



Sacred Heart

A C A D E M Y

At Ursuline Campus

PROGRAM OF STUDIES 2011-2012

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WWW.SACREDHEARTSCHOOLS.ORG

A MEMBER OF SACRED HEART SCHOOLS AT URSULINE CAMPUS, SPONSORED BY THE URSULINE SISTERS OF LOUISVILLE

ARTS: PERFORMING

Chorus, A Cappella, and Performance Ensemble satisfy the required ½ choral credit. Note that some courses require an audition and/or music reading ability.

Chorus 1189 ½ Credit
Grades 9, 10, 11, 12

This course is designed for students to learn voice technique, diction, basic music theory and sight singing. Repertory includes two- and three-part harmonies of various styles of music. Participation in one concert is required and considered an exam.

A Cappella Choir 1239/1249 ½ Credit
Grades 9, 10, 11, 12
Prerequisite: Audition

This course is designed for students who love to sing and want to develop their choral music skills. This class meets once a week on Tuesdays after school until 4:00 pm. Absences from rehearsals, including those outside class time, and performances affect grade. Scheduled concerts are mandatory. The ½ credit is earned after a complete year of participation.

Performance Ensemble 1219 ½ Credit
Grades 9, 10, 11, 12
Prerequisite: Audition on basic singing and dancing

This course is designed for students who enjoy singing and dancing to a variety of Broadway and Contemporary music. The class meets during the school day. Absences from class, rehearsals outside of class, and performances will affect the grade. Scheduled concerts are mandatory.

Musical Theatre Seminar 1199/1209 ½ Credit
Grades 9, 10, 11, 12
Prerequisite: Audition on basic singing and dancing
Co-requisite: Participation in SHA/SHSA Drama and/or musical theatre

This course is designed for students who wish to pursue an intense study of musical theatre. The course offers a varied and intensive course of study that refines the student's voice and movement technique while exploring the nuances of character development. The core curriculum is divided into three areas of study: Acting, Music and Dance. Units of Study throughout the year also explore Technical Theatre, Theatre History and Auditioning Skills. The class meets during one half of TEAM. Some required rehearsals are scheduled outside the school day and during the other half of TEAM. Absences from rehearsals including those outside of class time and participation in performances will affect the grade. The ½ credit is earned after a complete year of participation.

Madrigals 1269/1279 ½ Credit
Grades 10, 11, 12
Prerequisites: Audition
Co-requisite: A Cappella Choir or Performance Ensemble

This course is for gifted choral singers and utilizes the stylistic techniques of the Renaissance period. Each member is required to provide an approved costume appropriate to the time period. The class meets twice a week after school for one hour. This is a graded class and takes precedence over non-graded activities. Absences from rehearsals and performances affect grade. Scheduled concerts are mandatory. The ½ credit is earned after a complete year of participation.

Piano 1389 ½ Credit
Grades 9, 10, 11, 12

This course is for students who wish to learn basic piano concepts, basic music theory, and how to read music. Students will use a computer-based piano lab that allows them to work at their own pace with instructor guidance. Students are required to complete a performance event at the end of the semester.

Introduction to Acting 1179 ½ Credit
Grades 9, 10, 11, 12

This course is designed to introduce students to the various aspects of the study of acting. It will expose students to the fundamentals an actor must know in order to continue in the discipline. The techniques of the stage (voice, diction, blocking, vocabulary, characterization, and auditioning) are explored.

Introduction to Dance 1329 ½ Credit
Grades 9, 10, 11, 12

This course is designed for students to learn basic ballet fundamentals as well as various types of dance including contemporary dance techniques. These concepts are put into practice through creating new dances.

Private Music Lessons 1349 up to ¼ Credit
Grades 9, 10, 11, 12

For an additional fee, private and group music lessons are available after school on campus at the Sacred Heart School for the Arts. Students receive 16 one-half or hour lessons per semester. Lessons are available in piano, voice, guitar, woodwinds, brass, strings, harp, theory, composition, and electronic keyboard. Instruction is offered to beginners through advanced levels. The amount of credit earned depends on number of hours spent in lessons; generally up to ¼ credits per year can be earned. It is the responsibility of the student to submit the proper documentation from SHSA in order to earn credits through Sacred Heart.

ARTS: VISUAL

Art I 1009 ½ Credit
Grades 9, 10, 11, 12

This beginning art course explores the elements and principles of art and design. Students learn the foundations of visual arts through a variety of mediums. The class is required first semester of freshman year for students considering the IB art program. It is recommended for students considering computer art, pottery and photographic studies.

Art II 1019 ½ Credit
Grades 9, 10, 11, 12
Prerequisites: Art Elements

This beginning drawing course explores value, texture, color and space through the drawing of objects and places in a variety of mediums. This course is required second semester of freshman year for students considering the IB art program. Research and writing are included in the course.

Art III 1029 ½ Credit
Grades 10, 11, 12
Prerequisites: Drawing I

This intermediate drawing course explores value, texture, color and space through the drawing of the human form. Students learn to draw portraits and figure studies in a variety of mediums. The course is required first semester of sophomore year for students considering the IB art program. Research and writing are included in this course.

Painting 1039 ½ Credit
Grades 10, 11, 12
Prerequisites: Drawing II

This beginning painting course explores various paint media in the journey toward self-expression. This course is an option for second-semester sophomores considering the IB art program, as well as juniors and seniors who meet the prerequisites.

Jewelry and Accessory Design 1049 ½ Credit
Grade 11, 12

This course is an introduction to the design and construction of jewelry and fashion accessories. Students learn beading, wirework, stone/clay carving, and hat, bag and scarf design. Students examine trend forecasting, product design and fabrication of various accessory pieces.

Pottery I 1139 ½ Credit
Grade 11, 12

This course is an introduction to the clay medium using the building techniques of pinch, coil, and slab. Emphasis is given to creative design and technical skill. There is limited exploration with the potter's wheel.

Pottery II: Advanced Hand-Building 1149 ½ Credit
Grade 11, 12
Prerequisite: Pottery I

This pottery course explores more advanced hand-building techniques to create more complex clay forms. Students create sculptural and functional pieces using a variety of clay bodies and glaze choices. Three-dimensional composition, technical proficiency, craftsmanship and glaze choice/application are emphasized.

Pottery III: The Potter's Wheel 1119 ½ Credit
Grade 11, 12
Prerequisite: Pottery I

This course is a study of the techniques and clay forms that are created on the potter's wheel. Projects are mostly functional vessels or dinnerware pieces. Emphasis is placed on technique and craftsmanship. Later projects explore the altering of wheel-thrown forms. A variety of clay bodies and glazes is used.

3-D Art 1129 ½ Credit
Grades 11, 12, and second-semester sophomore candidates for the IB art program
Prerequisites: Drawing II for IB art candidates

This three-dimensional art course explores both additive and subtractive sculptural methods in a variety of mediums such as stone carving, paper mache, mixed media, and wire. This course is an option for second-semester sophomores considering the IB art program.

Photography I 1159 ½ Credit
Grades 11, 12

This course explores black and white photography as an art form. It covers how to use an approved manual 35mm camera, which must be provided by the student. Students develop film and make enlargements using basic darkroom techniques.

Photography II 1169 ½ Credit
Grades 11, 12
Prerequisites: Photography I and teacher approval

This course continues the study of black and white photography. Further exploration with the camera, creative darkroom techniques and the use of special effects are emphasized. Students are required to provide their own approved manual 35mm camera.

IB Art I 1080/1090 1 Credit
Grade 11

Prerequisites: Art Elements, Drawing I, II and Painting, 2-D Art or 3-D Art and teacher approval and Admittance to the IB Program.

The main focus of this course is studio work based on imaginative expression, purposeful exploration, meaning and function, formal qualities, and technical skills. It also requires an investigation workbook that includes independent, contextual, critical, and visual research. Students complete IB assessments and participate in IB ART II their senior year.

IB Art II 1100/1110 1 Credit
Grade 12
Prerequisite: IB Art I

This course is a continuation of IB Art I. It requires evidence of 240 hours of work. The ideas for the art works are created exclusively by the student. Each student is required to complete higher-level IB assessments that consist of an art show and interview with an outside examiner, an investigation workbook, and an artist's statement.

BUSINESS

Business Law and Ethics 1423 ½ Credit
Grades 11, 12

This course examines legal obligations and rights, contract law, and ethical issues in business. Students study the legal issues affecting businesses as well as the legal protection offered to consumers. Case studies and current news stories will be used to focus on various ethical issues affecting businesses.

Marketing and Advertising 1433 ½ Credit
Grades 11, 12

Students examine how businesses develop target markets and the ways that advertising is geared to specific groups, such as teenagers and young adults. This course is a study of basic principles of marketing and advertising using real-world examples and case studies. Students design their own products and create their own advertising plans as a semester-long class project.

Personal Finance 1444 ½ Credit
Grades 11, 12

Students learn personal financial survival skills for high school, college and beyond. Topics include purchasing a car, understanding insurance, managing and balancing a checking account, using credit cards, recognizing scams and understanding consumer protection laws. Students learn tax terminology and how to prepare simple income tax forms, how to establish a good credit rating, manage a budget and how to save and invest. This course will help students avoid credit card traps and poor financial choices.

Accounting 1402/1412 1 Credit
Grades 11, 12

This honors-level course covers the accounting cycle and emphasizes the basic principles of accounting. The Accounting equation and how it affects debits and credits are stressed. Students work with general and special journals, general and special ledgers, accounts payables, accounts receivables, and payroll fundamentals. Students complete two financial simulations that include keeping a set of books for a company through the accounting cycle. This course gives students an understanding of a core subject area required in any college business or MBA degree.

Economics
1422 ½ Credit
Grades 11, 12

This honors-level course covers basic economic theory. Students study economic systems, macroeconomics, microeconomics, supply, demand, price, and opportunity cost. Students apply these concepts by studying the economic situations taking place in current markets. This course provides students with an understanding of a core subject area required in any college business or MBA degree.

Office Practice
1479/1489 ½ Credit
Prerequisite: Formal Application and Principal Approval

Office Practice allows students the opportunity to work directly as assistants to the school's office staff. Students must display effective communication skills, a positive attitude and a professional personal appearance. Students meet and greet visitors, use office equipment, and assist in preparations for specific school events.

CONSUMER AND FAMILY SCIENCE

Community, Character and Leadership (CCL)
1619 ½ Credit
Grade 9

This course is designed to build character and leadership traits within the students, and to build community. This class explores 18 character traits which provide students with the necessary skills to be successful in life.

Child Development I
1613 ½ Credit
Grades 11, 12

This course introduces students to parenting and child development. The class explores the prenatal development of the child, the birthing process, and the growth of the child to the toddler stage.

Child Development II
1614 ½ Credit
Grades 11, 12

This course explores the physical, mental, emotional, social and moral development of the child from the toddler stage to age 12. The course is for students interested in pursuing a career in early childhood or elementary education or other child-care related fields.

Nutritional Science
1623 ½ Credit
Grades 11, 12

This course is a study of the nutrients needed by the human body and the sources of those nutrients. The content includes recognizing valid nutritional information, meal planning, weight control, special dietary needs, nutritional labeling, the process of converting food to energy, and the relationship between exercise and diet.

Women's Studies
1633 ½ Credit
Grades 11, 12

This course deals with the young woman's concerns and interests as she becomes an adult. Topics include leaving home for college, successful independent living, wellness and barriers to wellness. Other topics include clothing care and repair, home finance, budgeting, alcohol, tobacco, and other risky behaviors, spirituality, stress reduction, maintaining life-long health, and forming healthy relationships.

Marriage and Family
1643 ½ Credit
Grade 12

This interactive course guides students to develop an understanding of self and others, to evaluate dating relationships, to acquire relationship skills essential for individual and family well being, and to develop realistic expectations and roles in relationships.

DESIGN, TECHNOLOGY, AND MEDIA

Computer Applications
1413 ½ Credit
Grade 10

Students learn to use Microsoft Office 2007 (Word, Excel, and PowerPoint). Projects include documents with graphics, resumes, MLA research papers, visual presentations with animation and automated slide shows. Students can expect to improve skills in keyboarding and general computer operation as well as gain confidence and independence in completing original projects. Awareness of internet safety issues, such as privacy, sharing information online, cyber relationships, and identity theft are introduced using the iSAFE program. A portfolio containing samples of student work is developed.

Survey of Multimedia
1503 ½ Credit
Grades 11, 12

This course introduces graphic and drawing software, cartoon animation, morphing and photo techniques. Students use professional web-development software to design web pages. This course satisfies a fine arts requirement. A portfolio is developed.

Desktop Publishing
1513 ½ Credit
Grades 11, 12

This course uses desktop publishing and graphical software for the creation of the following products: logo, menu, layout for periodicals, catalog advertisement. This course satisfies a fine arts requirement. A portfolio is developed.

Television Production
1542 ½ Credit
Grades 11, 12

This course develops visual composition, communications and broadcast journalism skills. Using digital cameras, editing software and the school's closed-circuit television system, students produce the WSHA news program. A portfolio is developed.

Advanced Video Studies
1552 ½ Credit
Grades 11, 12
Prerequisites: Television Production (1542) and teacher approval

This course utilizes advanced techniques in composition, camera use, audio, lighting and editing for project development. Digital video cameras and industry-standard software are used to create special video projects. A portfolio is developed.

Visual Communications Design (ACES)
1521 ½ Credit
Grades 11, 12
Prerequisites: Survey of Multimedia or Desktop Publishing

This course is an advanced digital design class. Using both PC and Mac formats, students use industry-standard 2-D, 3-D, video editing and special effects software to develop a variety of projects. Areas covered are composition, landscape and object animation; digital photography and photo layering; digital drawing and painting; digital video editing and special effects. A portfolio is developed.

ENGLISH

All required courses in English include summer reading, which is tested in the first quarter.

English I
1702/1712; 1713/1714; 1715/1716; 1717/1718
1 Credit
Grade 9

This course integrates a chronological survey of American literature with the fundamentals of reading, composition, grammar, research, vocabulary, and speaking skills. Composition instruction emphasizes mechanics, organization, unity, voice, and analysis. Critical thinking skills are developed through the reading of a variety of genres. Students read one Shakespeare play and supplementary works from an approved list.

English II
1722/1732; 1733/1734; 1735/1736; 1737/1738
Grade 10 1 Credit

This course integrates a chronological survey of British literature with the fundamentals of reading, composition, grammar, research, vocabulary and speaking skills. Emphasis in composition is on the writing of unified, coherent essays. A more in-depth analysis of literature is emphasized as well. Students read one Shakespeare play and supplementary works from an approved list.

English III
1752/1762; 1763/1764; 1765/1766
Grade 11 1 Credit

This course integrates the chronological study of world literature, from classical times to the modern era, with a refined study of literary analysis, composition, research methods, vocabulary usage, and oral expression. Composition instruction emphasizes writing unified, coherent compositions for a variety of purposes and audiences. The course includes PSAT, SAT and ACT preparation. Students read one Shakespeare play and supplementary works from an approved list.

IB English I
1740/1750 1 Credit
Grade 11
Prerequisites: Honors English II

This is the first of a two-year course providing an intensive, broad study of world literature with an emphasis on 19th and 20th century works. Through the thematic organization of this course, students study literary genres, styles and narrative techniques in depth, noting similar and unique approaches to expressing human concerns across cultures. The course challenges the student's analytical and creative capabilities and requires both internal and external assessments.

English IV
1792/1802; 1803/1804; 1805/1806
Grade 12 1 Credit

This course integrates the chronological survey of world literature, from the Renaissance to contemporary times, with a refined study of literary analysis, composition, research methods, vocabulary usage, literary devices, and oral expression. A major emphasis in composition is on the various methods of exposition and the writing of a required research paper. Students read one Shakespeare play and supplementary works from an approved list.

AP English
1890/1900 1 Credit
Grade 12
Prerequisites: Minimum B average in Honors English III and teacher approval

This course is designed for the student who wants a challenging curriculum and the opportunity to earn college credit through the Advanced Placement Program. Texts are drawn from world literature and contemporary writing. Emphasis is on college-level reading and writing, with substantial emphasis on critical thinking and analytical writing skills. A research paper is required. Students are required to take the AP Literature and Composition exam. Additionally, college credit through the Bellarmine University ACES dual-credit program may be earned provided certain academic qualifications are met.

IB English II
1770/1780 1 Credit
Grade 12
Prerequisite: IB English I

This course is the second part of the two-year IB English course. The first semester is an in-depth study of four genres of literature: poetry, drama, novel and autobiography. The second semester is an in-depth study of one genre chosen by the instructor. Students are required to take the higher-level IB English exams and complete both internal and external assessments. Additionally, college credit through the Bellarmine University ACES dual-credit program may be earned provided certain academic qualifications are met.

Journalism/Yearbook
1812/1822 Yearbook I 1 Credit
1832/1842 Yearbook II 1 Credit
Grades 11, 12
Prerequisites: Formal application and teacher approval

This class focuses on basic journalistic rules, vocabulary, organization, layout design, copy and headline writing as they relate to yearbook production. Students are responsible for taking photographs of school activities and making those photos tell the story of the school year in *The Angeline*.

Journalism/Newspaper
1852/1862 Newspaper I 1 Credit
1872/1882 Newspaper II 1 Credit
Grades 11, 12
Prerequisites: Formal application and teacher approval

This course focuses on the journalistic principles of professional news writing. Students learn the ethics of journalism, copy preparation, headline and caption writing, and layout and design skills. Students learn to use *InDesign* software, a digital camera and a scanner. After a comprehensive study of journalistic standards and styles, students continue to practice and improve their journalistic skills by writing, designing and publishing the school newspaper, *The Rune*.

Public Speaking
1913 ½ Credit
Grades 11, 12

This course is designed to develop the student's ability to speak in public with poise, conviction, and coherence. The subject matter deals with all aspects of public speaking including discerning the purpose, analyzing the audience, writing the speech, and making the presentation. Students will deliver informative, persuasive, demonstration, and special occasion speeches.

Film Studies
1933 ½ Credit
Grades 11, 12

This course is a study of American films that have helped shape American culture. Viewing select films from the 1920's to the present, students examine the historical events of each decade and their influence on films created during that time period. Students also explore film both as a unique genre and as an interpretation of literature. Through research, critical analysis essays, and class discussion, students study film as "text", learning to analyze plot, setting, and film techniques. No R rated films are studied or viewed.

Creative Writing
1943 ½ Credit
Grades 11, 12

In this course, students explore the craft of writing literary fiction and poetry. Several genres are studied and original pieces are produced. Students explore different forms and approaches to writing poems and produce a variety of poetic pieces to be used in the school's literary magazine, *Write From the Heart* using InDesign Software. Students serve as editors of the school's literary magazine published each spring.

WORLD LANGUAGE

French I
2002/2012; 2013/2014 1 Credit
Grades 9, 10, 11, 12

Students study basic vocabulary and fundamental grammatical structures. Listening comprehension, conversation, reading, and writing skills are developed through various activities and through the use of French in the classroom. Cultural aspects are introduced. The target language is used in all aspects of the class according to the prior knowledge of the students.

French II
2022/2032; 2033/2034 1 Credit
Grades 9, 10, 11, 12
Prerequisite: French I

Students continue to develop the four skills of language learning and study more cultural aspects. Fundamental grammatical constructions are stressed through listening, speaking, reading and writing. The target language is used in all aspects of the class according to the prior knowledge of the students.

French III
2062 / 2072 1 Credit
Grades 10, 11, 12
Prerequisites: French II and teacher approval

Students build vocabulary and learn advanced grammatical structures. They further develop their listening, speaking, reading, and writing skills through literary and nonliterary texts. The course is conducted in French. College credit through the Bellarmine University ACES dual-credit program may be earned provided certain academic qualifications are met.

IB French III
2040/2050 **1 Credit**
Grades 10, 11
Prerequisites: **Honors French II**

Students build vocabulary and learn advanced grammatical structures. They further develop their listening, speaking, reading, and writing skills through an exploration of IB themes. Literary and nonliterary texts are used as well as activities that challenge the students to think and communicate effectively in the language. The course is conducted in French. Additionally, college credit through the Bellarmine University ACES dual-credit program may be earned provided certain academic qualifications are met.

French IV
2102 / 2112 **1 Credit**
Grades 11, 12
Prerequisites: **French III and teacher approval**

Students review and refine their language skills through listening, speaking, reading, and writing activities. They explore the language through authentic texts, music, art, and culture. The course is conducted in French. College credit through the Bellarmine University ACES dual-credit program may be earned provided certain academic qualifications are met.

IB French IV
2080/2090 **1 Credit**
Grades 11, 12
Prerequisites: **IB French III**

Students review and refine their language skills by exploring IB themes through the use of authentic texts, music, art and culture. The course is conducted in French. Students are required to complete the standard-level IB internal assessments and to take the standard-level IB exam. Additionally, college credit through the Bellarmine University ACES dual-credit program may be earned provided certain academic qualifications are met.

French V
2141/2151 **1 Credit**
Grade 12
Prerequisites: **French IV and teacher approval**

Students refine and enhance their listening, speaking, reading, and writing skills in French on a variety of literary and nonliterary topics. Communication activities are emphasized. The course is conducted in French.

IB French V
2120/2130 **1 Credit**
Grade 12
Prerequisite: **IB French IV**

Students refine and enhance their listening, speaking, reading, and writing skills, with emphasis on the use of the second language for active communication. This course is conducted in French. Students are required to complete higher-level IB internal assessments and to take the higher-level IB exam.

Spanish I
2302/2312; 2313/2314; 2315/2316; 2317/2318
1 Credit
Grades 9, 10, 11, 12

Students study basic vocabulary and fundamental grammatical structures. Listening, speaking, reading and writing skills are developed through various activities and through the use of Spanish in the classroom. Cultural aspects are introduced. The target language is used in all aspects of the class according to the prior knowledge of the students.

Spanish II
2322/2332; 2333/2334; 2335/2336; 2337/2338
1 Credit
Grades 9, 10, 11, 12
Prerequisite: **Spanish I**

Students continue to develop the four skills of language learning and study more cultural aspects. Fundamental grammatical constructions are stressed through listening, speaking, reading and writing. The target language is used in all aspects of the class according to the prior knowledge of the students.

Spanish III
2362/2372 **1 Credit**
Grades 10, 11, 12
Prerequisites: **Spanish II 2322/ 2332 or 2333/2334 and teacher approval**

Students build vocabulary and learn advanced grammatical structures. They further develop their listening, speaking, reading, and writing skills through literary and nonliterary texts. The target language is used in all aspects of the class according to the prior knowledge of the students.

IB Spanish III
2340/2350 **1 Credit**
Grades 10, 11
Prerequisites: **Honors Spanish II**

Students build vocabulary and learn advanced grammatical structures. They further develop their listening, speaking, reading, and writing skills through an exploration of IB themes. Literary and nonliterary texts are used as well as activities that challenge the students to think and communicate effectively in the language. The course is conducted in Spanish. Additionally, college credit through the Bellarmine University ACES dual-credit program may be earned provided certain academic qualifications are met.

Spanish IV
2392/2402 **1 Credit**
Grades 11, 12
Prerequisites: **Spanish III and teacher approval**

Students review and refine their language skills through listening, speaking, reading, and writing activities. They explore the language through authentic texts, music, art, and culture. The course is conducted in Spanish. Students who qualify for the Bellarmine University ACES program may earn college credit in course 2391/2401.

IB Spanish IV
2380/2390 **1 Credit**
Grades 11, 12
Prerequisite: **IB Spanish III**

Students review and refine their language skills by exploring IB themes through the use of authentic texts, music, art, and culture. The course is conducted in Spanish. Students are required to complete the standard-level IB internal assessments and to take the standard-level IB exam. Additionally, college credit through the Bellarmine University ACES dual-credit program may be earned provided certain academic qualifications are met.

Spanish V
2421/2431 **1 Credit**
Grade 12
Prerequisites: **Spanish IV and teacher approval**

Students refine and enhance their listening, speaking, reading, and writing skills in Spanish on a variety of literary and nonliterary topics. Communication activities are emphasized. The course is conducted in Spanish.

IB Spanish V
2410/2420 **1 Credit**
Grade 12
Prerequisite: **IB Spanish IV**

Students refine and enhance their listening, speaking, reading, and writing skills, with emphasis on the use of the second language for active communication. This course is conducted in Spanish. Students are required to complete higher-level IB internal assessments and to take the higher-level IB exam.

HEALTH

Health
2449 **½ Credit**
Grade 9

This course provides opportunities for students to acquire health knowledge and alter negative or reaffirm positive health behaviors. The content of the health class includes basic anatomy and physiology, nutrition, critical issues in health such as drugs, alcohol, eating disorders, AIDS, and other diseases, which can affect general health.

Physical Education
2459 **½ Credit**
Grade 10

This course promotes and encourages lifelong physical fitness and wellness through a wide variety of activities and knowledge of sports fundamentals. The course includes physical conditioning and participation in individual and team sports and recreational activities.

Fitness for Life
2469 **½ Credit**
Grades 11, 12
Prerequisite: **Physical Education**

This course provides students the opportunity to expand their knowledge of fitness and improve the skills learned in Physical Education I. Students gain a greater awareness of cardiovascular fitness, enabling them to increase their energy level and general health. Students will assess their current level of fitness in relation to the five components of physical fitness: flexibility, cardiovascular health, muscular strength, muscular endurance, and body composition. Students will also learn strategies to help them begin, design, and maintain an exercise program to keep them fit for life. The students will learn to use the equipment in the fitness center.

INTERDISCIPLINARY

Theory of Knowledge
2850/2860 **1 Credit**
Grade 11 (second semester)
Grade 12 (first semester)
Prerequisite: **Admittance to the Full Diploma IB Program**

This full-year course is taken the second semester of junior and the first semester of senior year. It provides a substantive base for the IB curriculum. It challenges students to develop their critical and creative abilities while examining methods of thinking in content areas such as humanities, social and natural sciences, and in ethical, moral and aesthetic thought, logic, and argumentation. Course work focuses on discussion, written work, and creative projects. The course affirms the value of open inquiry as the key to all learning. IB assessments are required.

MATH

All math courses require the student to have a TI-84 or TI-84+ graphing calculator.

Algebra I
2502/2512; 2513/2514; 2515/2516; 2507/2508
1 Credit
Grade 9

This course introduces students to the language and techniques of algebra with a focus on applications and solutions of linear equations, inequalities, linear systems, elementary quadratic equations, and operations on polynomial expressions. Graphical representation is stressed.

Accelerated Algebra II/Geometry
2552/2562 **1 Credit**
Grade 9
Prerequisites: **Successful completion of 8th grade Algebra I class; departmental placement based on Algebra I exit exam**

This is a challenging, integrated program for gifted students who have successfully completed advanced Algebra I in the 8th grade, who can assimilate concepts quickly, and who enjoy a challenge in mathematics. Students complete the objectives for Algebra II, Geometry, and Trigonometry in two years. This course is the first year of a two-year sequence.

Geometry
2572/2582; 2583/2584; 2585/2586
1 Credit
Grade 10
Prerequisite: **Algebra I**

This course is a study of plane geometry, basic properties of equality, congruence, similarity, right triangles, polygons, circles, area, and volume.

Accelerated Geometry/Trigonometry
2611/2621 **1 Credit**
Grade 10
Prerequisite: **Accelerated Algebra II/Geometry**

The second year of a two-year sequence, this course is a continuation of Accelerated Algebra II/Geometry. Students complete the objectives for Geometry and Trigonometry.

Algebra II
2632/2642; 2643/2644; 2645/2646 **1 Credit**
Grade 11
Prerequisite: **Algebra I**

This course examines the structure and properties of the real number system and introduces the complex number system. Topics include systems of equations, quadratic functions, rational polynomial expressions.

ACES Precalculus
2651/2661 **1 Credit**
Grades 11, 12
Prerequisites: **Algebra II and teacher approval**

This course is a study of trigonometric, polynomial, rational, logarithmic, and exponential functions and their graphs and applications. College credit through the Bellarmine University ACES dual-credit program may be earned provided certain academic qualifications are met.

IB Math SL I
2700/2710 **1 Credit**
Grade 11
Prerequisite: **Honors-level math**

This course is part one of a two-year sequence designed to prepare students for the IB Math SL exams. IB Math SL I is the study of trigonometric, polynomial, rational, logarithmic and exponential functions and their graphs and applications, matrices, combinatorics and probability, statistics and data analysis and vectors. Additionally, college credit through the Bellarmine University ACES dual-credit program may be earned provided certain academic qualifications are met.

IB Math HL I
2780/2790 **1 Credit**
Grade 11
Prerequisites: **Accelerated Geometry/Trigonometry**

This course is part one of a two-year sequence designed to prepare students for the IB Math HL or SL exam. IB Math HL/SL I is a theoretical study of trigonometric, polynomial, rational, logarithmic and exponential functions and their graphs and applications, matrices, combinatorics and probability, statistics and data analysis, and vectors. Additionally, college credit through the Bellarmine University ACES dual-credit program may be earned provided certain academic qualifications are met.

IB Math Studies
2680/2690 **1 Credit**
Grades 11, 12
Prerequisite: **Honors-level math**

This course examines trigonometric, logarithmic, and exponential functions and their graphs and applications, basic statistics, probability, logic, and beginning calculus. An IB project is required. The student must take the IB Math Studies exam. Additionally, college credit through the Bellarmine University ACES dual-credit program may be earned provided certain academic qualifications are met.

ACES Calculus
2771/2781 **1 Credit**
Grade 12
Prerequisite: **Precalculus or IB Math Studies**

This course examines limits, derivatives, integrals and applications of integration. College credit through the Bellarmine University ACES dual-credit program may be earned provided certain academic qualifications are met.

AP Calculus
2760/2770 **1 Credit**
Grade 12
Prerequisite: **ACES Precalculus or IB Math Studies**

This course examines limits, derivatives, integrals and applications of integration. Students taking this class must take the AP test. Additionally, college credit through the Bellarmine University ACES dual-credit program may be earned provided certain academic qualifications are met.

IB Math SL II
2720/2730 **1 Credit**
Grade 12
Prerequisite: **IB Math SL I**

This course is part two of a two-year sequence designed to prepare students for the IB Math SL exams. IB Math SL II is the study of limits and differential and integral calculus of elementary functions. Additionally, college credit through the Bellarmine University ACES dual-credit program may be earned provided certain academic qualifications are met.

IB Math HL II
2800/2810 **1 Credit**
Grade 12
Prerequisite: IB Math HL I

This course is part two of a two-year sequence designed to prepare students for the IB Math SL or HL exam. IB Math HL II is the study of limits and differential and integral calculus of elementary functions. Additionally, college credit through the Bellarmine University ACES dual-credit program may be earned provided certain academic qualifications are met.

AP Statistics
2740/2750 **1 Credit**
Grades 11, 12
Prerequisites: IB Math Studies or ACES Precalculus and teacher approval

This course includes data exploration, probability, simulation, statistical inference, as well as methods, planning and implementations of a statistical study, probability, simulation, and statistical inference. Technology is an integral part of this course. Students are required to take the AP Statistics exam. Additionally, college credit through the Bellarmine University ACES dual-credit program may be earned provided certain academic qualifications are met.

Introduction to College Algebra
2683/2684 **1 Credit**
Grade 12
Prerequisite: Algebra II

This course examines the fundamentals of radicals, exponents, rational expressions, linear equations and inequalities, systems of equations, graphing, transformations of functions, exponential and logarithmic functions, and introduces complex numbers. Students will learn to apply algebraic techniques to real-life situations and will develop an understanding of fundamental algebra concepts.

Math Topics
2675/2676 **1 Credit**
Grade 12
Prerequisite: Algebra II

This course is for seniors who do not plan to pursue a math or science major in college. This course covers topics such as problem solving, functions and their graphs, trigonometry, and reviews topics from Algebra I and II.

RELIGION

Revelation of God
2813/2814 **1 Credit**
Grade 9

This course examines the nature of belief, faith, and religion. Catholic understandings of God, Trinity, the elements of the Apostles' Creed and their meanings for Christian discipleship. Semester two focuses on God's Self revelation in the texts and themes of the Hebrew Scriptures (Old Testament).

Revelation in History
2823/2824 **1 Credit**
Grade 10

This course focuses on the life and teachings of Jesus of Nazareth, founder and center of Christian belief, presented in Christian Scriptures (New Testament). Semester two surveys key people, traditions, and events in the development of the Christian community from Pentecost to contemporary times.

Social Justice
2833/2834 **1 Credit**
Grade 11

This course explores the issues and challenges of contemporary Christian discipleship. Students examine causes of injustice regarding local and global issues in light of the gospel message and Roman Catholic teachings on justice for all humanity.

Christian Ethics
2843/2844 **1 Credit**
Grade 12

This course surveys the Roman Catholic tradition regarding human nature, Christian character, moral discernment and moral responsibility. To appreciate mature understandings of gospel values, commandments and Church teachings, students apply course topics to case studies, current events and personal conscience development.

Service Hours

As an extension of the Baptismal call to "be Christ to others," service learning is a vital element of the total education of each Sacred Heart Academy student. Service outreach to the needy and vulnerable persons in our larger community directly demonstrate the Ursuline core value of Service. Freshmen and Sophomores complete 25 hours of service; Juniors and Seniors complete 30 hours. A required classroom student response verifies Service Learning each year.

Retreat Program

The Sacred Heart retreat program, in conjunction with the religious studies classroom education, offers each student the opportunity to reflect on herself, her relationships with family and friends, and especially her relationship with God. All Freshmen attend a one-day retreat during the school day. Sophomores participate in an overnight retreat. All Juniors participate in a social justice immersion experience, either overnight or during a school day. Seniors are encouraged to participate in a three-and-one-half-day retreat based on the "Christian Awakening" retreat model. All retreats take place off campus.

SCIENCE

Biology/Chemistry
3002/3012 **1 Credit**
Grade 9
Prerequisite: Departmental approval based on High School Placement Test score and Algebra I exit exam

This course introduces the basic biology and chemistry topics to students. Major concepts covered include matter and change, measurement and calculation, atoms – the building blocks of matter, bonding, acids and bases, cells, genetics, evolution, plant diversity and other topics as time permits. Hands-on labs and projects supplement classroom instruction.

Biology
3022/3032; 3033/3034; 3035/3036; 3037/3038
1 Credit
Grade 9

In this course, basic biological concepts are introduced to the student. Emphasis in the first semester is on cell structure and function. Major biological principles of genetics, ecology, plant diversity, and evolution are also studied. Hands-on laboratory investigations and projects are used to supplement classroom activities.

Chemistry/Physics
3042/3052 **1 Credit**
Grade 10
Prerequisite: Biology/Chemistry and strong math skills

This fast paced course is designed to follow Biology/Chemistry and continues the study of chemistry during the first semester. The chemistry topics studied during this year include bonding, reactions, stoichiometry, states of matter, gases and thermochemistry. Upon completion of the chemistry topics, students are introduced to fundamental topics in physics including motion, work, force, energy, electricity, waves, sound, light and magnetism. This course uses advanced mathematics in the analysis of these concepts and involves strong problem-solving skills. Theoretical knowledge is applied through experimental work.

Chemistry
3092/3102 **1 Credit**
Grades 10
Prerequisites: Honors Biology and Honors Algebra I

This course studies principles of chemistry systematically by showing the relationship between experiment and theory with a strong emphasis on mathematics and advanced problem solving skills. Topics include atomic structure, bonding, chemical reactions, stoichiometry, thermochemistry, states of matter, and acid/base chemistry. Theoretical knowledge is applied through experimental work, technical writing, and mathematical calculations.

Chemistry
3103/3104 **1 Credit**
Grades 10, 11, 12
Prerequisites: Biology and Algebra I

This course studies principles of chemistry systematically relating theory, experimentation and problem solving. Topics include atomic structure, bonding, chemical reactions, stoichiometry, thermochemistry, states of matter, and acids and bases with practical applications. Theoretical knowledge is applied through experimental work.

Conceptual Chemistry
3105/3106 **1 Credit**
Grades 10, 11, 12
Prerequisites: Biology and Algebra I

This course studies the principles of chemistry using limited math. Topics include atomic structure, bonding, chemical reactions, solutions, states of matter, and acids and bases. Knowledge obtained in this course is applied through experimental work and hands-on projects.

Physics
3062/3072 **1 Credit**
Grades 11, 12
Prerequisites: Honors Algebra I and Honors Geometry (previously or concurrently) and strong math skills

This course introduces students to the fundamental topics of motion, force, momentum, energy, waves, sound, light and basic electromagnetics. This course is taught using advanced mathematics in the analysis of these concepts and involves strong problem-solving skills. Theoretical knowledge is applied through experimental work.

Physics
3073/3074 **1 Credit**
Grades 11, 12
Prerequisites: High Academic Algebra I and High Academic Geometry (taken previously or concurrently)

This course introduces students to the fundamental topics of motion, force, momentum, energy, waves, sound, light and basic electromagnetics. This course explores the physics of real-life situations and lab investigations using mathematics (first-year algebra) and problem-solving skills.

Conceptual Physics
3075/3076 **1 Credit**
Grades 11, 12
Prerequisites: Algebra I (taken previously or concurrently)

This course introduces students to the fundamental topics of motion, force, momentum, energy, waves, sound, light, and basic electromagnetics. The course emphasizes a conceptual understanding of the physics of real-life situations and lab investigations. Formulas are used as guides for thinking and problem solving using basic algebra to clarify concepts.

IB Chemistry SL
3080/3090 **1 Credit**
Grades 11, 12
Prerequisites: Chemistry/Physics or Honors Chemistry

This one-year course uses knowledge acquired in previous science courses to expand understanding in the field of chemistry. Topics studied include stoichiometry, atomic theory, periodicity, bonding, states of matter, energetics, kinetics, equilibrium, acids and bases, reduction, oxidation, organic chemistry, human biochemistry, medicines and drugs. The body of knowledge obtained is applied through experimental, practical work utilizing the scientific methods at all levels. Students will design some of their own experiments and participate in an interdisciplinary group project. Students are required to complete standard-level IB internal assessments and to take the standard-level IB exams. Due to administrative considerations, the possibility exists that only IB Chemistry SL or IB Physics SL will be offered.

IB Physics SL
3170/3180 **1 Credit**
Grades 11/12
Prerequisites: Chemistry/Physics or Honors Physics

This one year course uses knowledge acquired in previous science courses to expand understanding in the field of physics. Topics covered include the study of measurements, uncertainty, mechanics, thermal physics, waves, electricity, field, forces, magnetism, energy, power, climate change, optics, quantum and nuclear physics. Students will design some of their own experiments and must participate in an interdisciplinary group project. Students are required to complete standard-level IB internal assessments and to take the standard-level IB exam. Due to administrative considerations, the possibility exists that only IB Chemistry SL or IB Physics SL will be offered.

IB Biology I HL
3110/3120 **1 Credit**
Grade 11
Prerequisites: Chemistry/Physics or Honors Chemistry

This course is the first part of a two-year course and provides an in-depth look at classification and diversity as well as human health and physiology. Topics will include classification, digestion, the transport system, gas exchange, defense against infectious disease, the kidney, hormonal control, reproduction, nerves, neurotransmitters and the brain, perception of stimuli, muscles and movement and behavior. Readings, discussions, audio-visuals and lab investigations are employed in the learning process. Students will design some of their own experiments, are required to complete higher-level IB internal assessments and to take the higher-level IB exams at the end of their second year of study.

IB Biology II HL
3130/3140 **1 Credit**
Grade 12
Prerequisite: IB Biology I HL

This is the second part of the two-year IB Biology HL course and includes an in-depth study of cells, chemistry of life, nucleic acids and proteins, genetics, cell respiration and photosynthesis, botany, ecology and the origin of life on Earth. A strong emphasis on laboratory investigations is employed in the learning process. Outside reading assignments are required. Students are required to participate in an interdisciplinary group project, complete higher-level IB internal assessments and to take the higher-level IB exam. Additionally, college credit through the Bellarmine University ACES dual-credit program may be earned provided certain academic qualifications are met.

Essentials of Human Anatomy and Physiology
3183/3184 **1 Credit**
Grades 11, 12
Prerequisite: 85% in Biology

This course is a basic study of the human body. The overall interaction of the body's systems is studied as well as the individual structure and function of each system. Laboratory activities include simple physiological and anatomical observations as well as dissections.

Human Anatomy and Physiology
3182/3192 **1 Credit**
Grades 11, 12
Prerequisite: 85% in Biology 3022/3032 or 3033/3034 or 3002/3012

This course is an in depth study of the human body. The overall interaction of the body's systems is studied as well as the individual structure and function of each system. Laboratory activities include physiological and anatomical observations as well as dissections. Outside reading is required each quarter.

AP Biology
3150/3160 **1 Credit**
Grades 11, 12
Prerequisites: 85% in Biology 3022/3032 and Chemistry 3092/3102. Honors Human Anatomy and Physiology is strongly recommended (taken previously or concurrently)

This course presents information required of a college freshman pursuing a science degree. Topics include biochemistry, cells, cellular energetics, heredity, molecular genetics, evolution, biodiversity, structure/function of plants and animals, and ecology. Summer work is required and must be completed prior to the first week of class. Outside reading assignments are required each quarter. Students are required to take the AP Biology exam.

COURSE REQUIREMENTS, CREDITS AND LEVELS

To earn a diploma from Sacred Heart Academy, a student must successfully complete 26 academic credits. During each semester, students must take seven courses, including Religion, and have a TEAM period (see Parent-Student Handbook for information about TEAM).

REQUIRED COURSES/CREDITS FOR GRADUATIONS

The following 23 credits are required for graduation from Sacred Heart Academy:

Religion	4 credits
Arts/Humanities	1 credit (1/2 credit must be in choral music)
Computer	1/2 credit
English	4 credits
Foreign Language	2 credits in same language
Health and P.E.	1 credit (1/2 credit in each)
Mathematics	4 credits (Students are required to take one credit of Math each year; courses must include Algebra I, II, and Geometry)
Science	3 credits (Biology, Chemistry, Physics)
CCL	1/2 credit (freshmen)
Social Studies	3 credits (U.S. History, World History, U.S. Government, elective)

Students may choose electives for the remaining credits.

ACADEMIC COURSE LEVELS

The majority of Sacred Heart Academy's courses are leveled according to academic challenge so that students are able to succeed according to their ability without being overwhelmed. With input from former teachers and from the student and parent, a student is placed in one of these academic levels during her freshman and sophomore years:

Honors:	Very challenging, pre-college, advanced-level work. Course numbers end in a 2
High Academic:	Challenging pre-college, high-school level work. Course numbers end in a 3 or 4
Academic I:	Pre-college, high-school level work. Courses end in a 5 or 6
Academic II:	Pre-college, high-school level work with emphasis on developing skills. Students at this level may need outside tutoring or may need to enter preparatory programs in college. Courses end in a 7 or 8.

As students approach junior year, additional levels are available for those who qualify to enter the International Baccalaureate (IB), Advanced Placement (AP), and Bellarmine University ACES programs.

IB/AP:	International Baccalaureate or Advanced Placement courses from The College Board. Academic challenge is equivalent to first or second year college work. External assessments are required. Courses end in a 0.
ACES:	Bellarmino University Dual Credit. Academic challenge is equivalent to first year college work, or a course taught at an accelerated pace. Courses end in a 1.

IB PROGRAM ELIGIBILITY REQUIREMENTS

Students should have an 85% average in the prerequisite honors-level freshman and sophomore courses and be approved for acceptance into the IB Program. Students enrolled in an IB course are required to complete the IB assessments for that course.

ACES ELIGIBILITY REQUIREMENTS

Bellarmino University requires ACES students to have a cumulative 3.25 GPA and a minimum ACT score of 23 or SAT score of 1080. Registration for ACES courses occurs in the Fall.

AP ELIGIBILITY REQUIREMENTS

Students who register for AP courses must:

- Have an 85% average in the prerequisite honors-level courses. (see below)
- Have a teacher recommendation.

Course	Prerequisite
AP English	Honors English III or IB English I
AP Calculus	ACES Precalculus or IB Math Studies
AP Statistics	ACES Precalculus or IB Math Studies
AP Biology	Honors Biology and Honors Chemistry
AP Psychology	Honors or IB social studies
AP U.S. Government	Honors or IB social studies and Honors or IB English

Students in AP classes are required to take the AP exams at the end of the school year.

QUALITY POINT INDEX

Courses are leveled according to the degree of difficulty, the depth of the subject matter, and the requirements of the course. The Quality Point Index ranks the courses according to the degree of difficulty to determine the student's class rank. The lower the last number of the course, the higher the number of points awarded to that course. Courses ending in a 9 are not calculated in the Quality Point Index for class rank.

COURSE SELECTION

In the spring, students select courses for the following school year with the guidance of the deans of studies, their teachers and their counselors. Students are given a course selection form in February. Necessary signatures are required for approval of all courses selected. Students should be aware of prerequisites and minimum grade requirements for courses. The course selection form, contract, and a \$300 deposit are due **March 15, 2011**. Students who lose their courses selection forms will be charged a nominal fee for a replacement. After the contract deadline, students will register for next year's classes on Edline at school. Every effort is made to honor the students' course requests when the master schedule is developed; however, courses may conflict or may not be offered due to insufficient enrollment.