

# Saint Viator High School

## 2007-2008 Curriculum Guide

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## **The Viatorian Tradition**

The Viatorian Catholic tradition of commitment to quality in educational programs, an environment of individual concern and personal care, and strong relationships among the students and faculty are hallmarks of Saint Viator High School.

Our curriculum reflects this tradition. We want our students to live significant lives. This process is accomplished within the context of a searching and learning community where all are challenged, supported and affirmed. It is within the context of a classic, liberal arts approach that we teach.

At Saint Viator we believe that an essential component of the Gospel, the teachings of the Catholic Church and the Viatorian tradition, is the call of Christians to serve those in need, with special concern for the poor. For this reason we provide our students the opportunity to live their faith through the experience of service to others.

## **The Vision of the Saint Viator High School Curriculum**

Our college preparatory curriculum, based in Catholic values, empowers students to become life-long learners making sound choices in a changing world.

## **The Goals of the Saint Viator High School Curriculum**

Recognizing that we live in an ever-changing society, Saint Viator High School students, as they acquire a foundation in each academic discipline, will:

- Respond to the challenge of the Gospel through commitment to service.
- Know the foundations of the Catholic faith.
- Develop spiritual, emotional, and physical wellness.
- Recognize the dignity of each person and appreciate the diversity among people.
- Be aware of global events and respond with concern.
- Make effective life choices.
- Communicate effectively.
- Access and evaluate information creatively.
- Be aware of technological developments and their uses.

## **ADMISSIONS**

Saint Viator High School does not discriminate on the basis of sex, race, color, creed or national/ethnic origin in the administration of our educational policies, admission policies, athletic or other school-sponsored programs.

## **GRADUATION REQUIREMENTS**

### **Christian Service Requirement**

Class of 2008 - 20 hours completed during Junior religion (Catholic Church)

Class of 2009 - 75 hours completed (minimum 25 hours each year)

Class of 2010 and 2011 - 100 hours completed (minimum 25 hours each year)

### **Academic Credit Requirement**

22 credits is the minimum requirement for graduation. The 22 hours must include the following:

- 4 English
- 3 Religion (3.5 for Class of 2011)
- 3 Social Studies (a full credit in U.S. History and World History must be part of the 3 credits)
- 3 Science (1 Life Science, 1 Physical Science, 1 elective)
- 3 Mathematics
- 2 Physical Education/Health
- 0.5 Fine Arts
- 0.5 Computer Technology
- 2 Modern World Language (2 credits in Fine Arts may be substituted when approved by the Principal.)

Students are required to pass the Federal and State Constitution tests. Beginning with the Class of 2010, students will be expected to independently complete a Study Guide for the Constitutions prior to taking the tests. Constitution tests will be administered once a quarter on designated dates.

### **State of Illinois Admission Requirements for Public Universities**

Freshman applicants to Illinois public universities are required to have completed the following credits for admission:

- 4 credits of English
- 3 credits of Social Studies
- 3 credits Mathematics (Algebra I, Geometry and Algebra II)
- 3 credits of Science (laboratory science)
- 2 credits of the same Modern World Language (in some instances Fine Arts credits may be substituted).

## **REGISTRATION**

All students must register for at least six (6) courses each semester. Seniors, however, may take five (5) courses second semester. Seniors are encouraged to take six (6) courses both semesters. Exceptions must be approved by the Principal.

Freshmen: After successful completion of the Entrance Exam, the student and parents meet with a school representative who will discuss a schedule based on the student's Entrance Exam scores, the recommendations of department chairs and the recommendations of junior high school teachers. After reaching an understanding and agreement, the schedule is finalized. Sophomores, juniors and seniors register for courses after discussion with counselors and with their parents' approval.

Transfer students are accepted on an individual basis after a review by the Admissions Committee.

Saint Viator High School reserves the right to cancel or modify the courses listed in this curriculum guide should circumstances require adjustment.

## **TUITION**

Each student must pay a registration fee at the time of registration in order to establish his/her enrollment and to provide a firm basis for curriculum planning and teacher hiring. This registration fee is **non refundable**.

**Students who enroll in more than 6 credits, pay additional tuition fee per half credit taken over the 6 credits. (If after June 30, 2007, a student drops back to 6 credits, the adjusted tuition will not be reduced.)**

## **SCHEDULE CHANGES**

A schedule change will be considered only in the following cases: if the student has failed the last semester of the course in question or has failed to meet the prerequisite for the next level, if a senior needs a course for college or graduation, or if there is an administrative change.

Requests for schedule changes will not be honored for the following reasons: teacher preferences or conflicts, convenience of meeting time, course conflicts with a student's job, course is not what the student expected it to be, or personal opinion as to the difficulty of the course.

## **COURSE ADDS AND DROPS**

In order to add or drop a course, a student must first confer with their counselor and then get written approval from their parents during the first two weeks of the new semester. A processing

fee will be charged for any changes made. No changes initiated by the student will be made after the first 2 weeks of the semester.

A parent requesting permission for his/her child to drop a class after the first two weeks (ten school days) must present a written request to the counselor who will review the request with the principal. A change made during weeks 3 and 4 of a semester may result in a WP or WF on the transcript. An “F” will be issued for drops beginning with the 5th week of a semester. These steps are meant to provide sound guidance and direction in the student’s academic program and to protect against uninformed and arbitrary decisions.

### **POLICY FOR FAILURES**

A student who fails a required academic class during the school year is expected to retake that course during the summer. All summer school courses for credit must be taken at Saint Viator High School unless otherwise approved by the student’s counselor.

### **HONORS COURSES**

Honors courses are for students with a high aptitude in the subject who are willing to meet the challenge demanded by higher-level thinking skills. These courses move at a faster pace, and students do more independent work. Students may be required to do course work during the summer.

All courses not designated as “Honors” are college preparatory.

### **ADVANCED PLACEMENT COURSES**

Courses in the Advanced Placement (AP) Program are college-level studies. Students who register for these classes may take the qualifying examination given in May. These examinations are based on college-level studies. The scores are used as a measurement for appropriate placement in college classes, sometimes with the possibility of receiving college credit. College Board charges a fee for the testing service.

### **ST. MARY’S UNIVERSITY CREDIT – PACC (Program for Advanced College Credit)**

St. Mary’s University of Minnesota offers college credit for approved, upper-level Advanced Placement courses which are offered at Saint Viator High School. St. Mary’s charges \$60 per credit hour. St. Mary’s will not allow a weighted grade point average, but students will still receive a weighted G.P.A. for the high school credits. These college credits are transferable to other colleges and universities as per their rules. Most schools will not transfer any grade less than a 77%. A list of universities accepting PACC St. Mary’s transfer credits is available on their website ([www.smumn.edu](http://www.smumn.edu)).

## THE CHRISTIAN SERVICE EXPERIENCE

We are called to live the faith passed on to us through Jesus Christ. Saint Viator High School provides its students the opportunity to concretely live out and celebrate their faith through service.

Christian Service complements the school's curriculum by providing experiences that assist students in recognizing the broader perspective of community and their unique roles in building Christian community. Christian Service challenges students, faculty and staff alike to learn about their community and its needs, and then to respond in loving service in order to transform the world in the name of Jesus.

Within the four years at Saint Viator High School, students are required to complete **Christian Service Hours** as detailed below. These hours are to be completed in the following categories:

- 30 Hours** with the Marginalized
- 15 Hours** within a Parish/Church Community
- 15 Hours** within the Civic Community
- 40 additional hours of the student's choice in any or all of the 3 categories.**
- (Class of 2009 will have 15 hours of the student's choice in any of the 3 categories).**

### Class of 2009

**Sophomore Year**  
25 Hours

**Junior Year**  
25 Hours

**Senior Year**  
25 Hours

### Class of 2010 and 2011

**Freshman Year**  
25 Hours

**Sophomore Year**  
25 Hours

**Junior Year**  
25 Hours

**Senior Year**  
25 Hours

For the 2007-2008 school year, the Christian Service year will run from July 1<sup>st</sup> – June 15<sup>th</sup>.

Along with the completion of the minimum number of Christian Service hours, each year students will participate in a process of Personal Reflection. Each student will write a paper about their service experience and participate in a group reflection.

## RELIGION

**Beginning with the Class of 2011, Fundamentals of the Catholic Faith, the required freshmen religion course, will become a year long course earning one credit.**

**0009 – Fundamentals of the Catholic Faith: One Credit (9)**

This course explores the fundamentals of the Catholic Faith and promotes faith development through academic study, practical application and experiential opportunities. Topics include faith, Creed, Sacraments and morality.

**0008 – A Catholic Exploration of the Bible: One Credit (10)**

This course teaches students to read and understand Hebrew and Christian Scriptures from a Catholic perspective. The study includes theological, historical, cultural and literary influences, and challenges students to apply the message of Scripture to their lives and the contemporary world.

**0006 – Catholic Church: One-half Credit (11)**

This course explores the nature, structure and mission of the Roman Catholic Church. Students are challenged to accept their role as active participants in the mission of the Church. Topics include Models of Church, Vatican Council II, Communion of Saints, Religious Life and Catholic Social Teaching.

**0034 – Christian Ethics and Catholic Morality: One Credit (12)**

This course challenges and assists students as they work to develop an informed conscience based on Catholic moral principles. The emphasis is on applying these principles as the students live in the secular world. Topics include abortion, assisted suicide, capital punishment, marriage, love, sexuality and intolerance.

**0040 – Religions of the World: One-half Credit (11,12)**

This course begins by examining the God question and the search for the divine. Students then study the formation, customs, rituals and beliefs of the major world religions: Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity and Islam. Students explore each religion for its contributions to humanity's religious understanding and spirituality. This course may NOT be substituted for one of the required Religion courses and is considered an elective.

## COMPUTER TECHNOLOGY

**New: Students may take any of the courses offered in the technology department to fulfill the required one-half credit in Computer Technology.**

**0257 – Information Literacy: One-half Credit (9,10,11,12)**

This course is designed for students who need to improve their basic *computer skills* with MS application software. MS-Office is stressed. *Computer skills: Internet research to support document preparation of reports; how to create graphs, charts and spreadsheets; and how to create PowerPoint presentations.*

**0262 – Microsoft Office: One-half Credit (9,10,11,12)**

This course focuses on the major components of MS-Office. The focus will be on learning to use MS-Office Suite. *Computer Skills: Excel spreadsheets, PowerPoint, Access and Outlook E-mail.*

**0267 – Web Design: One-half Credit (9,10,11,12)**

Learn to design and build a professional looking Web page. Course will take a marketing-oriented approach to Web design from development to final launch. Student learning includes implementing, maintaining and updating a Website for business. MS-Front Page is stressed. *Computer skills: creating and maintaining a Website, mastering hyperlinks, tables, frames and Web management.*

**0240 – Accounting: One-half Credit (10,11,12)**

Accounting is the language of business. This course provides the college-bound student a basic introduction to the terminology, principles and understanding of accounting from journal entry through financial statements. Spreadsheets will aid students in developing managerial decision-making skills necessary in accounting and business. Excel spreadsheet is stressed. *Computer skills: detailed use of spreadsheets.*

**0268 – Computer Life Skills: One-half Credit (10,11,12)**

This course combines MS-Office and Internet training to develop students' computer skills and awareness of the necessity for planning personal financial futures. Topics will include online banking and services, credit responsibility, investments, taxes and insurance. Students will be engaged in computer activities to foster their learning. *Computer skills: online safety, Internet use in daily life to manage finances and personal planning.*

## ENGLISH

**0112 – English 9: One Credit (9)**  
English 9 explores literature as students learn to apply the principles of analysis to the genres of fiction, nonfiction, poetry and drama. The course emphasizes basic skills of composition, grammar and usage, vocabulary development and etymology.

**0118 – English 9 (Honors): One Credit (9)**  
English 9 (Honors) is an accelerated course designed for the student with the ability and dedication to read for pleasure, understanding, analysis and evaluation. Students will study the principles of effective writing and editing skills by experiencing a variety of writing opportunities. Students will also develop vocabulary skills through reading and writing activities. Furthermore, this course will focus on improving research and presentation skills. *Prerequisite: Entrance Exam scores and recommendation of the English Department chairperson.*

**0119 – English 10: One Credit (10)**  
English 10 continues the study of literary genres on a more intensive level as students demonstrate the skills of literary analysis. In addition to the students' literary work, the course emphasizes both persuasive and expository composition. An extended unit on speech skills centers on the communication process through the development, presentation and analysis of the various forms of public speaking.

**0126 – American Literature (Honors): One Credit (10)**  
This accelerated survey course in American Literature focuses on major authors and trends. Students analyze short stories and poetry, and read novels such as The Scarlet Letter, The Adventures of Huckleberry Finn, The Great Gatsby and The Catcher in the Rye. Writing assignments include literary analysis, essays, poetry and a second semester research paper. Students deliver speeches during a second semester unit, and continue vocabulary development throughout the year. They also complete a summer reading list. *Prerequisite: A minimum average of 90% in the English 9 (Honors) course, a minimum average of 95% in the English 9 course, and/or departmental approval.*

**0168 – American Literature: One Credit (11)**  
Students taking American Literature make use of literary techniques they have previously learned, develop a deeper understanding of literary themes, and an appreciation of America's contribution to literature since its beginnings in 1607 to the present. Students analyze form and content of reading assignments through class discussions and critical essays. Students also write a research paper and continue the development of vocabulary skills.

**0197 – AP English Language and Composition: One Credit (11)**  
AP English Language and Composition is a college-level course that offers students the opportunity to earn college credit and/or advanced college placement in English. This course focuses on rhetoric and writing, particularly analyzing rhetorical elements of nonfiction texts. Students will also study and compose essays common to Introductory College Composition: narrative, expository, analytical and persuasive essays. *Prerequisite: A minimum average of 90% in American Literature (Honors), a minimum average of 95% in English 10 or American Literature (11), and/or departmental approval.*

**0153 – British Literature I: One-half Credit (11,12)**

British Literature I presents a survey of the literature of major British authors from the Anglo-Saxon period through the Age of Reason. Students read, analyze and discuss representative selections, using critical reading skills to increase understanding of the themes, styles, structures and historical perspectives of these works. Written assignments are based on the readings.

**0154 – British Literature II: One-half Credit (11,12)**

British Literature II focuses on major achievements in British literature from the Romantic Period through the Modern era. Students read representative works of fiction, non-fiction, poetry and drama. Class discussion and essays center on close analysis of each work, its author, its historical and cultural context, and its effect on the reader.

**0160 – World Literature I: One-half Credit (11,12)**

World Literature I explores the literature of Europe (Germany, France, Austria, Russia and Romania), the Far East (Japan, China and India), and the Mediterranean (Greece). Full length texts include Night by Elie Wiesel. Students will have the opportunity to view world cultures through short stories, poetry, novels and drama published by well-known authors from these countries. Selections will be analyzed and responded to through discussion, written papers and presentations. Film analysis will also be included.

**0161 – World Literature II: One-half Credit (11,12)**

World Literature II explores the literature of Africa, South America and the Middle East. Full length texts include Things Fall Apart by Chinua Achebe. Students will have the opportunity to view world cultures through short stories, poetry, novels and drama published by well-known authors from these countries. Selections will be analyzed and responded to through discussion, written papers and presentations. Film analysis will also be included.

**0190 – Communication Skills: One-half Credit (11,12)**

This course provides training in communication skills. Students will be involved in researching, writing, speaking and listening. As part of the course work, the students write and deliver speeches that reflect effective development of ideas, appropriately organized supporting details, and competent delivery techniques. This course strengthens communication skills such as gaining confidence before a group, listening, organizing ideas and persuading an audience.

**0124 – College Writing: One-half Credit (12)**

College Writing gives students the opportunity to develop the writing skills expected of the college-level student. (Types of writing include exposition, comparison/contrast, literary analysis, letters and a research paper.)

**0199 – AP English Literature: One Credit (12)**

AP English Literature is a college-level course that offers students the opportunity to earn college credit and/or advanced college placement in English. Through class work and extensive outside reading, including a summer reading list of several works, students learn to analyze in a mature fashion texts representative of significant authors. *Prerequisite: A minimum average of 90% in AP English Language and Composition, or a minimum average of 95% in a grade 11 Literature course, and/or departmental approval.*

## FINE ARTS

### Performing Arts

**0600 – Symphonic Band: One Credit (9,10,11,12)**

This course is designed to further the musical growth of more advanced musicians. Students will continue to work on fundamentals of music performance while studying music of various time periods, orchestral transcriptions and programmed music. Students in this ensemble should expect to practice daily in order to meet the demands of the music. Participation in performances is required for a passing grade. A tentative schedule of performances is available from the Band Director. *Prerequisite: Audition.*

**0601 – Jazz Band: One-half Credit (9,10,11,12)**

Jazz Band is an auditioned performance group which performs concerts at school and at area festivals. Students learn various jazz styles as they concentrate on the fundamentals of music performance and jazz improvisation. Jazz Band meets every day from 7:25 a.m. to 7:55 a.m. for the entire year. Participation in performances is required for a passing grade. A tentative schedule of performances is available from the Band Director. *Prerequisite: Audition.*

**0602 – Concert Band: One Credit (9,10,11,12)**

Concert Band stresses the fundamentals of music performance while preparing for concerts at school, as well as local and national festivals. Participation in performances is required for a passing grade. A tentative schedule of performances is available from the Band Director. *Prerequisite: Previous band experience.*

**0603 – Music Theory: One-half Credit (9,10,11,12)**

This course offers students an opportunity to learn about how music is made and then apply their knowledge in theory as they create their own compositions using computer technology. Students who are interested in exploring a career in the music industry will gain valuable knowledge from this course. Previous music experience is helpful but not required.

**0608 – Concert Choir: One-half Credit (9,10,11,12)**

The Concert Choir is the premier vocal ensemble which performs various styles of music while participating in concerts at school, local festivals and community events. The fundamentals of vocal tone production, ear training and part-singing will be emphasized. Concert Choir runs from 7:25 a.m. to 7:55 a.m. each day for the entire year. Participation in performances is required for a passing grade. A tentative schedule of performances is available from the Choral Director.

### Theater

**0650 – Theatre I: One-half Credit (9,10,11,12)**

Theatre is primarily an exploratory course covering all of the elements of theatre and acting (imagination, concentration, awareness, pantomime and script work). Self-confidence and teamwork are strengthened through improvisation. The course increases the student's appreciation and enjoyment of theatre from two perspectives, as audience and as performer.

**0651 – Theatre II: One-half Credit (10,11,12)**

This course offers an extended study of the principles introduced in Theatre I. The emphasis is on performance, script analysis, character development, characterization and improvisation leading to original works. *Prerequisite: Theatre I or audition.*

**0653 – Stagecraft: One-half Credit (10,11,12)**

Stagecraft is an introduction to the planning, building and coordinating of all the elements necessary to create the final production of a play or musical. This is a how-to-course in the elements of construction, lighting, properties and sound of a show. Course includes a unit in computer-assisted design (CAD).

**0655 – Film Study and Production: One-half Credit (11,12)**

This course is designed as an introduction to film as an artistic, social and cultural expression. Students will examine the elements of film including cinematography, editing, lighting and sound. They will develop a vocabulary necessary to intelligently analyze films. Discussions and written reviews will help students articulate their opinions of films. Finally, students will produce a short film with classmates to demonstrate the techniques and styles covered in class.

*Prerequisite: Theater II, Stagecraft or permission of instructor.*

**Visual Art**

**0631 – Art Foundations: One-half Credit (9,10,11,12)**

Art Foundations is a course designed for the beginning art student. It is an introductory art class presenting an overview of studio art media. Students explore principles of design through “hands-on” experiences in drawing, painting, design, sculpture and other art forms.

**0616 – Two-Dimensional Art: One-half Credit (9,10,11,12)**

This course exposes the intermediate art student to two-dimensional drawing and painting techniques. Students work in such art mediums as charcoal, pencil, pen and ink, watercolors and pastels, while investigating such subject matter as portrait, landscape, value studies, animation, and the human form. The emphasis is on drawing as a complete art form as well as preliminary work for other art mediums. *Prerequisite: A minimum grade of 85% in Art Foundations or instructor approval.*

**0618 – Advanced Two-Dimensional Art: One-half Credit (10,11,12)**

This course exposes the advanced art student to an intensive investigation of two-dimensional art mediums. Students work in various art materials while exploring concepts including composition, design and visual communication. Emphasis is placed on producing quality art pieces and building a portfolio. Students will develop personal themes to explore which requires work done outside of class. *Prerequisite: A minimum grade of 85% in Two-Dimensional Art or instructor approval.*

**0620 – Photo I: One-half Credit (10,11,12)**

Photo I is an introduction to 35mm black and white photography. Previous knowledge of photography is not necessary. Students develop skills in exposing, processing and printing their own images. The course familiarizes students with camera techniques as well as photo history, artistic interpretation and practical applications of the media. Students will take written tests on the history, chemistry and art of photography as well as develop skills in the processing of film and darkroom work. Students are required to create a portfolio of work that includes all of their photographic prints, negatives and written work. Students must have the use of an adjustable 35mm camera and purchase their own black and white film and photo paper.

**0621 – Photo II: One-half Credit (10,11,12)**

Photo II picks up where Photo I leaves off. Students will refine their photographic skills through advanced darkroom procedures, non-silver photographic processes, and the study of the history and art of photography. Students must have the use of an adjustable 35mm camera and purchase

their own black and white film and photo paper. *Prerequisite: A minimum grade of 85% in Photo I or instructor approval.*

**0622 – Digital Imaging: One-half Credit (10,11,12)**

This is a beginning level digital-imaging class that will explore the uses of Adobe Photoshop CS2 as a creative tool for image editing and design. Class time will be divided between demos, in-class assignments and tutorials, discussions, and portfolio development. While we will explore Photoshop as a tool, this is a design class and content, composition, discussions and reviews will be integral. We will cover techniques applicable for creating and publishing images as well as issues of ethics and responsibilities in digital imaging.

**0630 – Three-Dimensional Art: One-half Credit (9,10,11,12)**

This intermediate art course explores sculptural art forms. The student will be exposed to the elements and principles of art as they relate to three-dimensional art. Skills will be developed in the areas of additive, subtractive, environmental and relief sculpture using a variety of mediums, including wire, found object, paper, wood, plaster and clay. *Prerequisite: A minimum grade of 85% in Art Foundations or instructor approval.*

**0636 – Oil Painting: One-half Credit (10,11,12)**

Oil Painting is an advanced class that builds upon the fundamentals and expressive qualities of the media. Students apply principles of composition and elements of design to their work. They experience a variety of painting techniques as well as styles and methods of significant artists and art periods. Applications of color theory are emphasized. *Prerequisite: Art Foundations, Two-Dimensional Art, an additional one-half credit in the visual arts (which may be taken concurrently) and instructor approval.*

**0637 – Ceramics: One-half Credit (9,10,11,12)**

Ceramics is a studio class that explores the functional and decorative properties of clay. With presentations on the principles and fundamentals of the craft, students experience the hand building techniques of coil, slab and drape construction as well as glazing, underglazing and staining. Students examine decorative applications of the craft and the working of the pottery wheel.

**0638 – Advanced Oil Painting: One-half Credit (11,12)**

Advanced Oil Painting provides the experienced art student with a course structure that encourages independent study and opportunities to develop advanced art skills in the medium of oil painting. Students choose areas of study each quarter and work one-on-one with the instructor to achieve their goals. The course emphasizes development of techniques as well as aesthetic judgment and appreciation. *Prerequisite: Oil Painting and instructor approval.*

## MATHEMATICS

**0505 – Algebra I, Part I: One Credit (9)**

Algebra I, Part I is the first part of a comprehensive program in algebra designed for a two year period. Instruction provides a review of arithmetic skills, operations with real numbers, relations and functions, and methods of solving and graphing equations and inequalities. Content is equivalent to the first semester of Algebra I. *Prerequisite: Entrance Exam scores and Math Department recommendation.*

**0506 – Algebra I, Part II: One Credit (9,10)**

Algebra I, Part II is the second part of the two year Algebra I sequence. The student continues to refine computational skills and reviews properties of the real number system and methods of solving equations and inequalities. Other topics include operations with polynomials, factoring, algebraic functions, solving fractional and quadratic equations, simplification techniques and graphing. Content is equivalent to the second semester of Algebra I. Completion of Algebra I, Part I and Part II is equivalent to Algebra I (0510). *Prerequisite: Algebra Part I.*

**0510 – Algebra I: One Credit (9)**

In Algebra I, students study the relations and properties of real numbers. A substantial portion of the course focuses on an understanding of simplification techniques, methods of solving equations, inequalities and graphing. *Prerequisite: Entrance Exam scores and Math Department recommendation.*

**0511 – Algebra I (Honors): One Credit (9)**

Algebra I (Honors) covers new and traditional algebra concepts and skills through multi-concept problem-solving. Developing critical thinking skills and the ability to communicate mathematics is stressed. It is designed for the student who has a high aptitude in mathematics and who is highly motivated. *Prerequisite: Entrance Exam score, the Math Department Algebra Placement Test, and Math Department recommendation. (All students are placed in this class on a probationary basis for the first semester and will be evaluated at regular intervals.)*

**0512 – Algebra I/Geometry (Honors): One Credit (9)**

Students are selected for this course through the Algebra Placement Test administered in May. Those enrolled complete both Algebra I and Geometry. Students complete six extensive assignments in algebra during the summer before their freshman year. The algebra portion completes the study of algebra that began in junior high school. The geometry portion of the course covers the traditional topics offered in the sophomore year. *Prerequisite: Entrance Exam score, Math Department Placement Test and Math Department recommendation. (All students are placed in this class on a probationary basis for the first semester and will be evaluated at regular intervals.)*

**0520 – Geometry 0520: One Credit (10,11,12)**

This course includes proofs and the applications of algebra to geometry. Topics covered include lines and their subsets, angles, triangles, congruence, similarity, inequalities, parallel and perpendicular lines, polygons and quadrilaterals, area, volume, circles and right triangle trigonometry. *Prerequisite: Algebra I or Algebra I, Part II and Math Department recommendation.*

**0521 – Geometry: One Credit (10,11)**

Geometry provides the vocabulary and skills needed to understand and organize geometrical concepts. It involves students in a deductive system of thought that involves points, lines, angles, polygons and polyhedrons. This course includes proofs and the applications of algebra to geometry. *Prerequisite: Completion of Algebra I or both Algebra I, Parts I and II and the Math Department recommendation.*

**0524 – Geometry (Honors): One Credit (9,10)**

Geometry (Honors) is similar to Geometry (0521) but this course stresses proofs and the application of algebra to geometry. Additional topics come from three-dimensional geometry and problem solving strategies. *Prerequisite: Entrance Exams score, Math Department Placement Test and Math Department Recommendation. (All students are placed in this class on a probationary basis for the first semester and will be evaluated at regular intervals.)*

**0532 – Algebra II/Trigonometry: One Credit (10,11,12)**

Algebra II/Trigonometry reinforces and extends the skills developed in Algebra I. Concepts developed include linear functions, rational functions, quadratic functions, complex numbers, sequences and series, right triangle trigonometry and circular functions. *Prerequisite: Completion of Algebra I and Geometry, Geometry (Honors), or Algebra I/Geometry (Honors) and Math Department recommendation.*

**0533 – Algebra II/Trigonometry (Honors): One Credit (10,11)**

Algebra II/Trigonometry (Honors) reinforces and extends the skills developed in Algebra I. Concepts developed include linear functions, rational functions, quadratic functions, the conic sections, complex numbers, matrices, right triangle trigonometry and circular functions. The topics covered are similar to those covered in Algebra II/Trigonometry but are represented in more depth. Additional topics are introduced as time permits. *Prerequisite: Completion of Algebra I/Geometry (Honors) or Geometry (Honors), and Math Department recommendation. (All students are placed in this class on a probationary basis for the first semester and will be evaluated at regular intervals.)*

**0531 – Algebra II: One Credit (11,12)**

Algebra II builds upon the foundation developed in Algebra I. The primary understanding of essential concepts is reinforced. Stress is placed on linear functions, quadratic functions, polynomial functions, rational functions and matrices. Trigonometry is not covered in this course. *Prerequisite: Algebra I (or Algebra, Parts I and II), Geometry (0520 or 0521) and Math Department recommendation.*

**0541 – Pre-Calculus: One Credit (11,12)**

Pre-Calculus is an immediate preparation for Calculus. Pre-Calculus stresses a deeper appreciation of the function concept and includes polynomial, rational, exponential, logarithmic and trigonometric representations. The course connects numerical, algebraic and graphical representations. Students must be able to synthesize information from all previous math courses. *Prerequisite: Algebra II/Trigonometry and Math Department recommendation.*

**0542 – Pre-Calculus (Honors): One Credit (11,12)**

Pre-Calculus (Honors) is an immediate preparation for Calculus. A deeper appreciation of the function concept is stressed and includes polynomial, rational, exponential, logarithmic, polar and parametric, and trigonometric representations. The topics are similar to those studied in the Pre-Calculus class but are treated from a more theoretical point of view. In this course, students will begin to learn new material immediately. Students are advised to review material from previous

math courses over the summer. Additional concepts covered include rates of change, definition of derivatives, derivatives of functions and applications of derivatives. This course connects numerical, algebraic and graphical representations. *Prerequisite: Algebra II/Trigonometry (Honors) and Math Department recommendation. (All students are placed in this class on a probationary basis for first semester and will be evaluated at regular intervals.)*

**0543 – Pre-Calculus Topics and Applications: One Credit (12)**

The goal of this course is to provide students with a clear understanding of the ideas of functions as a solid foundation for subsequent courses in mathematics and other disciplines. The focus emphasizes depth of understanding rather than breadth of coverage. Among the topics studied are the polynomial, exponential, logarithmic and trigonometric functions, along with the conic sections. This course is intended to help prepare the student for college math. *Prerequisite: Algebra II/Trigonometry and Math Department recommendation.*

**0540 – Advanced Mathematics and Trigonometry: One Credit (12)**

Students continue their study of mathematics, covering algebra topics not studied in Algebra II. These include conic sections, logarithmic and polynomial functions, sequences and series and applications using quadratic functions. Topics covered in trigonometry include basic right triangle trigonometry, law of sines and cosines, trigonometric functions and their graphs, proving identities, trigonometry equations and inverse trigonometry functions. *Prerequisite: Algebra II and Math Department recommendation.*

**0550 – AP Calculus AB: One Credit (12)**

Advanced Placement Calculus AB is intended for students who have a thorough knowledge of Pre-Calculus topics including analytic geometry and functions in addition to college algebra, geometry and trigonometry. Differentiation and integration together with applications form the content of this class. Upon completion of the course, the student is prepared to take the AB Advanced Placement test in Calculus which provides eligibility for one semester of credit in college calculus. College credit may also be earned through an arrangement with St. Mary's University of Minnesota (M151, Calculus I, 4 credits). *Prerequisite: Pre-Calculus and Math Department recommendation.*

**0551 – AP Calculus BC: One Credit (12)**

Advanced Placement Calculus BC is considerably more extensive than AP Calculus AB. This course covers all of the calculus topics in Calculus AB with additional topics in sequences and series, parametric, polar and vector functions. Upon completion of the course the student is prepared to take the BC Advanced Placement test in Calculus which provides eligibility for two semesters of credit in college calculus. College credit may also be earned through an arrangement with St. Mary's University of Minnesota (M151 & M152, Calculus I & II, 8 credits). *Prerequisite: Pre-Calculus (Honors) and Math Department recommendation.*

**0570 – Introduction to Computer Science using C++: One-half Credit (10,11,12)**

This course is a one semester introductory computer science course using C++ as the programming language. Because the development of computer programs to solve problems is a skill fundamental to the study of computer science, a large part of the course is built around the development of computer programs or parts of programs that correctly solve a given problem. The student will analyze project requirements, design, code, document, test and debug computer programs. In addition, the student will learn structured programming using a variety of C++ commands in proper sequence to efficiently and correctly process input data into valid output information. The student will also learn about the major hardware and software components of a

computer system and their relationship to one another. *Prerequisite: Math Department recommendation. NOTE: Algebra II/Trigonometry and C++ may be taken concurrently.*

### **MATH COURSE SEQUENCING**

*(insert chart here)*

## MODERN WORLD LANGUAGE

**0413 – German III: One Credit (10,11,12)**  
The third year of German deals with more complex grammatical structures. Students apply their knowledge of German syntax and vocabulary to a variety of activities and increase their oral proficiency and understanding of German culture through literature and history. *Prerequisite: Recommendation of instructor.*

**0414 – German IV: One Credit (11,12)**  
Students sharpen their conversational skills through nearly exclusive use of German in class. This course introduces an overview of history and literature to further develop oral and written skills. Diverse materials acquaint students with modern German culture and contemporary global affairs. *Prerequisite: Recommendation of instructor.*

**0415 – AP German: One Credit (11,12)**  
AP German Language is a college-level course that offers students the opportunity to earn college credit and/or advanced college placement in German. This course continues the development of the four language skills with an emphasis on reading and writing while deepening the students' exposure to German history, geography and literature. *Prerequisite: Recommendation of instructor.*

**0421 – Spanish I: One Credit (9,10,11,12)**  
Spanish I develops an enthusiasm for foreign language learning through the acquisition of listening, speaking, reading and writing skills in the context of everyday usage and Spanish culture. Spanish is used extensively in the classroom and a high level of student participation is required in the learning process.

**0422 – Spanish II: One Credit (9,10,11,12)**  
This course continues the development of basic language skills and stresses more complex grammatical structures, basic composition skills, increased vocabulary and a greater proficiency in the language and knowledge of the culture. Spanish is used extensively in the classroom with ample opportunity for student interchange. This course prepares students for Spanish III. *Prerequisite: A minimum grade of 77% in Spanish I and recommendation of instructor.*

**0423 – Spanish II: One Credit (9,10,11,12)**  
This course begins with a comprehensive review of Spanish I. The development of basic language skills will be continued with a strong emphasis on vocabulary acquisition, small group practice and real-life conversational activities. The course is designed to fulfill a two year language requirement. *Prerequisite: Spanish I and department approval.*

**0424 – Spanish III: One Credit (10,11,12)**  
Spanish III targets more complex grammatical structures in the context of increasing speaking and listening proficiency. Student exposure to selected short stories develops reading skills and continues the study of Spanish and Latin American cultures. *Prerequisite: A minimum grade of 80% in Spanish II (0422) and recommendation of instructor.*

**0425 – Spanish IV: One Credit (11,12)**  
This course emphasizes reading, writing and conversational skills. Students read and discuss short works which represent peninsular Spain and Latin America. The course also encourages the further development of the students' oral skills through extensive and varied oral activities. This

course is presented in Spanish. *Prerequisite: A minimum grade of 85% in Spanish III and recommendation of instructor.*

**0427 – AP Spanish Language: One Credit (11,12)**

AP Spanish Language is a college-level course that offers students the opportunity to earn college credit and/or advanced college placement in Spanish. This course continues the development of the four language skills, with an emphasis on reading and listening to authentic sources from literature, print media and internet sources. Students will also practice exercises following the new AP format. Cultural and historical aspects of the Hispanic world will also be an important part of the curriculum. *Prerequisite: Recommendation of instructor.*

**0431 – French I: One Credit (9,10,11,12)**

The first year of French introduces the basic structure of the language and emphasizes reading, writing, comprehension and conversation. The study of French culture is also included.

**0432 – French II: One Credit (9,10,11,12)**

French II continues the development of basic language skills with a broadening perspective. French II stresses more complex structures, increased vocabulary and greater proficiency in the language, French culture and geography. *Prerequisite: A minimum grade of 77% in French I and recommendation of instructor.*

**0433 – French III: One Credit (10,11,12)**

The third year of French deals with more complex grammatical structures and more specific vocabulary for the development of conversational skills. Students read selected short stories and there is a strong emphasis on French history and culture. *Prerequisite: A minimum grade of 80% in French II and recommendation of instructor.*

**0434 – French IV: One Credit (11,12)**

This course further develops grammatical concepts while developing writing, reading and speaking skills. Students experience more than 2,000 years of French civilization, history, culture, literature and art. *Prerequisite: A minimum grade of 85% in French III and recommendation of instructor.*

**0435 – AP French Language: One Credit (11,12)**

AP French Language is a college-level course that offers students the opportunity to earn college credit and/or advanced college placement in French. This course continues the development of the four language skills with an emphasis on reading and writing while deepening the students' exposure to French history, geography and literature. *Prerequisite: Recommendation of instructor.*

**0451 – Italian I: One Credit (9,10,11,12)**

Italian I is an introduction to the basic structure of the language. Comprehension, conversation and writing are stressed. Italian customs and culture are also introduced through lively discussions and presentations.

**0452 – Italian II: One Credit (9,10,11,12)**

This course continues the development of basic language skills and stresses more complex grammatical structures, basic composition skills, increased vocabulary and greater proficiency in the language and knowledge of Italian culture. Italian is used extensively in the classroom with ample opportunity for student interchange. This course will prepare the student for Italian III. *Prerequisite: A minimum grade of 77% in Italian I and recommendation of instructor.*

**0453 – Italian III: One Credit (10,11,12)**  
Italian III targets more complex grammatical structures in the context of increasing speaking and listening proficiency. Student exposure to selected short stories develops reading skills and continues the study of Italian culture. *Prerequisite: A minimum grade of 80% in Italian II and recommendation of instructor.*

**0454 – Italian IV: One Credit (11,12)**  
This course emphasizes reading, writing and conversational skills. Students read and discuss short works which represent Italy. The course also encourages the further development of the students' oral skills through extensive and varied oral activities. This course is presented in Italian. *Prerequisite: A minimum grade of 85% in Italian III and recommendation of instructor.*

**0455 – AP Italian Language: One Credit (11,12)**  
AP Italian Language is a college-level course that offers students the opportunity to earn college credit and/or advanced college placement in Italian. This course will continue to develop the four language skills with an emphasis on writing and speaking while deepening the student's exposure to Italian culture and literature. Students will expand vocabulary and deepen knowledge of intricate grammatical structures. *Prerequisite: Recommendation of instructor.*

## PHYSICAL EDUCATION

**0811 – PE I: One-half Credit (9)**

PE I is a course designed to teach the importance of exercise and fitness, what one's own fitness needs are, and how to attain and maintain fitness throughout one's life. Students will be challenged to adopt a lifestyle which promotes one's own health and fitness. This course will incorporate wellness training in conjunction with individual, team sports, swimming and weight training.

**0882 – Health: One-half Credit (10)**

This classroom course will cover drug and alcohol abuse, infectious diseases (including AIDS and sexually transmitted diseases), the effects of smoking, nutrition and weight control, emotional development as well as a discussion of other current health issues.

**0830 – PE III Leaders Prep: One-half Credit (11)**

This course is designed to develop leadership skills in selected junior students. The semester will utilize the classroom, gym and fitness center. Students will learn advanced skills and teaching methods in various sports/activities taught in the current curriculum. Activities will include officiating, development of fitness profiles, conducting fitness tests, lesson development and tournament construction. This course will prepare these individuals to participate in the Physical Education Leaders Program their senior year. Upon successful completion of Leaders Prep, as seniors they will act as teacher-assistants implementing the required curriculum for that class. *Prerequisite: Teacher recommendation/Leaders Application. Students taking this course as a junior are required to enroll in Leaders PE senior year.*

**0844 – PE III/IV Lifetime Activities and Fitness: One-half Credit (11,12)**

PE III/IV Lifetime Activities and Fitness is a course designed to teach the importance of concentration, hand-eye coordination, team play and sportsmanship with the values of respect, discipline and effort. Students will be challenged to adopt a lifestyle which promotes ones own health and fitness. Students will engage in a variety of sports that will challenge them in team play, as well as individual play. This course will include instruction in archery, badminton, basketball, flag football, flicker ball, floor hockey, pickle ball, soccer, softball and volleyball. Students will also have the opportunity to learn the value of aerobics and fitness through our wellness curriculum.

**0831 – Leaders PE: One-half Credit (12)**

This course includes application of effective leadership qualities and techniques as learned in Preparation for Leaders PE. Students will assist Physical Education teachers in tasks such as: leading warm ups, officiating activities, field/gym set up and take down, distribution and collection of equipment, organizing tournaments, skill instruction and mechanical analysis of students' skills. Leaders are expected to act as role models for the students in the class. *Prerequisite: Department approval and a minimum average of 85% in PE III Leaders Prep.*

**0815 – Dance I: One-half Credit (10,11,12)**

This course is designed for the student who has little or no dance experience. The course will introduce techniques in ballet, modern and jazz. The student will also be exposed to basic choreography techniques in an individual and group format. These assignments, in addition to quizzes and performance exercises, will be included in the grade.

**0816 – Dance II: One-half Credit (10,11,12)**

This course is for the more advanced dancer. The Dance II student would have mastered basic technique in ballet, modern and jazz. This course will focus on choreography and performance while concentrating on perfecting technical dance skills. These assignments, in addition to quizzes and performance exercises, will be included in the format. Participation in performance is essential for a passing grade. This elective course does not replace the required PE classes. *Prerequisite: Completion of Dance I and/or instructor recommendation.*

Note: A student may take Dance I or Dance II only to replace the required PE course once in junior or senior year.

**0888 – Driver Education: First Semester – No Credit**

**0889 – Driver Education: Second Semester – No Credit**

Driver Education is taught through District 214 which determines the space availability. Students must arrive at school at 7:30 a.m. and return to Saint Viator by homeroom. *Prerequisite: Must have passed a total of eight courses during the previous two semesters. Summer school courses and physical education are included in the total. Must be 16 by the last day of the District 214 semester immediately preceding enrollment.*

## SCANLAN CENTER

### **0100 – Learning Strategies I: One Credit (9)**

This course is designed for incoming freshman students with diagnosed learning differences. The student must meet a specific set of criteria and have current educational diagnostic testing on file. Course content includes a reinforcement of study skills, the development of strategies in organization, homework completion, reading, writing, memorizing and test taking, and the application of these strategies to content area classes. A portion of each class period is set aside for an assisted study. *Prerequisite: Placement is based on placement test results, current educational diagnostic testing and the recommendation of the Scanlan Center Placement Committee.*

### **0101 – Learning Strategies II: One Credit (10)**

This course is designed for sophomore students with diagnosed learning differences. The student must meet a specific set of criteria and have current educational diagnostic testing on file. Course content includes a reinforcement of study skills, individualized instruction in understanding one's learning strengths and challenges, and the development of skills in self-advocacy, self-monitoring, higher level thinking, problem solving and decision making. Students will also be introduced to skills needed for the successful transition into college. A portion of each class period is set aside for an assisted study. *Prerequisite: Current educational diagnostic testing and recommendation of the Scanlan Center Placement Committee.*

### **0103 – Learning Strategies III: One Credit (11)**

This course is intended for junior students with diagnosed learning differences. The student must meet a specific set of criteria and have current educational diagnostic testing on file. This course serves as a resource period for the student who would benefit from additional support with academic class work. Previously learned study skills and learning strategies are reinforced during instruction. *Prerequisite: Current educational diagnostic testing and recommendation of the Scanlan Center Placement Committee.*

### **0301 – Study Skills: One-half Credit (9)**

This course offers the student an opportunity to develop the skills necessary for maximizing school success. Students will increase their understanding of the learning process and discuss topics that include the following: multiple intelligences, learning styles, learning attitudes, goal setting, time management, active reading, listening comprehension, note taking, memorization and test taking strategies, and the writing process. During the second quarter, a portion of each class period is set aside for an assisted study where skills can be practiced and reinforced. *Prerequisite: Recommendation of the Placement Committee.*

## SCIENCE

**0711 – Biology Lab 0711: One Credit (9,10)**

This is an introductory biology course designed for students who need work with reading and math skills or who have had difficulty with science courses in the past. This course presents a hands-on approach to the study of life. It covers standard biology topics and lab work at a less accelerated and detailed pace while emphasizing study and organizational skills. The course gives students a positive experience in science and emphasizes applying biology to everyday life and problems. *Prerequisite: Science Department and/or science teacher recommendation and Entrance Exam scores for freshmen.*

**0712 – Biology Lab: One Credit (9,10)**

Biology Lab is a general introductory course covering the basic principles of modern biological science. Because of an investigative approach, there is a heavy emphasis on laboratory work. Topics include cell theory, vital life processes, genetics, taxonomy, anatomy, zoology and human physiology. Students acquire laboratory skills such as microscope work, slide preparation and dissection. Students are expected to take accurate notes, be responsible for accurate laboratory work and complete daily homework assignments. *Prerequisite: Science Department and/or current science teacher recommendation and Entrance Exam scores for freshmen.*

**0714 – Biology Lab (Honors): One Credit (9)**

Biology Lab (Honors) is for the accelerated student. The course covers the same basic principles of modern biological science as the biology course but in more depth and at an accelerated pace. It incorporates more laboratory work and independent learning, including independent reading and a research project. This course is designed for the student interested in science who may wish to continue with other honors and AP science coursework in the following years. *Prerequisite: Entrance Exam scores and science teacher or Science Department recommendation.*

**0704 – Integrated Science Lab: One Credit (10)**

Integrated Science Lab is a course that provides a background in the fundamentals of chemistry, physics, earth science and astronomy necessary for further study in science. Students use the scientific method and instruments of measurements, and conduct laboratory experiments. *Prerequisite: A biology course and recommendation of science teacher.*

**0707 – Pre-Chemistry/Pre-Physics Lab: One Credit (10)**

Pre-Chemistry/Pre-Physics Lab is a science course covering a semester of physics and a semester of chemistry, with a focus on scientific reasoning. This class will prepare students for further study in physics and chemistry. *Prerequisite: Biology (0712), successful completion of Algebra I, Part I and science teacher recommendation.*

**0722 – Chemistry Lab: One Credit (10,11)**

This is an introductory course placing emphasis on discovering and understanding chemical principles from experimental observations and problem solving. Students should be proficient in handling mathematical concepts because the course emphasizes theory and applications, which involve problem solving. Twice a week, the class meets for an additional half period. *Prerequisite: Successful completion of Algebra I, registration in Algebra II or Geometry and recommendation by science teacher.*

**0723 – Chemistry Lab (Honors): One Credit (10,11)**

This is an accelerated introductory course in chemistry for the advanced student who desires a career or college study in science-related fields. Students must be able to work independently, have good lab skills and handle mathematics concepts without difficulty. A higher level of problem solving skills is essential because of the emphasis on theory and applications. Twice a week the class meets for an additional half period. *Prerequisites: A minimum average of 85% in Algebra I/Geometry (Honors) or Geometry (Honors) and Biology Lab (Honors) and science teacher recommendation.*

**0720 – Chemistry Lab: One Credit (11,12)**

This course is for students who may not plan on majoring in science but would like some chemistry background for college. Fundamentals of chemistry will be taught both in lecture and laboratory formats so that the student will develop a solid foundation of chemistry knowledge for future use. This course is less mathematically rigorous than Chemistry 0722 or 0723 in its problem-solving approach. *Prerequisite: Successful completion of Algebra I, Part I and Part II, a Biology course, and recommendation of current science teacher.*

**0730 – Environmental Science Lab I: One-half Credit (11,12)**

This course covers environmental issues so the students can become environmentally educated citizens. Students may take both semesters or choose either semester. Topics covered in semester one are ecology, nutrient cycles, overpopulation, the park system and current environmental news topics. Labs are included in this course. In addition, two field studies will occur each semester emphasizing a hands-on approach with various environmental topics. *Prerequisite: Biology and one other science course plus recommendation of current science teacher.*

**0731 – Environmental Science Lab II: One-half Credit (11,12)**

This course covers environmental issues so the student can become an environmentally educated citizen. Students may take both semesters or choose either semester. Topics covered in semester two include energy and its related issues (sulfur dioxide emissions, global warming, nuclear energy, solar energy, radiation, etc.) pesticides, water and air as a resource, water and air pollution, acid rain, ozone depletion, radon, solid waste disposal, noise pollution, soil, land planning, recycling and environmental law. Labs are included in this course. *Prerequisite: Biology and one other science course plus recommendation of current science teacher.*

**0745 – Physics Lab: One Credit (11,12)**

This course is for the student who wants a good science background for college. Emphasis is on experimentation, analysis of data and problem-solving skills. Course content includes mechanics, sound, light, electricity and magnetism. Students gain skill in the interpretation of data tables and graphs, as well as use of computerized physics equipment. *Prerequisite: Completed Algebra I and Geometry and registration in Algebra II/Trig with science teacher recommendation.*

**0746 – Physics Lab (Honors): One Credit (11,12)**

Physics Lab (Honors) is for the advanced student who would like to continue in the honors science program. This course should be taken during the junior year if the student plans to take Advanced Placement science classes. This course covers content in depth at an accelerated pace. Computerized experimentation, data analysis and problem solving are emphasized throughout the course. *Prerequisite: Must be enrolled in Pre-Calculus or Pre-Calculus Honors, and Chemistry Lab (Honors) with science teacher recommendation.*

**0750 – Anatomy/Physiology Lab: One Credit (11,12)**

This course gives students an understanding of the structure and functions of the human body. Topics covered include the study of tissues, the nervous, circulatory, muscular, skeletal, respiratory, digestive, excretory, endocrine and reproductive systems, and the body as a whole. Students participate in detailed labs and dissections, do outside reading and reports, and observe, analyze and interpret information. Outside reading and memorization of anatomy terms are required. A field trip enhances topics of study. *Prerequisite: Biology and a physical science. Chemistry is recommended but not required. Science teacher recommendation.*

**0725 – Astronomy: One-half Credit (12)**

This class is commonly known as the star class. Night sky and constellations are studied. Students gain knowledge of the moon, our sun and the life cycle of all stars. Night viewings and field trips enhance this class. Labs are included in this course. Math content is minimal. *Prerequisite: Recommendation of current science teacher.*

**0726 – Chemistry II Lab: One-half Credit (12)**

This course is intended for the senior who has taken a previous course in chemistry. The class will be half organic chemistry and half qualitative analysis. In organic chemistry, nomenclature of compounds and some basic reactions will be discussed and some basic labs will be performed. The qualitative analysis portion will be predominantly labs with the purpose of identifying ions in solution. Good laboratory skills are necessary. Math content will be minimal. *Prerequisite: Successful completion of any Chemistry class and recommendation of current science teacher.*

**0727 – AP Chemistry Lab: One Credit (12)**

The course is approximately equivalent to a first year college chemistry course. Topics that were covered in the Chemistry Lab (Honors) course may be covered in greater depth. These would include structure, bonding, states of matter, reactions (type, stoichiometry, kinetics and equilibrium) and thermodynamics. Units in electrochemistry, nuclear chemistry, and properties of metals and nonmetals, and descriptive examination will also be included. The laboratory experiences provided by this course support the lecture topics. Students will demonstrate their understanding of the chemistry topics through a variety of laboratory activities. *Prerequisite: Biology Lab (Honors), Chemistry Lab (Honors), Physics Lab (Honors) and science teacher recommendation.*

**0716 – AP Biology Lab: One Credit (12)**

This is an introductory college course for accelerated students with a special interest in biology. The course satisfies and exceeds the requirements of the national AP Biology College Board. The student acquires an in-depth understanding of many biological processes and principles. Emphasis is on molecular and cell physiology, genetics, organisms and populations, evolution and ecology. Comprehensive lab experience is included in this course. Evaluation is based on student review of current journal articles, tests and laboratory work. The course meets for 1½ periods daily. Field trips enhance study. College credit may also be earned through an arrangement with St. Mary's University of Minnesota (B110, Botany & Zoology, 4 credits) or by taking the Advanced Placement examination. *Prerequisite: Biology Lab (Honors), Chemistry Lab (Honors), enrollment or completion of Physics or Physics Lab (Honors) and science teacher recommendation. May be taken concurrently in junior year with Physics.*

**0747 – AP Physics C Lab: One Credit (12)**

AP Physics C Lab is an introductory college level course for accelerated students with a special interest in physics. Emphasis is on computerized experimentation, analysis of data, and problem-solving skills. Course content will be determined by the topics emphasized in the national AP

Physics examination. The course will cover mechanics, electricity and magnetism in greater depth and at a more accelerated pace than Physics Lab (Honors). Students must have good math skills and be able to handle mathematical concepts with ease. College credit may also be earned through an arrangement with St. Mary's University of Minnesota (P180/181, Principles of Physics, 4 credits) or by taking the Advanced Placement examination. *Prerequisite: Calculus or Pre-Calculus (Honors) (may be taken concurrently), Biology Lab (Honors), Chemistry Lab (Honors), Physics Lab (Honors), and science teacher recommendation.*

### **SCIENCE COURSE SEQUENCING**

*(insert chart here)*

## SOCIAL STUDIES

**New: Beginning with the Class of 2009, students may choose two of the following courses to fulfill the U.S. History requirement: U.S. History to 1860, U.S. History from 1860 to WWII, U.S. History from WWII to the Present, U.S. History to 1860 (Honors).**

**All students graduating from Saint Viator High School are required to demonstrate an understanding of the U.S. and Illinois State Constitutions. This is achieved by independently completing a study packet and passing tests on each Constitution. These tests will be administered at various times during the school year.**

**0360 – World History: One Credit (9)**

World History is an introductory survey of western and non-western civilizations. Students will trace the development of nations and cultures. They will learn of the political, economic, intellectual and social advances of nations and of the interactions between nations. The course emphasizes the development of organizational skills, note-taking, outlining, map reading and basic research. A strong emphasis will be placed on the development of writing skills.

**0361 – World History (Honors): One Credit (9)**

World History is an introductory survey of western and non-western civilizations. Students will trace the development of nations and cultures. They will learn of the political, economic, intellectual and social advances of nations and of the interactions between nations. Students read extra materials in addition to the text and produce essays on significant themes. The course emphasizes the development of organizational skills, note-taking outlining, map reading and basic research. A strong emphasis will be placed on the development of writing skills.

**0311 – Geography: One-half Credit (10,11,12)**

Geography in many cases has set the stage for inventions, battles, migration or other historical events that are studied. In order to make clear the link between geography and human development, five fundamental geographic themes are presented in this course: location, place, human-environmental interaction, movement and region. Critical skills such as map reading, learning to evaluate charts and statistics, essay writing and research skills are stressed.

**0328 – U.S. History to 1860 (Honors): One-half Credit (10)**

U.S. History to 1860 (Honors) is a one semester college level course which considers the major religious, political, social and economic themes from the founding of Jamestown (1607) to the firing on Ft. Sumter (1860). Emphasis is placed on writing skills and the significant content of this period. A research paper and outside readings will be assigned. Summer reading will also be required. *Note: This course is a pre-requisite for AP U.S. History.*

**0329 – U.S. History to 1860: One-half Credit (10,11,12)**

This is a survey course covering the history of the country from its founding as a nation to the firing on Ft. Sumter in 1860. Emphasis is placed on cause and effect of events in the history of our country rather than the memorization of facts and dates, so that students will understand religious, social, economic and political forces that shaped the development of the United States up to the end of this period.

**0332 – U.S. History 1860 to WWII: One-half Credit (10,11,12)**

This is a survey course covering the history of the country from the firing on Ft. Sumter in 1860 to the U.S. involvement in World War II. Emphasis is placed on cause and effect of events in the history of our country rather than the memorization of facts and dates, so that students will

understand religious, social, economic and political forces that shaped the development of the United States up to the end of this period.

**0333 – U.S. History WWII to the Present: One-half Credit (10,11,12)**

This is a survey course covering the history of the country from the U.S. involvement in World War II to the present day. Emphasis is placed on cause and effect of key events in the history of our country rather than the memorization of facts and dates, so that students will understand religious, social, economic and political forces that shaped the development of the United States up to the present day.

**0399 – AP U.S. History: One Credit (11,12)**

Advanced Placement United States History is a one year college level course which considers the major religious, political, social and economic themes that have contributed to the development of the United States. Emphasis is placed on the improvement of writing skills especially document based questions and free response essays. A major research paper will be required and outside readings will be assigned frequently by the instructor. Great emphasis will be on the detailed content of the course in preparation for the AP U.S. History test which students are encouraged to take in May. College credit may also be earned through an arrangement with St. Mary's University of Minnesota. A summer reading assignment is required along with an assignment due the first day of class. *Prerequisite: U.S. History to 1860 (Honors).*

**0330 – Urban Studies: One-half Credit (11,12)**

Urban Studies offers the student an opportunity to examine the history, geography, politics and culture of the city of Chicago. It begins with the early settlement of Chigagou, moves on to the founding of the city, and follows its evolution through the 20th century. The course goal is for students to understand the geographical, racial, socio-economical, cultural and architectural development of Chicago. Particular emphasis is placed on the Native Americans, the Union Stockyards, the Fire, the Columbian Exposition, the Capone Era, Richard J. Daley, Frank Lloyd Wright, Mies Van der Rohe and Richard M. Daley.

**0341 – Psychology: One-half Credit (11,12)**

The purpose of this course is to provide students with a background and general understanding of the major areas of Psychology. The class will focus on theories of personality, conditioning, perception, consciousness, memory, dreams, motivation, stress, personality disorder and treatment of disorders. Students will actively engage in learning through participation in lectures, discussion of the design of psychological experiment, and group projects. Special emphasis will be placed on personal development through the writing of a personal history and journaling.

**0345 – Sociology: One-half Credit (11,12)**

Sociology follows the development of societies through an awareness of the processes of socialization, an understanding of culture and society, social stratification, deviance and social institutions. Students will be expected to show mastery of material through essay tests, projects, research reports, oral reports and group interaction.

**0348 – Global Economics: One-half Credit (11,12)**

This course provides a general overview of global economics. Topics covered include: reasons for and the effects of global trade, trade policies, tariffs, quotas and voluntary export restraints, trade agreements and institutions such as the World Trade Organization, the International Monetary Fund and the World Bank. Additional topics include determination of exchange rates, role of global economy in influencing national income, unemployment and inflation. Emphasis is

on concepts, ideas and institutions, rather than rigorous analysis. Students will demonstrate their learning through tests, written reports and a major research project.

**0357 – Contemporary World Issues: One-half Credit (11,12)**

This course is a study of current issues that are of world, national or local importance, and have contemporary historical significance. Particular attention is given to events of political, geographic, social and economic significances in respect to the shaping of the world around us. The following topics are a sample of addressed issues: Constitutional rights, domestic social issues, economic development, science & technology, human rights, global environment, defense, United States foreign policy and peace initiatives. These are all issues that affect students directly or indirectly and cannot be ignored as they enter adulthood as members of a global society. In addition to the required textbook, various media sources are used as references. Note-taking, discussion, research and critical thinking will be emphasized.

**0342 – AP Comparative Government and Politics: One Credit (12)**

This course introduces the students to fundamental concepts used by political scientists to study the process and outcomes of politics in a variety of country settings. The course aims to illustrate the rich diversity of political life, to show available institutional alternatives, to explain differences in processes and policy outcomes, and to communicate to students the importance of global political and economic changes. Comparison assists both in identifying problems and in analyzing policy making. Six countries form the core of the AP Comparative Government and Politics course. China, Great Britain, Mexico, Nigeria and Russia are all regularly covered in a college-level introductory comparative politics course. The inclusion of Iran adds a political system from a very important region of the world and one that is subject to distinctive political and cultural dynamics. By using these core countries, the course can move the discussion of concepts from abstract definition to concrete example. Great emphasis will be on the detailed content of the course in preparation for the AP U.S. History test which students are encouraged to take in May. College credit may also be earned through an arrangement with St. Mary's University of Minnesota. A summer reading assignment is required along with an assignment due the first day of class. *Prerequisite: Approval of department chairperson.*

**0398 – AP European History: One Credit (12)**

This year long course places attention upon understandings equivalent to those gained in a college-level introductory course. Emphasis is on the general narrative of European history from 1450. The course also includes examination of the political, intellectual, cultural and economic history of Europe. Course requirements include daily reading, quizzes, tests and at least one major project. Readings will include at least two books in addition to the text. Students completing the course will be encouraged to take the Advanced Placement examination in May for college credit. College credit may also be earned through an arrangement with St. Mary's University of Minnesota. A summer reading assignment is required along with a paper that is due the first day of class. *Prerequisite: Approval of department chairperson.*