

Saint Viator High School

 2010-2011

# CURRICULUM GUIDE

***Viatorian Values***  
***Catholic Identity***  
***Gospel Centered***  
***Personal Integrity***  
***Intellectual Independence***  
***Community Oriented***  
***Strong Character and Confidence***



# Saint Viator High School

## 2010 – 2011 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;

## Profile of Saint Viator High School Graduate

A Saint Viator High School graduate reflects the Viatorian educational values of life-long, collaborative learning within a Catholic community. They have benefited from instruction that responds to a variety of learning styles. Our graduates are critical thinkers who have the ability to recognize and evaluate information and apply appropriate solutions. Embracing a global perspective, they are dynamic creators, communicators and collaborators. They seek to reach their maximum potential intellectually, physically, spiritually and emotionally as they meet challenges of the world.

As a member of a Catholic and global community, the Saint Viator graduate:

- understands Catholic history, traditions and beliefs resulting in the ability to make moral judgments based on an understanding of Catholic principles;
- possesses a developed sense of respect for self and others; responds to the needs of others with caring service;
- cultivates the ability to make responsible life choices;
- seeks to be leaders within their faith community who model the values embodied in the Gospel message;
- accepts and respects other cultures, traditions and values;
- masters the essential concepts and skills of each discipline;
- solves problems collaboratively with an international perspective;
- discerns and evaluates the vast quantities of information available in the 21<sup>st</sup> century via changing modes of technology;
- possesses a sense of pride in their country, religious tradition and family.

## The Viatorian Values of a Saint Viator Graduate

At the heart of our educational program are the Viatorian values that every Saint Viator graduate possesses. Teachers stress the importance of **intellectual independence** while allowing each student to develop their own **personal integrity**. Students build **strong character and confidence** both inside the classroom and through our co-curricular sports and clubs. Every month, the entire school community comes together for an all-school Mass to celebrate our **Catholic identity** and to keep us **centered on the Gospel**. We stress the importance of being **community oriented** within both the school community and the community at large. This allows individuals to be all God calls them to be while finding their place in the world.

## 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**

100 hours completed (minimum 25 hours each year)

### **Academic Credit Requirement**

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

- 4 English
- 3.5 Religion
- 3 Social Studies (1.0 credit World History and .5 credit U.S. History to 1860 are required; and .5 credit of additional elective U.S. History is required)
- 3 Science (1.0 credit Biology is required)
- 3 Mathematics
- 2 Physical Education/Health
- 2 Modern World Language (2 credits in Fine Arts may be substituted when approved by the principal)
- 0.5 Fine Arts
- 0.5 Computer Technology
- 0.5 Elective

### **Federal and State Constitution Tests Requirements – Class of 2011 and Class of 2012**

Students are required by the State of Illinois to pass both the Federal and the State Constitution Tests in order to receive their diploma. Students must independently complete a study guide packet prior to taking the tests or enroll in the one week summer school workshop. This study guide must be submitted prior to the test by the deadline identified on the website. Constitution tests are administered once each quarter and two times during the summer. Review sessions are offered for students prior to each testing date. ***Students must pass both Constitution tests by the first day of the second semester of their senior year.*** Students who do not meet this deadline will be ineligible to participate in prom, senior celebration, sports and co-curricular activities until this requirement is completed. **Students may opt to enroll in a one week summer school workshop where they will complete the packets and take the tests.**



### **Federal and State Constitution Test Requirements – Class of 2013 and Class of 2014**

Students are required by the State of Illinois to pass both the Federal and the State Constitution Tests in order to receive their diploma. **During the summer between freshman and sophomore year, students will be assigned to independently complete the Constitution packet as a summer reading project. Packets are due by the first day of the school year. Students may opt to enroll in a one week summer school workshop where they will complete the packets and take the tests.**

## 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**

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

### Christian Service Hours per Year

<b>Freshman Year</b>	<b>Sophomore Year</b>	<b>Junior Year</b>	<b>Senior Year</b>
25 Hours	25 Hours	25 Hours	25 Hours

The **2010-2011 Christian Service** year will run from July 1 – June 15.

**\* Seniors Only:** The 2010-2011 Christian Service year will run from July 1 to April 15.

## TURNITIN PROPOSALS

*Saint Viator High School has entered into a licensing agreement with Turnitin.com. This is an Internet-based computer system that uses a compilation of the Internet, academic database and student submissions to check papers for original writing.* The goal is to teach students to express themselves effectively and properly through writing and to avoid plagiarism. The Internet provides many new opportunities for education. Most of our students use technology to communicate and to acquire information; however, with advancements in technology comes both accidental and intentional plagiarism. Papers submitted to the service are stored in their database as long as this service (Turnitin) remains in existence. Turnitin has taken steps to insure that student privacy is not violated. Saint Viator will further insure that privacy by allowing students to submit papers under assumed names.

## **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, biology and a chemistry)
- 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 parent(s) 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 parental 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, which is applied to tuition, 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**.

### **SCHEDULE CHANGE POLICY**

Scheduling changes for the 2010-2011 school year should be completed by **May 31, 2010**. In an effort to provide quality education, individual attention and maintain class size, any student who drops a course after **June 30, 2010** will continue to be charged the tuition based on their total credits as of **June 30, 2010**.

A schedule change will be considered during the **first five days** of a new semester only in the following situations: if a student has failed the last semester of the course in question or has failed to meet the prerequisite for the next level; if a student 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.

In order to add or drop a course, a student must first confer with their counselor and then get written approval from their parent(s)/guardian during the first five days of the new semester (August 25, 2010 or January 24, 2011). A processing fee will be charged for any changes made.

A student granted permission to drop a course after week two of the new semester will not be able to join any class in progress but will be placed in an assigned study hall. Students are expected to be enrolled in six classes each semester; therefore, careful consideration should be made before dropping a class. (Remember a student must be passing five classes to remain eligible for participation in co-curricular activities.)

**During Semester One, schedule changes will only be considered through August 25, 2010 and January 24, 2011 for Semester Two. (After August 25, 2010, the only changes that will be considered are those resulting from an academic misplacement or a counselor request. A schedule change made after August 25, 2010 or January 24, 2011 may result in the student receiving a "WP" or "WF" on their transcript. An "F" will be issued for drops beginning with the third week of a semester.)**

### **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 or principal.

### **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 **are required to** take the qualifying examination in May. These examinations are based on college-level studies at an additional fee assessed by the College Board each year. During the 2009-2010 school year, the fee was \$86 per test. The scores are used as a measurement for appropriate placement in college classes with the possibility of receiving college credit.

Any student who enrolls in an AP course but fails to take the AP Exam will forfeit the AP designation on their transcripts and will not receive weighted grade points for the grade earned. Colleges will be notified of the change of designation on the transcript.

**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 approximately \$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. Because universities and colleges will transfer these credits differently, you need to be in touch with the school your student plans to attend to inquire about transfer policies. Most schools will not transfer any grade less than a 78%. A list of universities accepting PACC St. Mary’s transfer credits is available on their Web site ([www.smumn.edu](http://www.smumn.edu)).

Since St. Mary’s University reports only letter grades to other universities, we will use the following grading scale when reporting grades to them.

A	92 – 100
A/B	88 – 91
B	82 – 87
B/C	78 – 81
C	70 – 77

## RELIGION

**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 the 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

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 to develop and improve their current basic computer skills with MS application software. Microsoft Office is stressed. *Computer skills: Internet research strategies to support preparation of reports, Word used in submitting reports and graphs, Excel spreadsheets and PowerPoint presentations.*

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

This course focuses on the major components of Microsoft Office. The focus will be learning to expand student usage of Microsoft Office Suite. *Computer Skills: Excel spreadsheet, 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. This course will take a marketing-oriented approach to Web design from development to launch. Student learning includes implementing, maintaining and updating a Web site for business. Adobe Dreamweaver is stressed. *Computer skills: Creating and maintaining a Web site; master hyperlinks, tables, frame styles 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. Microsoft Excel spreadsheets will aid students in developing managerial decision-making skills necessary in accounting and business. *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.*

**0623 – Introduction to Adobe Photoshop:** *This course fulfills the Graduation Requirement in Computer Technology but only earns .5 credit in Fine Arts.*

**0570 – Introduction to Computer Science using C++:** *This course fulfills the Graduation Requirement in Computer Technology but only earns .5 credit in Math.*

## 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.

**0113 – English 9 Integrated: One Credit (9)**

This course is the integration of two required freshmen courses, English 9 and World History. It earns two credits and covers two periods. In the course, we will examine historical issues and literature that share similar broad ideas about the world we live in. Using both historical study and literary analysis, we will explore how humans act in society, the true nature of human beings, the influence of power and the expression of ideas. *Prerequisite: Department approval.*

**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 department approval.*

**0119 – English 10: One Credit (10)**

English 10 continues the study of literary genres on a more intense 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 department 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 from 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, and/or department approval.*

*AP exam is required.*

**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 examines classic and contemporary works from cultures around the world, including short stories, poetry, novels, drama, essays and non-fiction. Students will analyze and respond to literature through discussions, presentations and essays.

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

World Literature II continues the examination of classic and contemporary works from cultures around the world, including short stories, poetry, novels, drama, essays and non-fiction. Students will analyze and respond to literature through discussions, presentations and essays.

**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 and practice the writing formats expected at the college level. The course stresses clear thinking and clear expression in various types of writing, including narration, description, exposition and persuasion. In addition, College Writing emphasizes revising papers for conciseness, style and correctness.

**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 textually analyze, critically review and comparatively evaluate a myriad of literary genres. *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 department approval. AP exam is required.*

## 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 in the appendix.

*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 Tuesdays and Thursdays from 6:30 p.m. to 8:00 p.m. throughout the entire year. (Occasionally, meeting times/days must be changed/cancelled due to conflicts.) Participation in performances is required for a passing grade. A tentative schedule of performances is available in the appendix. *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 in the appendix. *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.

**0605 – Music Appreciation: One-half Credit (9,10,11,12)**

This course will trace the origins of music beginning with Ancient Times to our present day. Students will explore vocal and instrumental music, their influence on each other, and the progression of notation. Emphasis will be given to early music's basis in the church and where it is today. Students will learn the parts of the Mass set to music and in their original Latin. Students do not need to have previous musical experience, only an appreciation for music.

**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 in the appendix.

## **Theatre**

### **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. The course includes a unit in computer-assisted design (CAD).

### **0655 – Film Study and Production: One-half Credit (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 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.

## **Visual Art**

### **0611 – Art One: One-half Credit (9,10,11,12)**

Art One, previously known as 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 the elements of design through “hands-on” experiences in drawing, painting, design, sculpture and other art forms.

### **0612 – Art Two: One-half Credit (9,10,11,12)**

Art Two picks up where Art One leaves off. The student will be exposed to the principles of design as they relate to two- and three-dimensional art. Students work in such two-dimensional art mediums as charcoal, pencil, pen and ink, watercolors, pastels, and three-dimensional art mediums, including jewelry, wood, stone, and found objects. Subject matter may include the human figure, advanced composition, portraits, design, abstract studies and collage. *Prerequisite: A minimum grade of 85% in Art One or department approval.*

### **0639 – Advanced Studies in Art: One-half Credit (may be repeated) (10,11,12)**

Advanced Studies in Art is for the students who want to develop advanced skills in art. Students will choose individual areas of study and explore the expressive impact of art. Students will develop individual programs of study based on personal interests, as well as research and study in the history and aesthetics of art. This course may be repeated for credit. *Prerequisite: Art One, Art Two and department approval.*

**0623 – Introduction to Adobe Photoshop: One-half Credit (10,11,12)**

Previously known as Digital Imaging, this is a beginning-level class that explores the uses of Adobe Photoshop CS2 as a creative tool for image editing, commercial design and using Photoshop as a painting program. Class time will be divided between demonstrations, in-class assignments and tutorials, discussions, and portfolio development. We will explore Photoshop as a design tool and develop real-world projects that explore aesthetics, content, composition and production guidelines. We will cover techniques applicable for creating and publishing images, as well as issues of ethics and responsibilities in digital imaging. *This course fulfills the Graduation Requirement in Computer Technology but only earns .5 credit in Fine Arts.*

**0624 – Digital Photography: One-half Credit (9,10,11,12)**

Digital Photography is a semester course, which introduces the students to the aesthetics of photography through use of a digital camera. The emphasis of the course will be on understanding and using a digital camera, photographic composition and creative expression. Although techniques of basic photo corrections using digital software are explored, the emphasis of the class is on using the digital camera and its controls while exploring photography as an art form. Themes such as landscape, sports photography, portrait lighting, photo journalism and others will be explored. *Requirement: Students must supply their own digital camera (7 megapixels or higher) and memory card.*

**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 One, Art Two and department 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 pinch pot, coil, slab and drape construction, as well as glazing, underglazing and staining. Students examine decorative applications of the craft while creating both decorative and functional pottery.



**0640 – Ceramics II: One-half Credit (9,10,11,12)**

**Ceramics II is for the student who wants to explore advanced ceramic techniques. Further development of skills used to create works of art from clay will be stressed. This will include the processes of hand building, molds, slip and glaze techniques, silver clay, terra cotta, porcelain, and the firing processes. Projects that involve creative problem solving are used to explore aesthetics and production of artwork beyond the Ceramics (0637) level. Additionally, students reflect upon the outcome of these experiences and explore cultural and historical connections. Prerequisite: Ceramics (0637).**

**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 department approval.*

## MATHEMATICS

*All math placements are subject to review and possible revision at the end of second semester.*

### **0507 – Algebra 0507: One Credit (9)**

This sequence is designed for students who desire a year of algebra while strengthening mathematical skills. The class includes operations with real numbers and methods of solving and graphing linear equations and inequalities. Other topics include operations with polynomials, factoring and algebraic functions. Successful completion of Algebra 0507 prepares students for further work in mathematics in Geometry 0520 and Algebra II. *Prerequisite: Entrance Exam scores and department approval.*

### **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 and methods of solving equations, inequalities and graphing. *Prerequisite: Entrance Exam scores and department approval.*

### **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 department approval. (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 April. Those enrolled complete both Algebra I and Geometry. Students complete six chapters of 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 during sophomore year. *Prerequisite: Entrance Exam score, Math Department Placement Test and department approval. (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 covers lines and their subsets, angles, triangles, congruence, similarity, inequalities, parallel and perpendicular lines, polygons and quadrilaterals, area, volume, circles, and right triangle trigonometry. **Algebraic concepts will be applied to geometric problems.** *Prerequisite: Algebra I or Algebra 0507 and department approval.*

### **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 and department approval.*

### **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 Exam score, Math Department Placement Test and department approval. (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 department approval.*

**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 department approval. (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 0507, Geometry 0520 or Geometry 0521 and department approval.*

**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 department approval.*

**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 department approval. (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 department approval.*

**0535 – Advanced Mathematics: One-half 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. *Prerequisite: Algebra II and department approval.*

**0536 – Trigonometry: One-half Credit (11,12)**

Topics covered in Trigonometry include basic right triangle trigonometry, law of sines and cosines, trigonometric functions and their graphs, proving identities, trigonometric equations, and inverse trigonometric functions. *Prerequisite: Advanced Math and department approval.*

**0545 – Introduction to Statistics: One-half Credit (11,12)**

The focus of this course will be on solving real life problems in statistics. Topics include analysis of data using sample statistics, basic probability theory, probability distributions, and sampling distributions of means and proportions. *Prerequisite: Algebra II and department approval.*

**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 department approval. AP exam is required.*

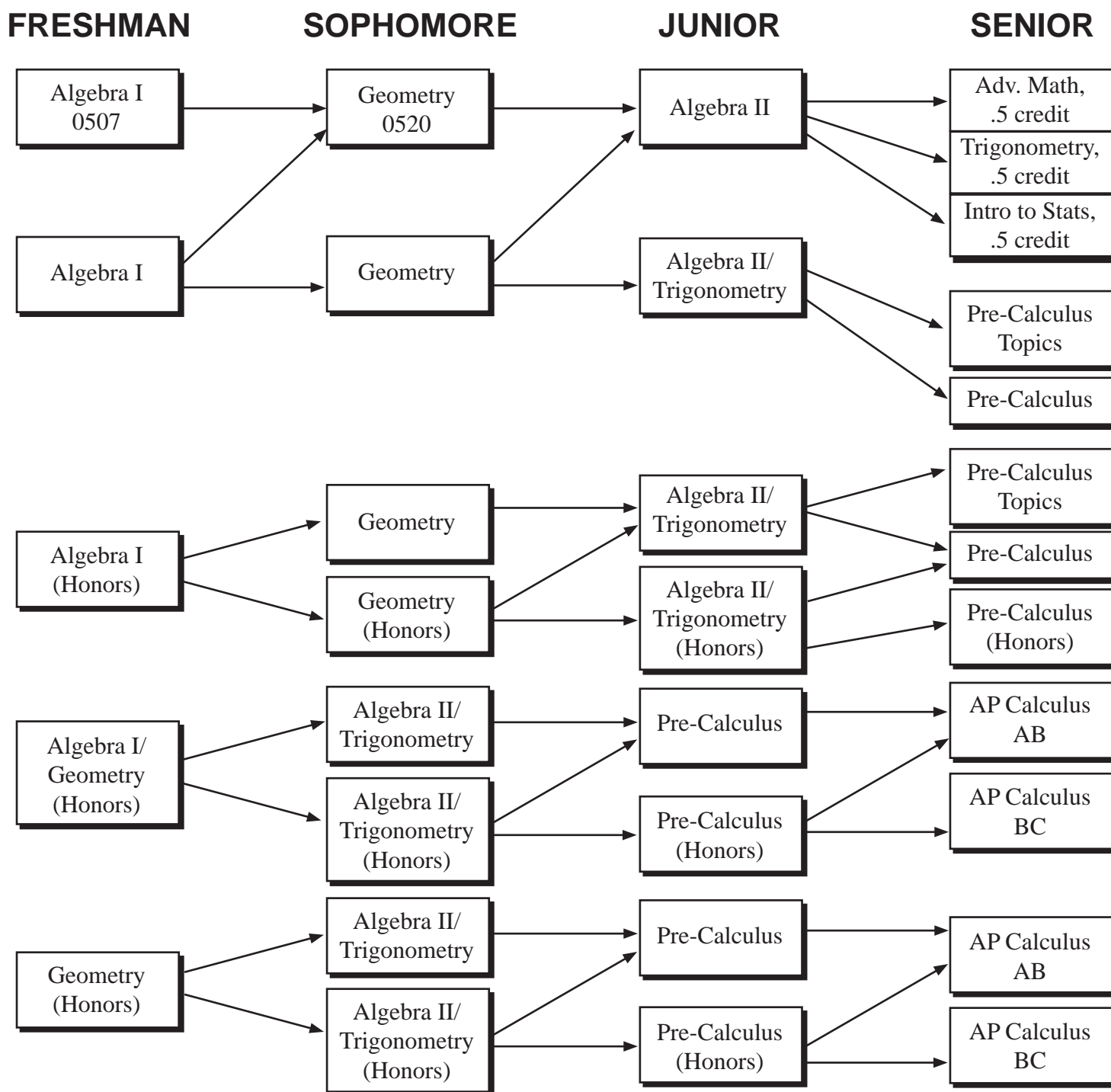
**0551 – AP Calculus BC: One Credit (12)**

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 department approval. AP exam is required.*

**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. The student will then 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: Department approval and Algebra II/Trigonometry which may be taken concurrently. This course fulfills the Graduation Requirement in Computer Technology but only earns .5 credit in Math.*

# Saint Viator Mathematics Curriculum




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## Elective

Introduction to Computer Science Using C++  
.5 credit  
Prerequisite: Alg II/Trig  
(may be taken concurrently)

Introduction to Statistics  
.5 credit  
Prerequisite: Algebra II  
This course may be taken by any student who  
has completed an Algebra II level math class

## MODERN WORLD LANGUAGE

### **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 (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 80% in Spanish I and department approval.*

### **0423 – Spanish II: One Credit (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. Students enrolled in this class will not be eligible to take Spanish III. *Prerequisite: Spanish I and department approval.*

### **1422 – Honors Spanish II for Freshmen: One Credit (9)**

**This is a level two Spanish course for freshmen only who have completed the equivalent of a two-year sequence in junior high school. This course will expand the listening, speaking, reading and writing skills that were introduced in junior high. The use of audio visuals, readings and technology are used to reinforce language skills, as well as an appreciation of the Hispanic culture. *Prerequisite: Two years of junior high school Spanish, recommendation of the junior high school teacher and placement testing.***

### **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 85% in Spanish II (0422) and department approval.*

### **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 department approval.*

### **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 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 Spanish III or Spanish IV instructor. AP exam is required.*

- 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 80% in French I and department approval.*
- 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 department approval.*
- 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 department approval.*
- 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: Department approval. AP exam is required.*
- 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 80% in Italian I and department approval.*
- 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 department approval.*
- 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 department approval.*

NEW**0456 – Italian V Honors: One Credit (11,12)**

The course is designed to provide students of Italian with a more in-depth mastery of the four communicative skills: listening, speaking, reading and writing at the Intermediate-High level. The overall goal is to improve students' interpretive, interpersonal and presentational skills by stimulating their critical abilities in verbal and nonverbal meaningful contexts. This course implements past and present aspects of Italian society with its customs and traditions, as well as current cultural trends. The class is therefore conducted solely in Italian and students are highly encouraged and thus expected to express themselves in the target language in order to better their proficiency. *Prerequisite: Italian III, grade average of 95% and department approval.*

**0481 – Mandarin Chinese I: One Credit (9,10,11,12)**

Mandarin Chinese I is an introductory course in basic Mandarin Chinese that stresses pronunciation of phrases and will familiarize the student with the different sounds and intonations. Recognition of characters and character construction will also be explored along with certain cultural aspects and celebrations.

NEW**0482 – Mandarin Chinese II: One Credit (10,11,12)**

This course continues to build on the skills developed in Mandarin Chinese I. Students will continue to develop listening and speaking while expanding their vocabulary and writing skills. Students will be able to make simple to complex oral and written conversations while still focusing on writing characters, phrases and sentences. This class also provides a deeper insight into Chinese culture, geography, cross-cultural differences and current events. *Prerequisite: Mandarin Chinese I with a grade of 77% or better and department approval.*

## 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. The student will be challenged to adopt a lifestyle that 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: Students must submit a completed Leader Application by January 29, 2010. Students taking this course as a junior must enroll in Leaders PE senior year. This is a Two-Year Commitment. Department approval.*

### **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 PE III Leaders Prep. 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.*

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

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

Driver Education is taught through District 214 who determines the space availability and time offering. **A study hall is required for the semester the student is enrolled in Driver's Education.** *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.*

## SCIENCE

### **0711 – Biology Lab 0711: One Credit (9)**

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: Department approval and Entrance Exam scores for freshmen.*

### **0712 – Biology Lab: One Credit (9)**

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: Department approval 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 department approval.*

### **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 department approval.*

### **0705 – Earth Science Lab: One Credit (10,11)**

Earth Science is a lab course that concentrates on the functions of earth's systems. Emphasis is placed on earth's materials and forces, as well as geology, oceanography and meteorology. This course will focus on skill building, scientific reasoning, application of scientific principles, graphing and interpretation of data. *Prerequisite: Biology Lab (0712), successful completion of Algebra I and department approval.*

### **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. *Prerequisite: Successful completion of Algebra I, registration in Algebra II or Geometry, and department approval.*

**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 department approval.*

**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 students will develop a solid foundation of chemistry knowledge for future use. This course is less mathematically rigorous than Chemistry Lab (0722) or Chemistry Lab (Honors) in its problem-solving approach. *Prerequisite: Successful completion of Algebra I, a biology course and department approval.*

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

Environmental Science is a lab course designed to introduce the students to major ecological concepts and environmental problems such as ecosystems, natural resources, sustainable agriculture, the atmosphere, water, energy, pollution and population. Students may take both semesters or choose either semester. Two field studies and two major projects will occur each semester emphasizing a hands-on approach with various environmental topics. In addition to learning scientific concepts, the students will be expected to develop a personal environmental ethic that will reflect understanding of the stewardship of the Earth. Topics: Ecology, Nutrient Cycles, Biomes, Overpopulation, Global Warming, Current Environmental News Topics. *Prerequisites: Biology and one other science course, plus department approval.*

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

Environmental Science is a lab course designed to introduce the students to major ecological concepts and environmental problems such as ecosystems, natural resources, sustainable agriculture, the atmosphere, water, energy, pollution and population. Students may take both semesters or choose either semester. Two field studies and two major projects will occur each semester emphasizing a hands-on approach with various environmental topics. In addition to learning scientific concepts, the students will be expected to develop a personal environmental ethic that will reflect understanding of the stewardship of the Earth. Topics: Energy and its related issues, Air and Water as a resource, Pollution, Managing Human Impact, Environmental Law, Current Environmental News Topics. *Prerequisite: Biology and one other science course plus department approval.*

**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. The student gains 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 with department approval.*

**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: Chemistry Lab (Honors). Must be enrolled in Pre-Calculus or Pre-Calculus (Honors), plus department approval.*

**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. Department approval.*

**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: Department approval.*

**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 department approval.*

**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 chemistry 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 department approval. AP exam is required.*

**0716 – AP Biology Lab: One Credit (11,12)**

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. Students acquire an in-depth understanding of many biological processes and principles. Emphasis is on molecular and cell physiology, genetics, organisms and populations, evolution and ecology. A 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 department approval. May be taken concurrently in junior year with Physics. AP exam is required.*

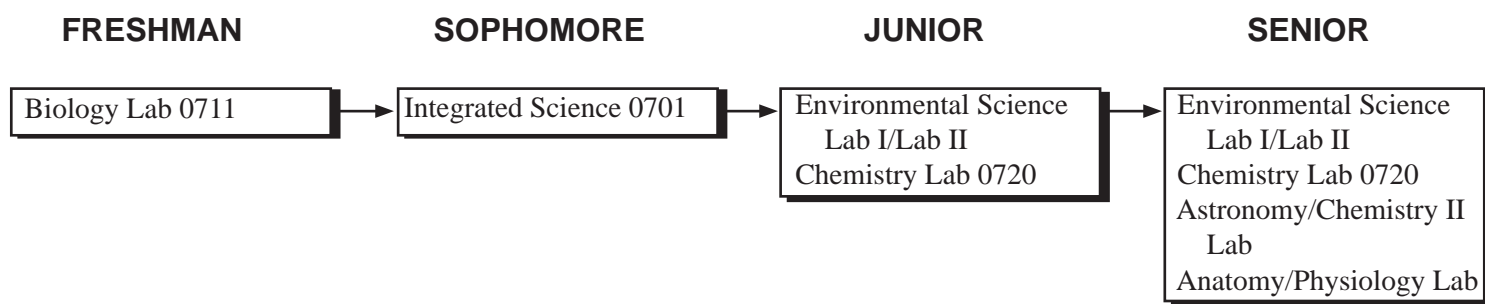
**0747 – AP Physics C Lab: One Credit**

(12)

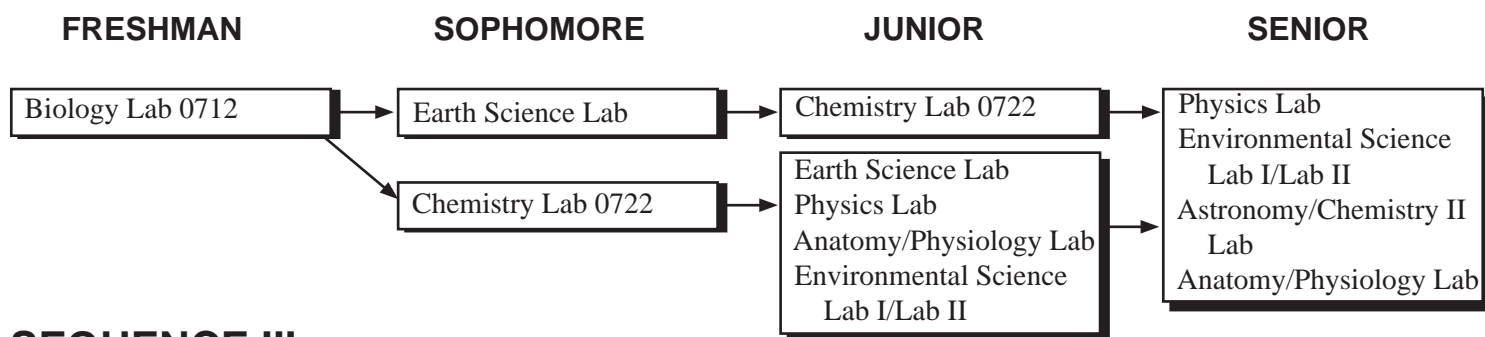
AP Physics C Lab is an introductory college-level course for accelerated students with a special interest in physics. Emphasis is on computerized experimentation, analysis of data and problem-solving skills. Course content will be determined by the topics emphasized in the national AP Physics examination. 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: Enrollment in Calculus or Pre-Calculus (Honors), Biology Lab (Honors), Chemistry Lab (Honors), Physics Lab (Honors), and department approval.* **AP exam is required.**

## Science Course Sequencing

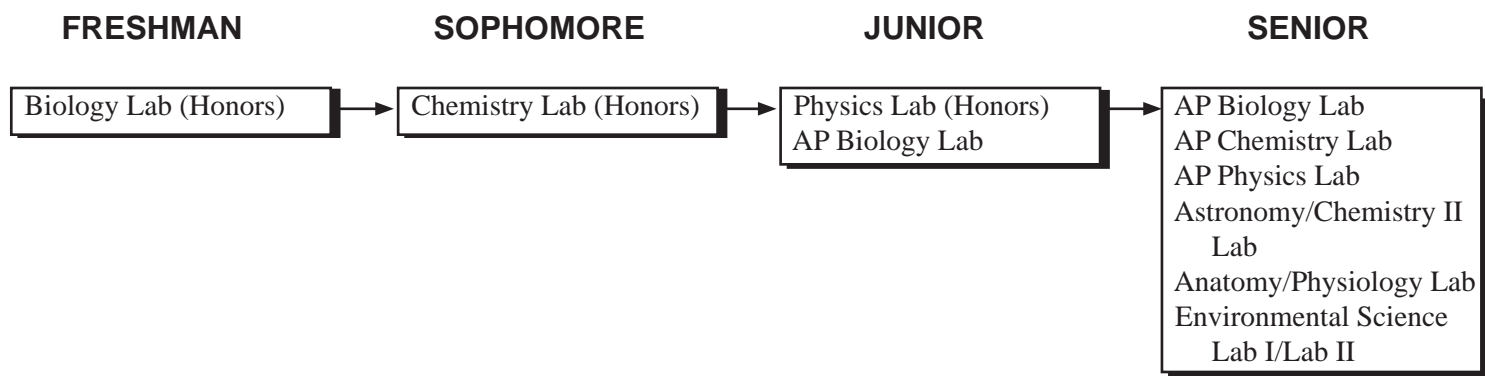
### SEQUENCE I



### SEQUENCE II



### SEQUENCE III



## SOCIAL STUDIES

**Students must complete one full year of U.S. History to fulfill the state requirement. All entering sophomores must take U.S. History to 1860 as a prerequisite to other U.S. History courses (U.S. History 1860 to WWII; U.S. History WWII to the present).**

**U.S. History to 1860 Honors is a prerequisite to AP U.S. History.**

### **Federal and State Constitution Tests Requirements – Class of 2011 and Class of 2012**

Students are required by the State of Illinois to pass both the Federal and the State Constitution Tests in order to receive their diploma. Students must independently complete a study guide packet prior to taking the tests or enroll in the one week summer school workshop. This study guide must be submitted prior to the test by the deadline identified on the website. Constitution tests are administered once each quarter and two times during the summer. Review sessions are offered for students prior to each testing date. ***Students must pass both Constitution tests by the first day of the second semester of their senior year.*** Students who do not meet this deadline will be ineligible to participate in prom, senior celebration, sports and co-curricular activities until this requirement is completed. **Students may opt to enroll in a one-week summer school workshop where they will complete the packets and take the tests.**



### **Federal and State Constitution Test Requirements – Class of 2013 and Class of 2014**

Students are required by the State of Illinois to pass both the Federal and the State Constitution Tests in order to receive their diploma. **During the summer between freshman and sophomore year, students will be assigned to independently complete the Constitution packet as a summer reading project. Packets are due by the first day of the school year. Students may opt to enroll in a one week summer school workshop where they will complete the packets and take the tests.**

#### **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 (Honors) 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. *Prerequisite: Department approval.*

**0362 – World History Integrated: One Credit (9)**

This course is the integration of two required freshmen courses, English 9 and World History. It earns two credits and covers two periods. In the course, we will examine historical issues and literature that share similar broad ideas about the world we live in. Using both historical study and literary analysis, we will explore how humans act in society, the true nature of human beings, the influence of power and the expression of ideas. *Prerequisite: Department approval.*

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

Geography covers the physical and human aspects of the world and their interrelation with many parts of the globe throughout history and the present day. In order to make clear the link between physical geographic features and human development, five fundamental themes are presented: location, place, human-environment 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. Summer reading will be required. *Note: Department approval. Completion of this course with an 85% average is a prerequisite 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 the student will understand religious, social, economic and political forces that shaped the development of the United States up to the end of this period. *Prerequisite to other U.S. History courses.*

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

This is a survey course covering the history of the country from the firing on Ft. Sumter in 1860 to the beginning of 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 the student 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 (11,12)**

This is a survey course covering the history of our country from the causes of 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. Students will understand religious, social, economic and political forces that have 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 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).* **AP exam is required.**

**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 geographic, racial, socio-economic, cultural and architectural development of Chicago. Particular emphasis is placed on the Native Americans, urbanization, the Fire, Columbian Exposition, mayors, machine politics and how to use public transportation to get around. Students will also read a novel related to the course content.

**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 theoretical approaches to psychology, possible careers, research methods, the brain, motivation and emotion, consciousness, learning, memory, and mental disorders and their treatment. Students will actively engage in learning through participation in lectures, the creation of a psychological experiment and group work.

**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 discussion.

**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-half 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 Comparative Government and Politics Test in May. College credit may also be earned through an arrangement with St. Mary's University of Minnesota. *Prerequisite: Department approval.*

*AP exam is required.*

**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 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: Department approval. AP exam is required.*

## APPENDIX

## 2010-2011 Tentative Rehearsal and Performance Schedule for Performing Arts Courses

The following is a list of rehearsals and performances of the indicated Performing Arts courses. As stated in the course description of each of these courses, "Participation in performances is required for a passing grade." Please note that these dates were compiled in January of 2010 and may be changed. Every effort has been made to include all dates, but additional rehearsals and performances may be added to the calendar. Students will be notified of all changes as soon as possible.

Date	Event	Time				
			Concert Choir	Jazz Band	Concert Band	Symphonic Band
August 10,12 & 17	Band Rehearsals	6:00 - 7:30 p.m.	X	X		
October 25	Fall Music Concert	3:00 - 5:00 p.m.	X	X	X	X
November 6*	Open House	1:00 - 3:00 p.m.			X	X
November 7*	Open House	6:30 - 8:30 p.m.			X	X
December 2	Winter Arts Festival rehearsal	3:00 - 6:00 p.m.	X	X	X	X
December 5	Winter Arts Festival	7:00 - 10:00 p.m.	X	X	X	X
December ? (TBA)	Area Christmas performances	during school day and/or evenings			X	X
February 19	"State of the Art" Band Contest	TBA	X	X		
February 26	"Jazz in the Meadows" Contest	TBA			X	
March 3	Fine Arts Week performance	during school day	X	X	X	X
March 19	North Shore Music Festival (optional)	TBA	X	X		X
April 7	Choral Showcase	7:00 - 9:00 p.m.				X
April 16	IHSA Organizational	TBA				X
April 29*	Mini-Tour to Area Schools	during school day				X
May 1	Spring Arts Festival	1:00 - 4:00 p.m.	X	X	X	X
May 15	Graduation	1:00 - 3:00 p.m.	X	X		

\* Date may change