

Notre Dame de Sion

2011 - 2012

COURSE CATALOG



Excellence in Education



Mission Statement

The Notre Dame de Sion School in Kansas City is an independent Roman Catholic school providing the highest quality college preparatory education from preschool through grade 12. Sion continues the tradition of the founding sisters, the Congregation of the Sisters of Notre Dame de Sion, inviting students to encounter God in a Catholic atmosphere that respects all faith traditions. The school partners with families and the community to prepare students for socially responsible, values based leadership in a culturally and religiously diverse world.

Vision Statement

Kansas City families will choose Notre Dame de Sion School to educate their children because of its academic excellence and Biblical values. They will cherish the school as a nurturing community where Catholic values, integrity, and respect prevail. At Sion, students will be empowered to develop and encouraged to use their unique gifts as they become self-confident, faith-filled adults who will know their "blessing" and bring about the Kingdom of God.

May, 2005

NOTRE DAME DE SION SERVICE LEARNING PROGRAM

"For a true education aims at the formation of the human person with respect to his/her ultimate goal and simultaneously with respect to the good of these societies of which, as an adult, he/she will share."

Vatican II, Declaration on Christian Education, Section I, Part I.

***"We constantly seek the face of God.
Sometimes God reveals himself to us
in the silence of contemplation
to which we give our time freely, open to receive.***

***At other times
our experience of God is intimately linked
to the encounter with, and the service of others;"
Constitution of Our Lady of Sion***

In accord with this goal, students are required to provide a minimum of 100 hours of service to the community during their four years at Sion. The Service Project Coordinator updates students regularly regarding volunteer needs in the community. For a complete description of the Service Learning Program, please refer to the High School Homepage at www.ndsion.edu then click on the Service Learning link.

GRADUATION REQUIREMENTS

2012

Credits – 26 credits are required for graduation.

Theology – 4.0 credits. A student may take a maximum of 4.5 credits of Religion. The core Religion courses and a Senior project for which .5 credit is earned must be successfully completed at Sion in order to graduate. Transfer students must complete only those religion classes that are required after enrollment plus the senior project.

English – 4 credits

Mathematics – 4 credits, including one class more advanced than Algebra II. A student must take math all four years.

Science – 3 credits, including Biology I and Chemistry I

World Languages – 2 credits (2 credits must be consecutively taken in the same language)

Social Studies – 3 credits, including 1 credit US History, 1/2 credit American Government

Physical Education – 1 credit

Practical Art/Computer – 1 credit

Fine Art – 1 credit (a student may take a maximum of 5 Fine Arts credits throughout the 4 years)

The remaining credits are earned through other electives which the student takes to suit her own particular interest. A student must take a minimum of 6 credits per year.

FRESHMAN PROGRAM

<u>Credit</u>	<u>Class</u>
1	English
1	*Algebra I
½	Intro to World Studies
1	*French I, Spanish I
1	Biology I
1	Faith Foundations
½	P. E.
½	Technological Literacy
	Guidance
Electives	
½	Intro to Journalism
½	Intro to Drama
½ or 1	Basic Drawing or Art Fundamentals
½	(requires Portfolio review)
1	Freshman Choir
½	Symphonie de Sion
1	Beg Debate/Forensics
	*Placement tests available in these subjects

SOPHOMORE PROGRAM

<u>Credit</u>	<u>Class</u>
1	English II
1	Geometry &/ or more advanced level
1	World History
1	French II, Spanish II, or more advanced level
1	Environmental Science and Bioethics
½	Catholic Social Teaching
½	P. E.
Electives	
1	Journalism Layout & Design
1	Art Fundamentals (or Art Elective if took Art Fundamentals in 9 th)
1	Beg/Intermediate/Adv Debate/Forensics
1	Concert Choir
½	Symphonie de Sion
1	Choeur de Sion (by audition)

JUNIOR PROGRAM

<u>Credit</u>	<u>Class</u>
1	English III
1	Algebra II or more advanced level
1	Chemistry I
1	World History in 2011-2012, US History after 2011-2012
1	Biblical Traditions/Religion Elective
1	Electives
Electives	
May include but not restricted to:	
1	World Language
½ -1	Intermediate/Adv Debate/Forensics
½ -1	Choir, Symphonie de Sion, Choeur de Sion
½ -1	Art/Journalism Electives
½ -1	Social Studies-American Government, must take Junior or Senior year.
½ -1	Computer Electives
½ -1	English Elective
½ -1	Science Elective

SENIOR PROGRAM

<u>Credit</u>	<u>Class</u>
1	English IV
1	Math
1	Faith Filled Life/Religion Elective
3	Electives

Note: all juniors and seniors must take at least six (6) classes each semester.

Electives
Choose electives from all courses in the program of studies. All students meet with their counselor during the scheduling process and are encouraged to carefully consider their electives choices. Which electives are offered each year is determined in part by student interest.

**COURSE CATALOG
2011 - 2012**

Contents:

ENGLISH.....1

FINE ARTS.....4

MATHEMATICS.....11

PHYSICAL EDUCATION.....13

PRACTICAL ARTS: COMPUTER EDUCATION.....14

THEOLOGY.....18

SCIENCE.....22

SOCIAL STUDIES.....25

WORLD LANGUAGES.....30

ENGLISH

ENGLISH I, I H

DEPARTMENT: ENGLISH
CREDIT: 1.0
GRADE: 9
PREREQUISITE: None
ADDITIONAL INFORMATION:

Freshman English is a course designed to strengthen students' skills in working with literature. The main text introduces the basic literary genre and various literary terms. Reading, writing and thinking skills are stressed as students review basic language structures while working with the literature. The emphasis in writing is on organization and development as well as mechanical correctness. Vocabulary and spelling exercises are integrated into the literature and composition programs.

ENGLISH II, II H

DEPARTMENT: ENGLISH
CREDIT: 1.0
GRADE: 10
PREREQUISITE: English I
ADDITIONAL INFORMATION:

Sophomore English is a chronological study of American literature. Analytical reading is emphasized and good writing skills are promoted. A major focus of this year is the development of organized essay writing. Selected novels and plays are studied in addition to the contents of the anthology. Vocabulary study continues to be integrated into the course curriculum.

ENGLISH III

DEPARTMENT: ENGLISH
CREDIT: 1.0
GRADE: 11
PREREQUISITE: English II
ADDITIONAL INFORMATION: English III or AP English III required for graduation.

Junior English is a chronological study of British literature. In addition to the anthology, other novels and plays are studied. Composition is integrated into the literature with various theme assignments. Vocabulary is studied with special emphasis on exercises in preparation for College Board testing. The research paper is taught in the first semester.

ENGLISH III AP

DEPARTMENT: ENGLISH
CREDIT: 1.0
GRADE: 11
PREREQUISITE: English II and departmental approval
ADDITIONAL INFORMATION: English III or AP English III required for graduation. College credit is earned on the basis of the College Board exam score.

This is a writing intensive course based on a critical reading of British Literature. Students will engage in a variety of writing tasks, but will concentrate on the planning, writing and revising of sustained essays according to the principles of good rhetoric and discourse. Students will also become proficient in the spontaneous essay in which they will be able to recognize aims and modes of discourse and employ a variety of stylistic devices to enhance their writing in general and to help prepare them for the nationally administered English Language and Composition Advanced Placement Exam in May.

ENGLISH IV

DEPARTMENT: ENGLISH

CREDIT: 1.0

GRADE: 12

PREREQUISITE: English III

ADDITIONAL INFORMATION: English IV or AP English IV required for graduation.

Senior English is a chronological study of World literature. In addition to the anthology, other novels and plays are studied. Composition is integrated into the literature with various theme assignments and vocabulary study continues.

ENGLISH IV AP

DEPARTMENT: ENGLISH

CREDIT: 1.0

GRADE: 12

PREREQUISITE: English I, II, III and teacher approval

ADDITIONAL INFORMATION: English IV or AP English IV required for graduation. College credit is earned on the basis of the College Board exam score.

In this advanced course, emphasis is on literary analysis of a varied selection of literature, advanced composition, and independent study. Students take the English Literature and Composition Advanced Placement test given at the end of the year. The students may gain college credit by successfully completing the test. Students are admitted on the basis of their previous English grades, teacher recommendation, and other assessment results.

LITERATURE AND FILM

DEPARTMENT: ENGLISH

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: None

ADDITIONAL INFORMATION:

The cinema industry looks constantly to novels for subject matter. In this class, students will read and discuss a novel and then watch the film inspired by it. It will be important to note and understand the changes a filmmaker must make in order to transform one art form into another, changes which could be structurally necessary or culturally prudent. Several genres of literature and film will be explored which could include the western, romance, adventure and Gothic among others. Literature and films from other cultures will also be considered. Students will be expected to engage in critical discussion and produce written analysis.

CREATIVE WRITING

DEPARTMENT: ENGLISH

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: None

ADDITIONAL INFORMATION:

Do you like to write? Stories? Poetry? Would you like to read and edit the work of your fellow students? This class may be the place for you. (It will not be about essay writing, Okay!) You will have some definite assignments – like challenges for you to try to complete and there will be some chance for you to help create the assignments as well. If your artistic bent is to play with pens, pencils, words, and language instead of paintbrushes, sign up for this class.

BEGINNING DEBATE AND FORENSICS

DEPARTMENT: ENGLISH/FINE ARTS

CREDIT: 1.0

GRADE: 9, 10, 11

PREREQUISITE: None

ADDITIONAL INFORMATION: 0.5 credit in English and 0.5 credit Fine Arts earned for this class.

Beginning Debate and Forensics is a yearlong introduction to the theory and practice of competitive speech and debate. Students will learn the basic rules and formats for a wide variety of debate, speaking, and interpretation events. Students will be expected to participate in the full spectrum of competitive speech and debate events in class, but will be allowed to focus on specific areas of interest for competition. The ultimate goal of this class is to ready students to represent Notre Dame de Sion at interscholastic speech and debate tournaments. Students enrolled in Beginning Debate and Forensics will be expected to attend weekly after school practice sessions and THREE interscholastic tournaments per SEMESTER.

INTERMEDIATE/ADVANCED DEBATE/FORENSICS I, II

DEPARTMENT: ENGLISH/ and/or FINE ARTS

CREDIT: 0.5

GRADE: 10, 11, 12

PREREQUISITE: Beginning Debate/Forensics

ADDITIONAL INFORMATION: Type of credit depends on whether the student concentration is Debate or Forensics.

Intermediate Debate and Forensics is a semester class open to sophomores, juniors and seniors who have previously completed Beginning Debate and Forensics. Intermediate Debate and Forensics is designed to be a continuation and refinement of the skills learned in Beginning Debate and Forensics, with the emphasis being on achieving readiness for varsity competition at interscholastic debate tournaments. Students in Intermediate Debate and Forensics are required to attend at least three such tournaments per semester.

INTRODUCTION TO PUBLIC SPEAKING

DEPARTMENT: ENGLISH

CREDIT: 0.5

GRADE: 9

PREREQUISITE: None

ADDITIONAL INFORMATION:

Introduction to Public Speaking is a one-semester survey of the interesting field of human communication. Students will be introduced to the basics of effective communication in a wide variety of contexts, with an emphasis on learning skills and techniques that can be applied to real world situations. The primary goals of this class are 1) Build students' confidence in speaking and presentational situations, and 2) Give some preparation for the speaking/communication classes required by most colleges as a part of the core undergraduate curriculum.

FINE ARTS: VISUAL

ART FUNDAMENTALS

DEPARTMENT: FINE ARTS: Visual
CREDIT: 1.0
GRADE: 10, 11, 12
PREREQUISITE: None
ADDITIONAL INFORMATION:

Art history, criticism, aesthetics, and studio art making skills are all covered in this introductory course. The basic design concepts of color, line, shape, form, texture, pattern, and balance will all be introduced. This is one of the prerequisites (along with Basic Drawing) for other visual art electives. Visual thinking is stressed. Freshmen may enroll in this class upon a review of a portfolio of their work.

BASIC DRAWING

DEPARTMENT: FINE ARTS: Visual
CREDIT: 0.5
GRADE: 9, 11, or 12
PREREQUISITE: None
ADDITIONAL INFORMATION:

In this drawing course, still life, color theory, perspective, figure and creative drawing assignments are stressed. An introduction to various drawing media helps establish a good background for future art courses.

PAINTING

DEPARTMENT: FINE ARTS: Visual
CREDIT: 0.5
GRADE: 11, 12
PREREQUISITE: Basic Drawing and/or Art Fundamentals
ADDITIONAL INFORMATION:

Students continue their exploration of design concepts. They will learn about artists who use these media and will experiment with a variety of 2-D painting techniques including stretching canvas, blending pigments, and working with different tools. Composition skills will be covered. Women artists who explore watercolor and colored pencil will be introduced as students problem solve with the same media. Critical thinking skills are covered, along with aesthetic dialogue as the class begins to learn to analyze works of art.

PORTFOLIO ART I

DEPARTMENT: FINE ARTS: Visual
CREDIT: 0.5
GRADE: 11, 12
PREREQUISITE: Drawing, Art I, portfolio review and/or letter of recommendation from an art teacher.
ADDITIONAL INFORMATION:

This advanced level course, taken for one semester or two, requires the submission of a portfolio for review during January of the year before the class is taken, and/or a letter of recommendation from an art instructor. Students will work toward the completion of a portfolio that may be used for scholarships, contests, and entry into art departments at the college or university level. Drawing, painting, and design processes will be stressed, with an emphasis on the work of professional artists throughout history. Aesthetics and art criticism are covered, including written assignments and verbal critiques of student work.

PORTFOLIO ART II

DEPARTMENT: FINE ARTS: Visual

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: Portfolio Art I.

ADDITIONAL INFORMATION:

This advanced level course, taken for one semester or two, requires the submission of a portfolio for review during January of the year before the class is taken, and/or a letter of recommendation from an art instructor. Students will work toward the completion of a portfolio that may be used for scholarships, contests, and entry into art departments at the college or university level. Drawing, painting, and design processes will be stressed, with an emphasis on the work of professional artists throughout history. Aesthetics and art criticism are covered, including written assignments and verbal critiques of student work.

ART 2D DESIGN AP I

DEPARTMENT: FINE ARTS: Visual

CREDIT: 0.5

GRADE: 12

PREREQUISITE: 2 semesters of Portfolio or comparable courses, Art 2D Design AP I, Drawing, Art, resubmission of portfolio for review and a letter of recommendation from an art teacher.

ADDITIONAL INFORMATION: College Credit is earned on the basis of the College Board portfolio score.

This advanced level course is the continuation of Portfolio studies. Semesters three and four of portfolio preparation include drawing, painting, design, and mixed media challenges emphasizing critical thinking and advanced problem-solving skills. All students must resubmit their portfolios for admission, and include a letter of recommendation from an art instructor in order to take this course.

ART 2D DESIGN AP II

DEPARTMENT: FINE ARTS: Visual

CREDIT: 0.5

GRADE: 12

PREREQUISITE: 2 semesters of Portfolio or comparable courses, Drawing, Art, resubmission of portfolio for review and a letter of recommendation from an art teacher.

ADDITIONAL INFORMATION: College Credit is earned on the basis of the college Board portfolio score.

This advanced level course is the continuation of Portfolio studies. Semesters three and four of portfolio preparation include drawing, painting, design, and mixed media challenges emphasizing critical thinking and advanced problem-solving skills. All students must resubmit their portfolios for admission, and include a letter of recommendation from an art instructor in order to take this course.

ART HISTORY

DEPARTMENT: FINE ARTS: Visual

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: None

ADDITIONAL INFORMATION: Fine Arts or Social Studies credit.

Images of the built environment, sculpture, jewelry, clothing, drawings, and paintings and everyday objects from a number of cultures will be analyzed. This semester course surveys the wide range of human expression from prehistoric through contemporary times.

MIXED MEDIA I, II

DEPARTMENT: FINE ARTS: Visual
CREDIT: .50 or 1.0
GRADE: 11, 12
PREREQUISITE: Drawing &/or Art I
ADDITIONAL INFORMATION:

This multi-media class stresses critical thinking and advanced problem-solving with 2-D and 3D art making processes. It can be taken for one semester or two. Artists, art history, art criticism, and aesthetics will also be covered.

DISCOVERING THE HOLY THROUGH THE ARTS

DEPARTMENT: FINE ARTS: Visual
CREDIT: 0.5
GRADE: 11, 12
PREREQUISITE: None
ADDITIONAL INFORMATION: Fine Art or Theology credit.

By exploring identity, nature, the complexities of relationships, community, and the creative processes associated with the visual as well as performing arts, students will come to identify and nurture a world view in which creation and all its diversity is a manifestation of the Holy. In this class students will discuss such questions as: What does it mean to be human, created in the image of God? What are our responses to suffering? What is it to be an individual? What responsibility do we have to community, the Divine, and ourselves?

CERAMICS I, II

DEPARTMENT: FINE ARTS: Visual
CREDIT: 0.5
GRADE: 11, 12
PREREQUISITE: None
ADDITIONAL INFORMATION:

This class will study a variety of 3-D media with an emphasis on clay. Students will practice the basic hand-building techniques of coil, pinch, and slab. They will also explore the work of a variety of sculptors and designers as they problem solve with creating forms out of wire, paper, wood, and found objects.

DIGITAL AUDIO AND VIDEO PRODUCTION

DEPARTMENT: FINE ARTS: Visual
CREDIT: 0.5
GRADE: 11, 12
PREREQUISITE: None
ADDITIONAL INFORMATION: Fine Art or Practical Arts credit

This class will provide an introduction to Apple's iLife suite of programs, with emphasis on the use of Garageband and iMovie to create original audio and video podcast productions. The course begins with evaluation and discussion of selected video and audio works, with attention to format, tone, production values, and purpose. Working individually or in groups, students will then plan, record and edit their own original audio documentaries and short fictional movies. Tools include state-of-the art video and audio equipment and iMac computers.

DIGITAL MEDIA SIREN

DEPARTMENT: FINE ARTS/PRACTICAL ARTS

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: To be admitted to the class, students must apply and be accepted to the Siren staff.

ADDITIONAL INFORMATION:

Staffers will work on tasks related to production of a dynamic, web-based literary arts magazine. Creative work to be featured in the magazine will be produced by staffers and solicited from the student body; editors for sections of the magazine will work to prepare content for publication on the web. Students will learn the basics of Apple's iLife suite, and depending on area of concentration, selected Adobe Creative Suite applications. Options for areas of concentration include: video production, audio production, digital photography, fiction, poetry, web design, animation, traditional visual arts, and publicity management. A range of high quality audio and visual equipment will be available for use in various multimedia projects.

PHOTOSHOP

DEPARTMENT: FINE ARTS: Visual

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: None

ADDITIONAL INFORMATION: Fine Art or Practical Art credit

This course will first explore the basics of good photo composition. After that we will explore the basics of Adobe Photoshop CS4. Learning targets include photo adjustments, manipulation, retouching and combining images. We will also work with special effects and actions applied to photos. In addition to this, students will complete a section on advertising. Overall, students will expand their CS4 knowledge, skill and overall artistic skill in conjunction with photo alteration and creation.

BEGINNING PHOTO/PHOTO JOURNALISM

DEPARTMENT: FINE ARTS: Visual

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: None

ADDITIONAL INFORMATION:

This course will include digital, wet/darkroom/film techniques as well as Photojournalism.

ADVANCED PHOTOGRAPHY

DEPARTMENT: FINE ARTS: Visual

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: Photography I

ADDITIONAL INFORMATION:

This course builds on the skills acquired in Beginning Photo/Photojournalism. More advanced techniques and skills listed above will be taught.

JOURNALISM PUBLICATION LAYOUT AND DESIGN

DEPARTMENT: FINE ARTS: Visual

CREDIT: 1.0

GRADE: 10

PREREQUISITE: Introduction to Journalism or by instructor approval.

ADDITIONAL INFORMATION: .50 Practical Art, .50 Fine Art credit

This is a full year course and a prerequisite for being on Sion's newspaper or yearbook staff. This course will explore the principles of professional layout and graphic design used by newspapers, magazines, ad agencies, PR firms, and web-designers. The class involves the creation and production of graphic projects, the blending of text, layout, and photos to create a dynamic package, and emphasizes creative thinking to solve communication concepts. Students will become competent in several computer programs especially Adobe InDesign, the industry standard, as well as Photoshop and Adobe Illustrator. The course will involve individual and group work and students will actually create a newspaper, a mini yearbook, a multiple page, high quality four color magazine, and an industry ready layout design portfolio. Several guest speakers will be scheduled and students will take part in Sion's 'Shadow a Journalism Pro' program, spending time with a professional graphic designer.

INTRODUCTION TO DRAMA

DEPARTMENT: FINE ARTS: Visual

CREDIT: 0.5

GRADE: 9

PREREQUISITE: None

ADDITIONAL INFORMATION:

Introduction to Drama is a one-semester survey of the dramatic arts. Students will learn about the history of theatre, and be introduced to the basic principles of acting, directing, stagecraft, and oral interpretation. Students will participate in several hands-on activities, and will have the opportunity to explore their talents in a supportive classroom setting.

THEATRE DESIGN

DEPARTMENT: FINE ARTS: Visual

CREDIT: 1.0

GRADE:

PREREQUISITE: None

ADDITIONAL INFORMATION: Teacher Approval

Students will explore various aspects of technical theatre including, but not limited to: lighting design and sound production; set construction and design; scene painting; make-up and costume design.

FINE ARTS: MUSIC

APPLIED MUSIC

DEPARTMENT: FINE ARTS: Music
CREDIT: 0.5
GRADE: 11, 12
PREREQUISITE: None
ADDITIONAL INFORMATION: Teacher Approval

Students improve instrumental or vocal performance proficiency with the aid of computer software under guidance of teacher. Students may work independently on sight reading, ear training or solo performance.

MUSIC APPRECIATION

DEPARTMENT: FINE ARTS: Music
CREDIT: 1.0
GRADE: 11, 12
PREREQUISITE: None
ADDITIONAL INFORMATION:

This two-semester course encourages students to explore history, culture, and musical styles through active listening to music with CDs and on-line resources. The elements of music will be studied: melody, rhythm, harmony, texture, timbre, dynamics, form, texts of sung literature, and genre.

FRESHMAN CHOIR

DEPARTMENT: FINE ARTS: Music
CREDIT: 0.5
GRADE: 9
PREREQUISITE: None
ADDITIONAL INFORMATION:

Freshman choir is a beginning course in the study of music fundamentals, musical styles and singing. An introduction is presented to music notation, ear training, musical styles and vocal technique. Performances are prepared for on-campus events.

CONCERT CHOIR

DEPARTMENT: FINE ARTS: Music
CREDIT: 1.0
GRADE: 10, 11, 12
PREREQUISITE: None
ADDITIONAL INFORMATION:

The focus of this ensemble will be to develop the musical skills of the beginning or inexperienced singer. Goals: develop healthy vocal technique, introduction to basic theory and sight-singing skills. Performances outside of school will include winter and spring concerts, masses, and large ensemble festivals.

CHOEUR de SION I

DEPARTMENT: FINE ARTS: Music
CREDIT: 1.0
GRADE: 10, 11, 12
PREREQUISITE: Audition required
ADDITIONAL INFORMATION:

This is a select ensemble whose primary focus is performance of a variety of musical styles and more advanced sight reading techniques. Goals: develop healthy vocal technique, improve sight-singing skills, and develop a mastery of musical styles. Performances will include: winter and spring concerts, masses, off-site masses, nursing homes, and large group festivals.

CHOEUR de SION II

DEPARTMENT: FINE ARTS: Music
CREDIT: 1.0
GRADE: 10, 11, 12
PREREQUISITE: Audition required
ADDITIONAL INFORMATION:

This is a select ensemble whose primary focus is performance of a variety of musical styles and more advanced sight reading techniques. Goals: develop healthy vocal technique, improve sight-singing skills, and develop a mastery of musical styles. Performances will include: winter and spring concerts, masses, off-site masses, nursing homes, and large group festivals.

SYMPHONIE de SION

DEPARTMENT: FINE ARTS: Music
CREDIT: 0.5 per year
GRADE: 9, 10, 11, 12
PREREQUISITE: None
ADDITIONAL INFORMATION:

This performance group will explore music from a variety of musical periods. Choice of music will be based upon the instrumentation of class enrollment. Goals: develop a mastery of musical techniques and improve sight-reading skills. Performances will include masses, winter and spring concerts, and local tours. This class meets before and after school.

MATHEMATICS

ALGEBRA I, I H

DEPARTMENT: MATHEMATICS

CREDIT: 1.0

GRADE: 9

PREREQUISITE: None

ADDITIONAL INFORMATION:

This is a one year course in modern Algebra. It is designed to help the students develop skills in the performance of algebraic techniques and in setting algebraic conditions for word problems. The standards set by The National Council of Teachers of Mathematics are implemented. The use of the graphing calculator is introduced.

GEOMETRY, GEOMETRY H

DEPARTMENT: MATHEMATICS

CREDIT: 1.0

GRADE: 9, 10

PREREQUISITE: Algebra I

ADDITIONAL INFORMATION:

This course stresses the nature and use of deductive reasoning as applied to plane and solid geometry. Fundamentals learned in algebra are used to solve geometric problems.

ALGEBRA II

DEPARTMENT: MATHEMATICS

CREDIT: 1.0

GRADE: 9, 10, 11, 12

PREREQUISITE: Algebra I and Geometry

ADDITIONAL INFORMATION:

This course reviews and expands upon the fundamentals of the one year course in Algebra and continues with the study of linear equations, rational expressions, matrices, functions (polynomial, rational, and exponential). Graphing calculator technology is integrated throughout the course.

ALGEBRA II HONORS

DEPARTMENT: MATHEMATICS

CREDIT: 1.0

GRADE: 9, 10, 11, 12

PREREQUISITE: Honors Algebra I, Honors Geometry and teacher recommendation.

ADDITIONAL INFORMATION:

This course will cover all topics in the text, including systems of linear equations, matrices, functions (polynomial, rational, exponential, logarithmic), conic sections, sequences and series, and an introduction to trigonometry and probability & statistics. Graphing calculator technology is integrated throughout the course.

INTRODUCTION TO COLLEGE ALGEBRA

DEPARTMENT: MATHEMATICS

CREDIT: 1.0

GRADE: 12

PREREQUISITE: Algebra II

ADDITIONAL INFORMATION: College credit is earned on the basis of the College Board exam score.

This is a year course designed to prepare the students for College Algebra. Concepts that will be included in the content will be linear functions, coordinate geometry, trigonometry, logarithms, sequence and series and others.

AB CALCULUS AP

DEPARTMENT: MATHEMATICS

CREDIT: 1.0

GRADE: 11, 12

PREREQUISITE: Honors Pre-Calculus and teacher recommendation.

ADDITIONAL INFORMATION: College credit is earned on the basis of the College Board exam score.

This is a year course in elementary functions and introductory calculus. Primary emphasis is placed on an intuitive understanding of the concepts of limits, differential, and integral calculus as well as experience with basic techniques and applications. Graphing calculator technology is integrated throughout the course.

INTRODUCTION TO PRE-CALCULUS

DEPARTMENT: MATHEMATICS

CREDIT: 1.0

GRADE: 11 or 12

PREREQUISITE: Algebra II, and teacher recommendation.

ADDITIONAL INFORMATION:

This is a year course that will reinforce and build on the concepts about functions learned in Algebra II including linear, quadratic exponential, and logarithmic functions and models. The course will give students a significant foundation in trigonometry as they cover topics which include the unit circle, right triangle trigonometry, Law of Sines and Cosines, and inverse trig functions. It will also give them a foundation in introductory statistics as they learn about measures of center and spread, displaying data using a variety of different graphs, z-scores, and probability. Graphing calculator technology is integrated throughout the course.

PRE-CALCULUS

DEPARTMENT: MATHEMATICS

CREDIT: 1.0

GRADE: 10, 11, 12

PREREQUISITE: Geometry, Algebra II, and teacher recommendation.

ADDITIONAL INFORMATION:

This is a year course designed to prepare the students for first year college calculus. First semester topics include a thorough investigation of linear, polynomial and rational functions. The second semester includes exponential, logarithmic and trigonometric functions. These concepts will be enhanced by the extensive use of the graphing calculator.

PRE-CALCULUS HONORS

DEPARTMENT: MATHEMATICS

CREDIT: 1.0

GRADE: 10, 11, 12

PREREQUISITE: Honors Geometry, Honors Algebra II, and teacher recommendation.

ADDITIONAL INFORMATION:

This fast paced course expands on basic Pre-Calculus concepts introduced in Honors Algebra II and lays the foundation for AP Calculus. First semester topics include linear, polynomial, rational, exponential, and logarithmic functions. The second semester includes a thorough investigation of trigonometry, including trigonometric functions, identities, and applications. The second semester will also include parametric equations, conical sections, matrices, and sequence and series. These concepts will be enhanced by the extensive use of the graphing calculator.

PHYSICAL EDUCATION

PHYSICAL EDUCATION I

DEPARTMENT: PHYSICAL EDUCATION

CREDIT: 0.5

GRADE: 9

PREREQUISITE: None

ADDITIONAL INFORMATION:

This is the freshmen course which meets daily for one semester. Emphasis is on physical fitness and health components which include aerobic endurance, body composition, flexibility, and muscular strength. Activities include team sports, cardiovascular fitness, calisthenics, yoga, pilates, and meditation.

PHYSICAL EDUCATION II

DEPARTMENT: PHYSICAL EDUCATION

CREDIT: 0.5

GRADE: 10

PREREQUISITE: None

ADDITIONAL INFORMATION:

This is the sophomore course which meets daily for one semester. Continued emphasis is placed on physical fitness, health components, and especially toward establishing a lifelong commitment to personal fitness. Various nutrition topics will be discussed throughout the semester. Activities include team sports, cardiovascular fitness, calisthenics, yoga, pilates, and meditation.

LIFETIME SPORTS

DEPARTMENT: PHYSICAL EDUCATION

CREDIT: 0.5

GRADE: 12

PREREQUISITE: One full credit in PE. Exceptions must be approved by Academic Dean.

ADDITIONAL INFORMATION:

Lifetime Sports offers a student the opportunity to learn and participate in the skills of sports that can be played throughout one's lifetime. The disciplines that are taught in the course are golf, tennis, and bowling. A fee for bowling and golf will be required for the use of the facilities. The fee for the class is \$105.00 which includes bowling, golf, and tennis.

PRACTICAL ARTS: COMPUTER EDUCATION

MICROSOFT OFFICE APPLICATIONS

DEPARTMENT: PRACTICAL ARTS: Computer Education

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: None

ADDITIONAL INFORMATION:

Microsoft Office will be explored in greater depth using PowerPoint, Word and Excel. The course will be tutorial based with exercise files to complete. After a series of tutorials, the students will complete a related project.

INTRODUCTION TO JOURNALISM

DEPARTMENT: PRACTICAL ARTS: Computer Education

CREDIT: 0.5

GRADE: 9 or by approval.

PREREQUISITE: None

ADDITIONAL INFORMATION:

This course offers the student an introduction to the field of journalism and mass communications and provides a firm background in journalistic writing techniques. Beginning with an introductory study of American journalism and journalistic ethics, students will then spend some time exploring the seven areas of mass communications and their respective career opportunities. The bulk of the course covers the essential elements of journalistic writing: the news story, the editorial, the review, the sports story, the feature, and the investigative report. Emphasis will be placed on magazine style reporting and features utilizing New Journalism techniques, the incorporation of creative writers' techniques into journalism. Students will also spend time learning and refining interviewing techniques and sharpening observation skills. Extensive writing is involved along with hands on individual and group activities and projects. Students will also have an opportunity to publish some work in Le Journal, Sion's newspaper. Many area journalists will serve as guest speakers and students will have the opportunity to actually Shadow a Journalism Pro. This course is one prerequisite for being on the school's newspaper or yearbook.

JOURNALISM LAYOUT AND DESIGN

DEPARTMENT: PRACTICAL ARTS/FINE ARTS

CREDIT: 1.0

GRADE: 10

PREREQUISITE: Introduction to Journalism or by instructor approval.

ADDITIONAL INFORMATION: .50 credit Practical Art, .50 Fine Art credit

This is a full year course and a prerequisite to being on Sion's newspaper or yearbook. This course will explore the principles of professional layout and graphic design used by newspapers, magazines, ad agencies, PR firms, and web-designers. The class involves the creation and production of graphic projects, the blending of text, layout, and photos to create a dynamic package, and emphasizes creative thinking to solve communication concepts. Students will become competent in several computer programs especially Adobe InDesign, the industry standard, as well as Photoshop and Adobe Illustrator. The course will involve individual and group work and students will actually create a newspaper, a mini yearbook, a multiple page, high quality four color magazine, and an industry ready layout design portfolio. Several guest speakers will be scheduled and students will take part in Sion's Shadow a Journalism Pro program, spending time with a professional graphic designer.

DIGITAL MEDIA SIREN

DEPARTMENT: PRACTICAL ARTS or FINE ARTS

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: To be admitted to the class, students must apply and be accepted to the Siren staff.

ADDITIONAL INFORMATION:

Staffers will work on tasks related to production of a dynamic, web-based literary arts magazine. Creative work to be featured in the magazine will be produced by staffers and solicited from the student body; editors for sections of the magazine will work to prepare content for publication on the web. Students will learn the basics of Apple's iLife suite, and depending on area of concentration, selected Adobe Creative Suite applications. Options for areas of concentration include: video production, audio production, digital photography, fiction, poetry, web design, animation, traditional visual arts, and publicity management. A range of high quality audio and visual equipment will be available for use in various multimedia projects.

DESKTOP PUBLISHING: YEARBOOK I, II

DEPARTMENT: PRACTICAL ARTS: Computer Education

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: Must be on Yearbook Staff.

ADDITIONAL INFORMATION:

Desktop Publishing: Yearbook is designed to teach desktop publishing skills with Adobe InDesign. The course will focus on principles of design, typography, and mechanics of computer publication production. Students will complete lessons and projects covering different aspects of using Adobe InDesign. Students will also have an introduction to image editing using Adobe Photoshop to edit scanned and digital images and they will apply their knowledge to complete assigned work for the Sion yearbook. The course will be self-paced by the students enrolled—they will have a list of objectives to complete on a weekly, quarterly, and semester basis. They will complete projects and assignments using guided tutorial materials. Students are assumed to have a working knowledge of word processing and basic computer user skills—opening files & programs, saving files, etc.

DESKTOP PUBLISHING: NEWSPAPER I, II

DEPARTMENT: PRACTICAL ARTS: Computer Education

CREDIT: 0.5 each

GRADE: 11, 12

PREREQUISITE: Students must be active members of a publication staff.

ADDITIONAL INFORMATION:

Desktop Publishing: Newspaper is designed to teach desktop publishing skills with Adobe InDesign. The course will focus on principles of design, typography, and mechanics of computer publication production. Students will complete lessons and projects covering different aspects of using Adobe InDesign. Students will also have an introduction to image editing using Adobe Photoshop to edit scanned and digital images. Then they will apply their knowledge to complete assigned work for the Sion newspaper. In this course staff members of the school newspaper will learn about the application of new media, new technology, and solid reporting skills which will enable them to inform and entertain our school community through the school newspaper. Journalists who take this class will learn to cover stories at our school, in our community, and in the world. In addition to learning skills of reporting, writing, editing photography, page layout and design, students will learn about the legal and ethical aspects of journalism and will develop leadership skills through learning to work in a team.

TECH LITERACY

DEPARTMENT: PRACTICAL ARTS: Computer Education

CREDIT: 0.5

GRADE: 9 and transfer students

PREREQUISITE: Upon entering classes at NDS, students should be able to type 30-35 words-per-minute with few errors and possess a basic understanding: 1) file and desktop management (creating, saving, and retrieving files) 2) information fluency (how to use the internet for research) Microsoft Office suite (Word, Excel, & Powerpoint).

ADDITIONAL INFORMATION:

This is a survey course designed to help students navigate the various types of computer applications and digital content that they will encounter at Sion. Some of the topics covered in the course are: a keyboarding refresher; digital citizenship basics (ethical uses of technology); evaluation of web site content; online collaboration Tools (i.e. Google docs, online calendars); Web Tools for Time and Information Management (i.e. bookmarking, online document storage); basic web design; blogging; productivity applications; troubleshooting and network know-how; Aesthetics and Technology (how to make your project look its best); Introduction to Digital Media (photos, video, and sound).

INTRODUCTION TO HTML

DEPARTMENT: PRACTICAL ARTS: Computer Education

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE:

ADDITIONAL INFORMATION:

This course is an introduction to HyperText Markup Language--the 'code' used to create web. We will learn to code a web page using only a basic text program. The course will include the use of CSS (cascading style sheets), the currently accepted standard for web pages. Software such as Adobe Dreamweaver will be introduced later in the course. The course will be self-paced by the students enrolled--they will have a list of objectives to complete and deadlines to meet on a weekly, quarterly, and semester basis. They will complete projects and assignments using guided tutorial materials.

PHOTOSHOP

DEPARTMENT: PRACTICAL ARTS/FINE ARTS

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: None

ADDITIONAL INFORMATION: Fine Art or Practical Art credit

This course will first explore the basics of good photo composition. After that we will explore the basics of Adobe Photoshop CS4. Learning targets include photo adjustments, manipulation, retouching and combining images. We will also work with special effects and actions applied to photos. In addition to this, students will complete a section on advertising. Overall, students will expand their CS4 knowledge, skill and overall artistic skill in conjunction with photo alteration and creation.

DIGITAL AUDIO AND VIDEO PRODUCTION

DEPARTMENT: PRACTICAL ARTS/FINE ARTS

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: None

ADDITIONAL INFORMATION: Fine Art or Practical Art credit

This class will provide an introduction to Apple's iLife suite of programs, with emphasis on the use of Garageband and iMovie to create original audio and video podcast productions. The course begins with evaluation and discussion of selected video and audio works, with attention to format, tone, production values, and purpose. Working individually or in groups, students will then plan, record and edit their own original audio documentaries and short fictional movies. Tools include state-of-the-art video and audio equipment and iMac computers.

THEOLOGY

FAITH FOUNDATIONS

DEPARTMENT: THEOLOGY
CREDIT: 1.0
GRADE: 9
PREREQUISITE: None
ADDITIONAL INFORMATION:

This overview of Catholic Christianity and introduction to the Scriptures offers to incoming Catholic students a review and more mature study of basic elements of their faith. For students of various Christian denominations, this overview enables each to see the similarities, differences, and the historical perspective which has shaped Christianity. Students of all faith backgrounds find this initial course a valuable orientation to the religious life of the Sion community.

CATHOLIC SOCIAL TEACHING

DEPARTMENT: THEOLOGY
CREDIT: 0.5
GRADE: 10
PREREQUISITE: Theology I (unless student is a transfer).
ADDITIONAL INFORMATION:

In this course students learn classic principles which guide all moral judgment, as well as a Biblical vision for living a virtuous life. Students engage in research and critical thinking around contemporary moral issues and real choices facing teens today. The Catholic Christian moral teaching is presented thoroughly, while students of all faith backgrounds are also encouraged to study and share the teachings of their tradition.

BIBLICAL TRADITIONS

DEPARTMENT: THEOLOGY
CREDIT: 0.5
GRADE: 11
PREREQUISITE: Faith Foundations and Catholic Social Teaching (unless the student is a transfer).
ADDITIONAL INFORMATION:

This course introduces students to major themes of the Jewish and Christian Scriptures, equipping them with the necessary foundations for a lifetime of Biblical study, reading and prayer. Students will appreciate the oral and written tradition through which the Bible was developed; gain historical perspective for the placement of Biblical events and person; study the various types of literature contained in the Bible, and the contexts for various authors' work; reflect on how these major themes of Biblical tradition are present in their own life experience; and learn to use the Bible for study, personal enrichment, and prayer.

FAITH FILLED LIFE

DEPARTMENT: THEOLOGY
CREDIT: 0.5
GRADE: 12
PREREQUISITE: Faith Foundations, Catholic Social Teaching and Biblical Traditions (unless the student is a transfer).
ADDITIONAL INFORMATION:

This course is designed to assist students in facing the challenges of young adulthood so that they can shape a future that is hopeful, healthy and full. Topics include: identity, and autonomy, creativity, life-long learning, career, suffering and healing, sexuality, love, friendship and commitment. Senior students will consider the role of their religious faith in all of the lifestyle choices they will make.

SENIOR SERVICE PROJECT

DEPARTMENT: THEOLOGY
CREDIT: 0.5
GRADE: 12
PREREQUISITE: None
ADDITIONAL INFORMATION:

The Senior Service Project is a required one-half credit project completed during the senior year. It involves 25 hours of community service with a marginalized population in which the student must demonstrate leadership and service. The Senior Service Project is the culmination of the student's service work at Sion; building on the student's previous experiences, the project encourages each student to use her talents for the benefit of our community. Each student will work with a Senior Project Coordinator outside the classroom and she will submit all required coursework online.

THE CATHOLIC TRADITION: THE LIVING FAITH OF THE PRESENT

DEPARTMENT: THEOLOGY
CREDIT: 0.5
GRADE: 11,12
PREREQUISITE: None
ADDITIONAL INFORMATION: Junior, Senior elective

Why should one be a Catholic? What does it mean to be a Catholic Christian today? Compared to other world religions, and other Christian denominations, is Catholicism something essentially different? Why do you believe what you believe? In this class, we will examine the traditional articles of the Catholic faith in order to make them intelligible for us in the 21st Century. Our study, then, will enable us to see tradition not as the dead faith of the past, but as the living faith of the present in order to deal with the many difficult issues in our world today.

PEER MINISTRY

DEPARTMENT: THEOLOGY
CREDIT: 0.5
GRADE: 11
PREREQUISITE: None
ADDITIONAL INFORMATION: Junior elective

This course will educate, form and support students in a listening ministry of care. Students will learn to respond to the needs of others with a presence of compassion and a spirit of prayer. Students will develop skills which will strengthen their everyday relationships and prepare them to serve others in the real world.

DISCOVERING THE HOLY THROUGH THE ARTS

DEPARTMENT: THEOLOGY
CREDIT: 0.5
GRADE: 11, 12
PREREQUISITE: None
ADDITIONAL INFORMATION: Junior, Senior elective. Theology or Fine Art credit.

By exploring identity, nature, the complexities of relationships, community, and the creative processes associated with the visual as well as performing arts, students will come to identify and nurture a world view in which creation and all its diversity is a manifestation of the Holy. In this class students will discuss such questions as: What does it mean to be human, created in the image of God? What are our responses to suffering? What is it to be an individual? What responsibility do we have to community, the Divine, and ourselves?

INTRODUCTION TO PHILOSOPHY

DEPARTMENT: THEOLOGY/SOCIAL STUDIES

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: None

ADDITIONAL INFORMATION: Junior, Senior elective. Theology or Social Studies credit.

This one semester course is designed to give the student a basic introduction to the main questions of philosophy and its methods, along with a survey of the history of western philosophy. The basis from which these objectives spring is the novel, *Sophie's World*, first published in Norwegian in 1991 and translated/published in English in 1994. Time magazine described its English debut: First, think of a beginner's guide to philosophy, written by a schoolteacher...Next, imagine a fantasy novel—something like a modern day version of *Through the Looking Glass*... Newsweek described it as a comprehensive history of Western philosophy as recounted to a 14 year old Norwegian schoolgirl and went on to say ...the book will serve as a first rate introduction to anyone who never took an introductory philosophy course and a pleasant refresher for those who have and have forgotten most of it.

PRAYER AND WORSHIP

DEPARTMENT: THEOLOGY

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: None

ADDITIONAL INFORMATION: Junior, Senior elective only

With the teacher as a guide, the class will explore the prayer and worship styles of Christianity, Hinduism, Judaism, Buddhism and Islam. In addition we will examine the layout and design of individual places of worship and discover the relevance of the surroundings, whether interior or exterior, in reflecting the beliefs of the community. Guest speakers will be welcomed to our class and we will be received as guests in places of worship for our scheduled field trips.

WORLD RELIGIONS

DEPARTMENT: THEOLOGY

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: None

ADDITIONAL INFORMATION: Junior, Senior elective only

This course offers students an introduction to the major religious traditions - Christianity, Hinduism, Buddhism, Judaism, and Islam. Emphasis will be placed on developing an appreciation and respect for the worldviews of people who adhere to religious traditions different than our own as we explore the different answers these religions give to humanity's perennial questions such as: Are we by nature good or evil? Why suffering? How are we to act while living in this world? Students will also have the opportunity to research a religion of their own choice in more depth and present those findings to their classmates.

SCIENCE

BIOLOGY I, I H

DEPARTMENT: SCIENCE
CREDIT: 1.0
GRADE: 9
PREREQUISITE: None
ADDITIONAL INFORMATION:

Biology I is offered as a general survey class. The topics covered include the cell, genetics, evolution, zoology, botany, and ecology. Laboratory activities and experiments are an integral part of this class.

GENERAL BIOLOGY AND LAB ACCP

DEPARTMENT: SCIENCE
CREDIT: 1.0
GRADE: 11, 12
PREREQUISITE: Teacher approval based on math and science grades.
ADDITIONAL INFORMATION: College credit is awarded concurrently through Rockhurst University.

General Biology I can be taken by juniors and seniors for college credit through Rockhurst University. This class offers an in-depth look at the structures and functions of living organisms. Classroom lectures are enhanced by laboratory sessions. A cumulative GPA of 3.0 or better is required by Rockhurst University.

BIOETHICS, BIOETHICS H

DEPARTMENT: SCIENCE
CREDIT: 0.5
GRADE: 10
PREREQUISITE: None
ADDITIONAL INFORMATION:

Bioethics focuses on the aspects of biology that require proper judgement and decision-making that can affect the quality of human life. Some topics researched in the course will be: biomedical ethics, DNA technology (cloning, genetic engineering, genetic testing, etc.), euthanasia, the politics of science, and the social responsibility of science.

ENVIRONMENTAL SCIENCE, ENVIRONMENTAL SCIENCE H

DEPARTMENT: SCIENCE
CREDIT: 0.5
GRADE: 10
PREREQUISITE: None
ADDITIONAL INFORMATION:

Environmental science covers topics in human population growth and dynamics, biodiversity, carrying capacity and sustainability, succession and restoration, biogeochemical cycles, and environmental impact studies. The course will integrate bioethical issues related to the environment as part of the class; labs, article summaries and projects will be included.

CHEMISTRY I

DEPARTMENT: SCIENCE

CREDIT: 1.0

GRADE: 11

PREREQUISITE: Algebra II or higher

ADDITIONAL INFORMATION:

This course is a study of the forms and changes of matter. Problem-solving techniques are emphasized, as well as mastery of basic chemical principles. The course is designed to give students a foundation for college chemistry.

CHEMISTRY I H

DEPARTMENT: SCIENCE

CREDIT: 1.0

GRADE: 11

PREREQUISITE: Departmental Approval

ADDITIONAL INFORMATION:

In Chemistry I Honors, a wider range of topics is introduced, with an emphasis on mathematical problem-solving and analysis of experiment results. The pace is fast and students are expected to complete reading and problems as assigned. Homework is seldom collected for credit. Students are expected to understand the importance of keeping up with daily work.

CHEMISTRY II AP, ACCP

DEPARTMENT: SCIENCE

CREDIT: 1.0

GRADE: 12

PREREQUISITE:

ADDITIONAL INFORMATION: College credit is earned on the basis of the College Board exam score.

This is freshman-level college chemistry class plus laboratory that has above average expectations of the participants. The course moves quickly and students are expected to use their own initiative in studying and completing problems. Concepts covered in Chemistry I are covered in more detail, and some higher-level topics are introduced. Students are prepared for, and expected to take, the College Board Advanced Placement Exam for college credit at the end of the year. Strong performance in previous math and science courses is necessary.

FORENSIC SCIENCE

DEPARTMENT: SCIENCE

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: Chemistry I Honors, successful performance in math and science courses during the junior year, teacher approval. CO-REQUISITE: PRE-CALCULUS OR HIGHER.

ADDITIONAL INFORMATION:

This one semester course will explore the science of criminology drawing upon students' knowledge from prior science courses. Students will learn to use laboratory analysis techniques based on those used by real forensics experts. Simulated crime scenes will be investigated as students learn to collect evidence and develop their observation skills and deductive reasoning.

PHYSICS MECHANICS H

DEPARTMENT: SCIENCE

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: Completion of Algebra II

ADDITIONAL INFORMATION:

This semester course is a study of motion and the forces that cause motion. The emphasis is on problem-solving and mathematical analysis of the natural world.

PHYSICS WAVES & ELECTRICITY H

DEPARTMENT: SCIENCE

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: Completion of Algebra II

ADDITIONAL INFORMATION:

This semester course is a study of waves, electricity, and magnetism. The emphasis is on problem-solving and mathematical analysis of the natural world.

ANATOMY AND PHYSIOLOGY I H

DEPARTMENT: SCIENCE

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: Biology I and Chemistry I. Chemistry may be taken at the same time.

ADDITIONAL INFORMATION:

This course is an introductory course in anatomy and physiology. It is tailored to meet the needs of students who are planning on pursuing careers in the allied health, medical and biological areas. Students will use the systems approach in this class, studying the level of organization in each of the body systems, the interaction between the different systems and the functioning of different homeostatic mechanisms that regulate each system. Clinical applications are included to further the understanding of the concepts.

ANATOMY AND PHYSIOLOGY II H

DEPARTMENT: SCIENCE

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: Biology I and Chemistry I. Chemistry may be taken at the same time. Anatomy and Physiology I H.

ADDITIONAL INFORMATION:

This course is an introductory course in anatomy and physiology. It is tailored to meet the needs of students who are planning on pursuing careers in the allied health, medical and biological areas. Students will use the systems approach in this class, studying the level of organization in each of the body systems, the interaction between the different systems and the functioning of different homeostatic mechanisms that regulate each system. Clinical applications are included to further the understanding of the concepts.

SOCIAL STUDIES

AMERICAN GOVERNMENT

DEPARTMENT: SOCIAL STUDIES

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: None

ADDITIONAL INFORMATION:

This course is an introduction to national, state and local government, with an emphasis on the constitutional underpinnings of the federal system. Using debates, simulations, presentations, discussions, and current news and political data analysis, students examine basic constitutional principles, the legislative process, executive power, the judicial system, political parties and elections. Students will also actively engage in a chosen civic activity and pass a U.S. Constitution exam.

ART HISTORY

DEPARTMENT: SOCIAL STUDIES/FINE ARTS

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: Can be taken for either Fine Arts or Social Studies credit.

ADDITIONAL INFORMATION:

Images of the built environment, sculpture, jewelry, clothing, drawings, and paintings and everyday objects from a number of cultures will be analyzed. This semester course surveys the wide range of human expression from prehistoric through contemporary times.

CONTEMPORARY GLOBAL ISSUES

DEPARTMENT: SOCIAL STUDIES

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: None

ADDITIONAL INFORMATION: Contemporary Global Issues alternates with Women's History and will not be offered in 2012-13; Women's History will return in 2012-13.

This is a one-semester course introducing students to a range of issues facing the international community today, including issues relating to globalization, human rights, development, peace and security, and the environment. Students will study the issues through case-studies and readings, discussion, debates and role-playing. There will be an emphasis on examining the history that underlies each issue and gaining an appreciation for their complexity.

ECONOMICS

DEPARTMENT: SOCIAL STUDIES

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: None

ADDITIONAL INFORMATION:

This course examines the ways in which individuals, households, businesses and the government participate in the operation of the US and global economy. The course introduces basic economic concepts that will help students make knowledgeable choices in both the marketplace and the voting booth. Students study the concepts of scarcity, supply and demand, markets, business firms, competition, labor, monopolies, and government policy. Through a variety of exercises, students analyze contemporary economic problems such as social welfare, competition in the market place, poverty and profit.

EUROPEAN HISTORY AP

DEPARTMENT: SOCIAL STUDIES

CREDIT: 1.0

GRADE: 12

PREREQUISITE: Department Approval

ADDITIONAL INFORMATION: College credit is earned on the basis of the College Board exam score.

This college level history class will address the cultural, diplomatic, economic, intellectual, political and social history of Europe. On the AP Exam, students will be expected to demonstrate a knowledge of basic chronology and of major events and trends in Europe from approximately 1450 to the present, that is from the High Renaissance to the very recent past. Students will also need to have some familiarity with those aspects of the late medieval period that have an impact on post-1450 events. Students selected for this stimulating and demanding course should be both academically qualified and highly motivated since much reading, writing and research will be required. The goals of this course are to develop (a) an understanding of some of the principal themes in modern European history, (b) an ability to analyze historical evidence and (c) an ability to analyze and to express historical understanding in writing.

FOUNDATIONS IN PERSONAL FINANCE

DEPARTMENT:

CREDIT: 0.1

GRADE: 12

PREREQUISITE: NONE

ADDITIONAL INFORMATION:

In this one semester course, students will learn the basic principles of financial literacy. Topics include: Savings and Investing, Credit and Debt, Financial Responsibility and Money Management/Budgeting, Insurance, Careers and Employment Taxes, and Real Estate and Mortgages. Unless you plan to live at home forever, this course is for you!

HOLOCAUST STUDIES

DEPARTMENT: SOCIAL STUDIES

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: None

ADDITIONAL INFORMATION:

This course will survey Anti-Semitism from 1933 to 1945. Publications, art, audio-visuals, the Internet, and speakers will be the primary teaching tools. The meaning of the Holocaust to our contemporary world will be explored. Some issues studied will include, but not be limited to: democratic institutions and values are not automatically sustained, but need to be appreciated, nurtured, and protected; silence and indifference to the suffering of others, or to the infringement of civil rights in any society, can - however unintentionally - serve to perpetuate the problems; and the Holocaust was not an accident in history - it occurred because individuals, organizations, and governments made choices which not only legalized discrimination, but which allowed prejudice, hatred, and ultimately, mass murder to occur.

INTRODUCTION TO PHILOSOPHY

DEPARTMENT: SOCIAL STUDIES/THEOLOGY

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: None

ADDITIONAL INFORMATION: Can be taken for either Social Studies credit or Theology credit.

This one semester course is designed to give the student a basic introduction to the main questions of philosophy and its methods, along with a survey of the history of western philosophy. The basis from which these objectives spring is the novel, *Sophie's World*, first published in Norwegian in 1991 and translated/published in English in 1994. Time magazine described its English debut: First, think of a beginner's guide to philosophy, written by a schoolteacher...Next, imagine a fantasy novel—something like a modern day version of *Through the Looking Glass*... Newsweek described it as a comprehensive history of Western philosophy as recounted to a 14 year old Norwegian schoolgirl and went on to say...the book will serve as a first rate introduction to anyone who never took an introductory philosophy course and a pleasant refresher for those who have and have forgotten most of it.

MODERN US HISTORY

DEPARTMENT: SOCIAL STUDIES

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: US History

ADDITIONAL INFORMATION:

If you ever wanted to study recent US history, then this is the course for you! If any of the following topics interest you: Hiroshima, Civil Rights Movement, Vietnam War, the 1960's, Women's Movement, Gulf War, Election of 2000, and current events – then this is the course for you! We will cover some of the most important events in American history that have shaped the world we live in today and America of the future. This semester long class begins with a study of the Cold War and takes us all the way up to current day. If you ever felt disconnected from history and wondered how history is relevant today, you will walk away from this course with a deeper connection to history and what's happening in the world today.

PSYCHOLOGY I

DEPARTMENT: SOCIAL STUDIES

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: None

ADDITIONAL INFORMATION:

Psychology I introduces students to an overview of the science of psychology. The course includes a history of the field, major contributors to the field and their theories, and an introduction to the fundamental elements of psychology. Emphasis is placed on methodology and critical thinking. In addition, the students are given the opportunity to participate in activities in class designed to illustrate psychological concepts. Topics also include sensation and perception, states of consciousness, learning, memory, cognition and language, intelligence, and life span development.

PSYCHOLOGY II ACCP

DEPARTMENT: SOCIAL STUDIES

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: Psychology I. 3.0 cumulative GPA.

ADDITIONAL INFORMATION: Credit is earned concurrently through Rockhurst University; students must take both Psychology I and Psychology II to earn college credit.

Psychology II introduces the scientific study of human behavior through application and integrates the methods and traditions of the science through application. Emphasis is on student research of topics of psychology. These topics include personality, stress and health, abnormal behavior, therapies, social psychology, and measurement and statistical methods.

SOCIOLOGY

DEPARTMENT: SOCIAL STUDIES

CREDIT: 0.5

GRADE: 11, 12

PREREQUISITE: None

ADDITIONAL INFORMATION: Economics is offered in alternate years with Sociology and will be offered again in 2012-13. Sociology will not be offered in 2012-2013.

This course is an introductory course in sociology. Sociology is the scientific study of human societies. It is the study of human beings as social beings and the interaction of individuals in social groups. Sociologists are concerned with how social factors such as sex, race, class, and age affect the ways people think and act in particular situations and how they influence people's life chances. Possible topics covered in this course may be the research process, types of societies, culture and human nature, socialization, social groups, deviance and social control, social class, global inequality, sex, gender, and sexual orientation, race and ethnicity, aging and life course, economy and work, politics and government, families and intimate relationships, and education.

US HISTORY

DEPARTMENT: SOCIAL STUDIES

CREDIT: 1.0

GRADE: 11

PREREQUISITE: None

ADDITIONAL INFORMATION:

This survey course helps students answer the question: How did the America we know today come to be? It travels from the early peoples of the Americas and colonization through the present day. Students will discuss, debate, reason and write, and use technology as needed, to look at the political, cultural, economic and social history of the nation.

US HISTORY AP

DEPARTMENT: SOCIAL STUDIES

CREDIT: 1.0

GRADE: 11

PREREQUISITE: None

ADDITIONAL INFORMATION: College credit is earned on the basis of the College Board exam score.

U.S. History AP is a demanding introduction to American History and culture which assumes a high level of interest and competence. This course is equivalent to a first-year college course. Students should expect that the workload will be more than most regular high school history courses. The AP course stresses the use of analytical thinking and intensive writing and reading skills (often requiring independent reading assignments), while exploring the political and social history of the United States. The course is one year in length and covers American history from early colonization through present day.

WOMEN'S HISTORY

DEPARTMENT: SOCIAL STUDIES

CREDIT: 0.5

GRADE: 11,12

PREREQUISITE: None

ADDITIONAL INFORMATION:

This course will explore American history through women's experiences. Therefore, the course will move topically and chronologically through history, examining the broad themes that have shaped women's lives from the colonial period to present day. The goals are to raise questions as to why women are missing from many of our textbooks; to analyze and understand the woman's experience; to identify the efforts, achievements and struggles women have faced based on differences in gender, race, and class; and to examine their responses to cultural, political and social influences throughout American history.

INTRO TO WORLD HISTORY & GEOGRAPHY

DEPARTMENT: SOCIAL STUDIES

CREDIT: 0.5

GRADE: 9

PREREQUISITE: None

ADDITIONAL INFORMATION:

This one semester course provides an overview of the geographical areas of the world. The scope of study will include political and social geography. It will introduce students to the relationship of geography and history and introduce students to early civilizations in Eurasia and North Africa in preparation for World History study sophomore year.

WORLD HISTORY

DEPARTMENT: SOCIAL STUDIES

CREDIT: 1.0

GRADE: 10

PREREQUISITE: None

ADDITIONAL INFORMATION:

This survey course looks at key civilizations, trends and effects of contact and isolation in global history from the earliest civilizations through the mid-20th century. Students will discuss, debate, reason and write, and use technology as needed, to look at the political, cultural, economic and social aspects of the human experience. Emphasis is given to the role geography plays in world history and to those events and trends which directly or indirectly influence modern times.

WORLD HISTORY AP

DEPARTMENT: SOCIAL STUDIES

CREDIT: 1.0

GRADE: 10

PREREQUISITE: Department recommendation and application essay.

ADDITIONAL INFORMATION: College credit is earned on the basis of the College Board exam score.

AP World History is a demanding introduction to World History and culture which assumes a high level of interest and competence. This course is equivalent to a first-year college course. Students should expect that the workload will be more than most regular high school history courses. The purpose of the AP World History course is to develop greater understanding of the evolution of global processes and contacts in different types of human societies from their historical beginnings through the 20th century. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in global frameworks and their causes and consequences, as well as comparisons among major societies. It emphasizes relevant factual knowledge, leading interpretive issues, and skills in analyzing types of historical evidence.

WORLD LANGUAGES

FRENCH I, I H

DEPARTMENT: WORLD LANGUAGES
CREDIT: 1.0
GRADE: N/A
PREREQUISITE: None
ADDITIONAL INFORMATION:

This is an introductory course. It stresses the four skills of speaking, comprehension, reading and writing. Various aspects of culture are presented to develop an awareness of what life is like in a French speaking country.

FRENCH II, II H

DEPARTMENT: WORLD LANGUAGES
CREDIT: 1.0
GRADE: N/A
PREREQUISITE: French I or equivalent.
ADDITIONAL INFORMATION:

This is an intermediate level course. Continued emphasis is placed on the four skills at a more advanced level.

FRENCH III

DEPARTMENT: WORLD LANGUAGES
CREDIT: 1.0
GRADE: N/A
PREREQUISITE: French I and II and teacher approval.
ADDITIONAL INFORMATION:

This is an advanced course which includes a review of the basic grammar structures and presents more advanced grammatical forms. The textbook is supplemented by a reader which helps develop better conversational and writing skills through an increased study of vocabulary.

FRENCH III ACCP

DEPARTMENT: WORLD LANGUAGES
CREDIT: 1.0
GRADE: N/A
PREREQUISITE: French II Honors or teacher approval. Cumulative GPA of 3.0 to take the class for ACCP credit.
ADDITIONAL INFORMATION: College credit is awarded concurrently through Rockhurst University.

This course is designed to develop the skills students need for oral and written communication. Students are introduced to broader aspects of French culture and develop oral and written fluency. Students co-enrolled at Rockhurst University earn 8 hours of college credit.

FRENCH IV ACCP

DEPARTMENT: WORLD LANGUAGES

CREDIT: 1.0

GRADE: N/A

PREREQUISITE: French I, II, III. Cumulative GPA of 3.0 to take the class for ACCP credit.

ADDITIONAL INFORMATION: College credit is awarded concurrently through Rockhurst University.

In French IV ACCP, students will finish studying French grammar concepts. They will engage in longer conversations, continue to sharpen their listening skills, and read and interpret more challenging texts. They will also gain some knowledge of French history, art and social concerns. They will be exposed to other cultures, such as those of Senegal and Quebec through the use of videos. Students co-enrolled at Rockhurst University earn 8 hours of college credit.

FRENCH IV AP

DEPARTMENT: WORLD LANGUAGES

CREDIT: 1.0

GRADE: N/A

PREREQUISITE: French III ACCP; departmental recommendation.

ADDITIONAL INFORMATION: College credit is earned on the basis of the College Board exam score.

This is a college level advanced course. Equal emphasis is placed on the four skills of speaking, listening, reading and writing. Materials will include recordings, newspapers, magazines, and modern literature passages.

FRENCH V ACCP or HONORS

DEPARTMENT: WORLD LANGUAGES

CREDIT: 1.0

GRADE: 12

PREREQUISITE: French IV.

ADDITIONAL INFORMATION: College credit is awarded concurrently through Rockhurst University. (Only if there is sufficient enrollment.)

This class will provide students a thorough review of French grammar. Grammatical constructions will be examined as they appear in a variety of readings written by authors of the Francophone world. Students will have a chance to react both orally and in writing. The class will be conducted in French. A set of cassettes will help sharpen the students' pronunciation, and develop comprehension of the language spoken at normal speed.

SPANISH I, I H

DEPARTMENT: WORLD LANGUAGES

CREDIT: 1.0

GRADE: N/A

PREREQUISITE: None

ADDITIONAL INFORMATION:

Students will be introduced to the basic structures of Spanish and begin to acquire the four language skills of understanding, speaking, reading and writing. An awareness of and appreciation for Hispanic cultures will be developed through short articles and the video, which accompanies the text.

SPANISH II, II H

DEPARTMENT: WORLD LANGUAGES

CREDIT: 1.0

GRADE: N/A

PREREQUISITE: Spanish I or equivalent.

ADDITIONAL INFORMATION:

Students continue to improve their communication skills and expand their vocabulary and understanding of life in Hispanic countries.

SPANISH III

DEPARTMENT: WORLD LANGUAGES

CREDIT: 1.0

GRADE: N/A

PREREQUISITE: Spanish I and II. Departmental approval.

ADDITIONAL INFORMATION:

Advanced level language course which includes a review of grammatical structures and introduces more advanced grammar patterns. Short stories are utilized to improve reading and writing skills.

SPANISH III ACCP

DEPARTMENT: WORLD LANGUAGES

CREDIT: 1.0

GRADE: 10, 11, 12

PREREQUISITE: Spanish II Honors or teacher approval. Cumulative GPA of 3.0 to take this class for ACCP credit.

ADDITIONAL INFORMATION: College credit is awarded concurrently through Rockhurst University.

In this course all aspects of Spanish necessary for communication are taught: vocabulary, grammar, structure, and spelling. Extensive practice using Spanish is provided and students develop oral proficiency, reading, and writing skills. Students co-enrolled at Rockhurst University earn eight hours of college credit.

SPANISH IV ACCP

DEPARTMENT: WORLD LANGUAGES

CREDIT: 1.0

GRADE: N/A

PREREQUISITE: Spanish I, II and III. Cumulative GPA of 3.0 to take this class for ACCP credit.

ADDITIONAL INFORMATION: College credit is awarded concurrently through Rockhurst University.

This course covers all aspects of Spanish necessary for communication: usage, morphology, phonology, vocabulary and spelling. Intensive practice is provided in comprehension, speaking and reading as well as grammar review. Students co-enrolled at Rockhurst University earn six hours of college credit.

SPANISH IV AP

DEPARTMENT: WORLD LANGUAGES

CREDIT: 1.0

GRADE: N/A

PREREQUISITE: Spanish III ACCP

ADDITIONAL INFORMATION: College credit is earned on the basis of the College Board exam score.

As a college level advanced course, achieving proficiency in all forms of communication is the main priority. Materials will include audio and video recordings, advanced reading selections from literature, newspapers, and magazines. Students will be expected to develop original and well-organized compositions and oral presentations.

SPANISH IV

DEPARTMENT: WORLD LANGUAGES

CREDIT: 1.0

GRADE: 11 or 12

PREREQUISITE: Spanish III

ADDITIONAL INFORMATION:

This course provides an in depth review of previously learned grammar with an emphasis on improving oral communication as well as reading and writing skills in Spanish. Students will use textbook for interactive exercises and will participate in role-playing activities. Required coursework will include essays in Spanish, vocabulary building exercises, assigned readings for class discussions and chapter tests as well as other work as assigned.

MANDARIN CHINESE

DEPARTMENT: WORLD LANGUAGES

CREDIT: 1.0

GRADE: 11 or 12

PREREQUISITE: None

ADDITIONAL INFORMATION:

Chinese (Mandarin) I emphasizes correct pronunciation, aural comprehension and simple speaking skills. Students learn to recognize a number of simplified Chinese characters. This course is taught using authentic Chinese materials via distance learning (video conferencing &/or SKYPE) technology through the Confucius Center at the University of Kansas.