculum and will be integrated with Computer Applications. Using our Microsoft Office software, students will begin to learn how money management can be practically put to use in Microsoft Word, Excel, & PowerPoint. Personal Finance & Computer Applications are taught on Windows based workstations equipped with Microsoft Office that includes Word (word processor), Excel (spreadsheet), and PowerPoint (slide show presentations). Students are also taught the concepts and vocabulary for each application so they can easily transfer their money management into software packages. Students will learn valuable computer skills, which will help them function in a highly technological society.

Course: Computer Programming (PRA 110)

Prerequisite: Junior or senior status and approval of the instructor

Description: Computer Programming is taught on Windows based workstations. Each unit is equipped with Microsoft Visual Basic.NET. An emphasis is placed on fundamental programming concepts including variables, decision structures, loops, procedures, arrays and files. Learning to program offers the student an invaluable opportunity to develop problem-solving skills. Students will learn to access a problem, break a problem down and then write a program to solve that problem. The importance of good programming style will be emphasized from the very beginning.

Course: Web Page Design (PRA 115)

Prerequisites: Junior or senior status and approval of the instructor

Description: The purpose of Web Page Design is to take the student from the beginning to the end of the construction of a web site in a logical way that builds confidence in creating a web page. The course uses *Adobe Dreamweaver* to create a well-designed web site that will be easy to navigate. It will show the difference between print and web design. It will cover graphic and technical details along with the design theory explaining what makes good and bad web design. This course will allow the student to use his creativity to create his own website using project specifications. Web Page Design is taught on Windows based workstations. Each unit is equipped with Microsoft Office.

Course: Freshman Leadership (PRA 120)

Required for all Freshmen

Freshman Leadership is a course designed to develop leadership skills, personal skills and study skills to become a successful high school student in a safe classroom environment. This course will teach and use the skills needed to be a leader in high school and beyond. Students will be challenged to develop and apply leadership principles to their lives. Students will learn by DOING—thus building self-confidence by learning how to speak, present ideas, prepare for tests and work cooperatively in challenging situations. This course is designed to help students grow and mature as they never have before and to help them become positive role models for Vianney High School. As the students complete this course, they will be able to: improve study skills, grow in self-confidence, have a better sense of self-concept and make more responsible decisions.

Course: Financial Accounting (PRA 310)

Prerequisite: Open to juniors and seniors with approval of the instructor

Description: Financial accounting is an elective in the area of business education. It is an introduction to the generally accepted accounting principles and practices of the accounting profession. It introduces the proper techniques for gathering, summarizing and making financial reports for external users. Students learn to make logical business decisions based upon the financial reports they prepare. Computers are an integral part of the class as students learn integrated software packages and spreadsheets in preparing financial reports.

Course: Business & Personal Law (PRA 320)

Prerequisite: Open to juniors and seniors with approval of the instructor

Description: Business Law is an elective in the area of business education. It draws upon the experiences of each student showing how law affects his daily life. The purpose of the course is to help students realize legal relationships as they arise and how to properly handle those situations. Major topics include the court system, contracts, credit, property, employment, business organizations, commercial paper, wills, trusts and mock trial competition. Proper business ethics and critical thinking are stressed in all topics.

Course: Engineering Drawing (PRA 400)

Prerequisite: Open to juniors and seniors

Description: In Engineering Drawing basic drawing skills are taught to help create an awareness of the drawing world. Engineering drawing is the principal means of expressing ideas in a technical world. A variety of drawing experiences are offered from traditional mechanical drawing to the use of the industry standard Auto CAD 2000 LT program. Students are expected to devote additional time outside of the classroom to this course.

Course: Architectural Drawing (PRA 410)

Prerequisite: Engineering Drawing (PRA 400)

Description: This course uses some mechanical drawing skill with a strong emphasis in computer aided drafting, using the Auto CAD 2000 LT program and the Sketch-Up program. Students taking this advanced class explore the world of architects and architecture. The students are introduced to a satisfying and creative profession—a profession of ideas and planning and of intelligent design. Students working in groups on the final project (provided by a local architectural firm) give solutions to a specific problem to a panel of architects using Power Point presentation skills. Students are expected to devote additional time outside the classroom to this course.

Course: Financial Accounting Honors ACC (PRA 450)

Prerequisite: Open to seniors with approval of course instructor

Description: Honors financial accounting is an elective in the area of business education for students with an interest in pursuing a business degree in college. The course objective is to establish a foundation in the generally accepted accounting principles and practices of the accounting profession. It introduces the proper techniques for gathering, summarizing and making financial reports for external users. Students learn to make logical business decisions based upon the financial reports they prepare. The difference between this class and the Financial Accounting (PRA 310) class is the amount of material covered in the detail of specific topics. 1-8-1-8 Advanced College Credit is available through St. Louis University.

Course: Teen Leadership (PRA 500)

Prerequisite: Approval of Mr. Kevin Walsh only.

Teen Leadership is a course designed to develop leadership skills, personal skills, and professional skills in a safe classroom environment. This course is designed to teach and use the skills needed to be a leader. Students will be challenged to evaluate, develop, and apply the principles that will be the foundation of their life. Students will learn by DOING—thus building self-confidence by learning how to speak, how to present ideas, and how to work cooperatively in challenging situations with challenging people. This course is designed to help students grow and learn, as they never have before. At the completion of this course, students will be able to: handle peer pressure, build meaningful relationships, demonstrate creative problem solving, accept personal responsibility for their thoughts, attitudes, and actions, make more responsible decisions, realize the importance of principles, standards, and beliefs and take healthy risks in order to be successful.

PHYSICAL EDUCATION COURSES

Philosophy: The Physical Education program at St. John Vianney High School is designed to help each student achieve maximum development of basic physical skills, fitness, and good health habits. Furthermore, the program fosters moral, spiritual, social and cultural growth by providing guidelines and examples to help students realize and practice fair and mature judgments that are consistent with good sportsmanship, fair play and Christian values.

Course: Physical Education / Health (PED 200)

Prerequisite: Sophomore status

Description: The sophomore program equips the student with the skills necessary to perform in areas of touch football, soccer, weight training, basketball, volleyball, and softball. Attention is also given to basic conditioning and physical fitness testing. Health is incorporated in PED 200. Health consists of a series of classes and discussions on relevant health topics gathered from the *Glencoe Health* textbook with emphasis on the individual's development of positive health attitudes and behavior.

This course also teaches students to prevent, care for, and respond to emergencies. There is also an emphasis on understanding and preventing STDs.

Course: Weight Training for Sophomores (PED 202) (Limited to a maximum enrollment of 30.)

Prerequisite: Sophomore status

Description: Activities will be designed to improve strength, flexibility, endurance and cardiovascular muscles tailored to sophomores. Individualized programs will be developed with instructor supervision. The use of free weights and the weight machines will help participants improve muscular development. General nutrition, anatomy and healthy life-style choices are covered in this course. Challenging physical demands will be made upon students. If you have a health condition, check with the department head and your physician before enrolling in this course. Also, due to the nature of this course, an instructor reserves the right to limit this course to those students truly desiring to improve their physical abilities through a regimented training program.

Course: Weight Training & Physical Fitness (PED 300, 301, 302) (Limited to a maximum enrollment of 30.)

Prerequisite: Grade of C or better in PED 202. Open to juniors and seniors but seniors will have priority in scheduling if it is their first request for the course. **This course cannot be repeated.**

Description: Activities will be designed to improve strength, flexibility, endurance and cardiovascular muscles. Individualized programs will be developed with instructor supervision. The use of free weights and the weight machines will help participants improve muscular development. General nutrition, anatomy and healthy life-style choices are covered in this course.

Challenging physical demands will be made upon students. If you have a health condition, check with the department head and your physician before enrolling in this course. Also, due to the nature of this course, an instructor reserves the right to limit this course to those students truly desiring to improve their physical abilities through a regimented training program.

GUIDANCE AND COUNSELING

The Guidance and Counseling Department lives by the words of Blessed Chaminade: "Ours is a great work, a magnificent work." (Blessed William Joseph Chaminade, 1761-1850). We believe it is important for each student to recognize and appreciate his abilities and his potential. We believe that the more he develops in the academic, social, physical, and spiritual the more likely he is to live a fuller life and to be able to share his gifts with others. The Guidance Department functions, as follows:

1.) We serve as advocates and a liaison between the student and institutions. We help students deal effectively with colleges and universities, summer schools, the NCAA, clinical referrals, mental health professionals and any number of other outside institutions. We also teach students how to make use of our Guidance & Counseling printed and media resources.

2.) We help and encourage students to develop their ability to make realistic and beneficial decisions. We constantly ask students to evaluate their motives and their goals, identify resources, consider options and consequences, and initiate a plan for implementation. Our students make choices in various areas of their lives, and we try to encourage them to analyze their decisions and to see if there may be better alternatives. These might involve organizing a homework routine, establishing better relationships with family, friends and teachers or planning for the financial aspects of college and higher education.

In all things we rely on the inspiration of Blessed Chaminade as he wrote, "*Our school teachers are missionaries to the rising generation, and it is important that they enlighten and develop the intellect of the young, and for their hearts to the practice of virtue.*"

Counselor	Student Last Names	Phone Extension	E-mail Account
Brother Jim Maus, SM	All Freshmen	120	jmaus@vianney.com
Mrs. Teresa Zielonko Seniors, Juniors & Sophomores	A – E	119	tzielonko@vianney.com
Mr. Bob Meyer Seniors, Juniors & Sophomores	F- M	121	bmeyer@vianney.com
Mrs. Linda Sodemann Seniors, Juniors & Sophomores	N – Z	117	lsodemann@vianney.com
Mrs. Pattie Czajkowski, Learning Consultant	Special assignees	148	pczajkowski@vianney.com

FOUR YEAR PLANNING WORKSHEET

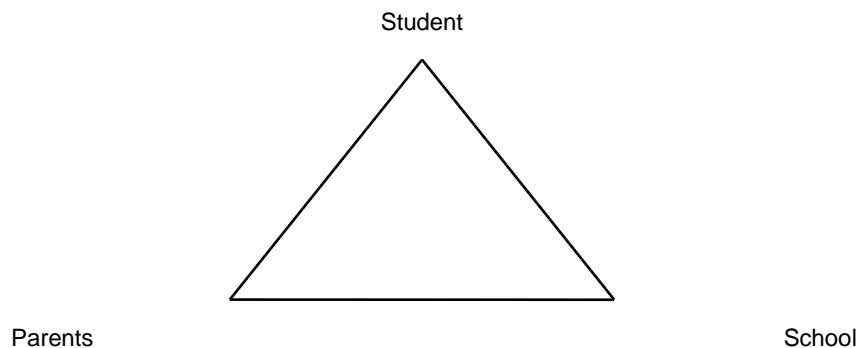
On the next page is a four-year matrix for you and your parents to use as a worksheet in planning your course selections for next year. Check off/circle the courses that you have taken, are taking and want to take for your remaining years at Vianney.

Here are some points to keep in mind:

- Sometimes it's better to start with senior year and work backwards. That way, you can plan to take any prerequisites your sophomore and junior years to get into the senior courses you want
- As you select a course name in the box, also write down the credit that course carries. Almost all Vianney courses are worth 1.0 credit. You can circle titles there or write in a course title/number in the box.
- You will need eight (8) courses school each year – four each semester.
- A Religion and English are required each year.

Have fun with your planning form, and don't be afraid to get messy. If you have questions, be sure to ask your teacher, the subject teacher, counselor or assistant principal for advice and guidance.

A triangle is an appropriate symbol for the successful education of a young person. Home and school may not always agree on individual school-related issues, but they must agree to support each other in general and to communicate honestly with each other.



The St. John Vianney High School Mission Statement (Curriculum Guide, p. 1) describes the school's responsibilities toward each student. This statement clearly states the spiritual, educational and social values that Vianney strives to instill in each student.

In order to effectively educate the students at Vianney, the faculty needs the support of parents. It is toward this goal that we ask you to read the Parental Responsibilities below.

1. I support Vianney's religious heritage and will encourage my student to participate in all religious instruction, both in class and at community liturgies, assemblies and school service requirements / opportunities.
 2. I support Vianney's tradition of academic excellence. I will encourage my student to take full advantage of educational opportunities through his teachers in his classrooms.
 3. I support Vianney's environment of personal responsibility and caring for others and will encourage my student to abide by the behavioral and attendance requirements as set forth in the *Student / Parent Handbook*.
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**ST. JOHN VIANNEY HIGH SCHOOL
FOUR YEAR PLANNING WORKSHEET**

® = Required courses

AP = Advance Placement

ACC = Advanced College Credit through St. Louis University

SUBJECT (R)=REQUIRED CREDIT FOR GRADUATION	FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
Religion (4)	Hebrew Scriptures ®	Christian Scriptures & Church History ®	Living Gospel Values & Sacraments ®	Vocations & Adult Faith, & Sacraments ®
English (4.5)	Freshman English ® Grammar & Comp ® (.5)	Sophomore English ®	Junior English ®	Senior English ® or Senior English ACC
Social Studies (3)	Ancient and Medieval World Civilizations ®	Modern World Civilizations ®	American History ® or United States History ACC	Social Studies Elective
Mathematics (3)	Algebra 1 ® or Honors Algebra 1	Geometry ® or Geometry Honors with Algebra 2 Honors	Algebra 2 ® , or Honors Analysis	AP Calculus or Analysis or Trig/Probability-Stats
Science (3.5)	Biology ® or Biology Honors Forensic Science ® (.5)	Chemistry 1 ®	Physics or Biology 2 or Chemistry 2 or Conc Phys or Env Sci	Physics or Biology 2 or Chemistry 2 or Conc Phys or Env Sci or AP Env. Sci.
Modern Foreign Language (2)	1 ® German 1 Spanish 1 Am. Sign Lang. 1	1® German 2 Spanish 2 Am. Sign Lang. 2	3rd year Foreign Language (optional)	4th year Foreign Language (optional)
Physical Education (2)		Physical Education and Health ®	Weight Training	Weight Training
Fine Arts (1)		Introduction to the Arts® ----- Band (Optional) -----	Elective – Select from among Drama and Theater, Music, or Art	Elective – Select from among Drama and Theater, Music, or Art
Practical Arts (1)	Freshman Leadership ®		Elective – Select from among Business, Computer, or Engineering / Architectural Drawing courses	Elective – Select from among Business, Computer, or Engineering / Architectural Drawing courses Pers. Fin. ® for class of 2014
Social Service Program (100 hours)	A minimum of 20 hours required	A minimum of 20 hours required	A minimum of 60 hours required SSP released time in May	

Electives – Eight (8) are needed to complete the 32 credit graduation requirement.