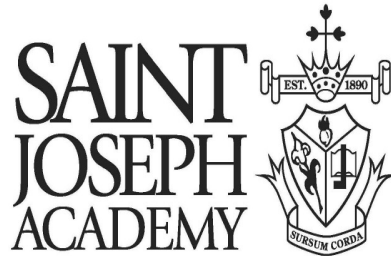


SAINT
JOSEPH
ACADEMY

*2009-2010
Course Offering
Book*

Sursum Corda

Lift Up Your Hearts



Mission Statement

Saint Joseph Academy, rooted in the spirituality of the Congregation of St. Joseph, promotes academic excellence, fosters love and unity with God, one another and all creation, and educates young women for compassionate leadership in a global society

INTRODUCTION

This booklet will give you and your parents a preview of the courses you may choose for the 2009-2010 school year. You will select eight classes in all. Remember that one advantage of the block schedule is that you can double up on courses, e.g. two math classes, two world language classes, etc. Do not hesitate to be creative in your scheduling! We also encourage you to take the most rigorous courses you feel comfortable taking. Colleges like to see students challenge themselves and would rather see a student with a B in an honors level course than an A in a regular level course. It is highly recommended that students take as many honors and AP courses as possible to improve the chance of being admitted to the college of choice.

The following state, diocesan, and school requirements must be fulfilled in order to graduate from Saint Joseph Academy: (We require a minimum of 28 credits to graduate.)

DEPARTMENT	CLASS OF 2010 NUMBER OF CLASSES REQUIRED	CLASSES OF 2011, 2012, & 2013 NUMBER OF CLASSES REQUIRED
Business/Technology	1	1
English	4	4
Health	1 semester class (0.5 credit hours)	1 semester class (0.5 credit hours)
Physical Education	1 semester class (0.5 credit hours)	1 semester class (0.5 credit hours)
Math	3	4
Science	3	3
Social Studies	3 (World History, US History, Gov/Econ)	3 (World History, US History, Gov/Econ)
Theology	4	4
Visual & Performing Arts	1	1
World Language	0	2 (in same language)
Electives	Enough to meet minimum 28 credits to graduate	Enough to meet minimum 28 credits to graduate

REGISTRATION

Things to consider before registration:

- Courses weighted as honors are more rigorous and receive an extra 0.5 quality points in the student's grade point average. Courses weighted as AP are the most rigorous and receive an extra 1.0 quality point in the student's grade point average. This extra weight will be added to the GPA at the end of each semester.
- Parents make the ultimate decision with regards to course selection.
- Guidance counselors are available to discuss course selections with students and/or parents. Please contact your guidance counselor if you wish to make an appointment.
- The minimum requirement for students is eight classes with a maximum of one study hall per semester. (Study halls count for zero credits and Health and P.E. each only count as a half of a credit even though they are semester long courses.)

Procedure for course selection:

- Read this course offering book carefully. This book will also be available online on our website.
- Select eight courses as your first choice.
- Select three alternate courses in case you do not get into all your first choice classes. Understand that despite the best efforts at accommodating student requests during scheduling it is not always possible to place students in all of the first choice courses. For this reason please put thought into selecting your alternate courses.
- Students will attend a registration workshop on **Thursday, March 12 and Friday, March 13, 2009**. (Parents will receive written directions via US mail describing how to register their daughters on-line).
- Sign up for courses in PowerSchool online between **Thursday, March 12 and Friday, March 27, 2009**.
- Print a copy of your selections after registration, have your parents sign showing their approval, and turn this into the guidance office by **Friday, March 27, 2009**.
- **Please note that students who wish to change their schedules after Friday, May 1, 2009, will be charged \$100.** Schedule changes may not be possible based on staffing and class sizes based on the students' initial choices.
- Normally, a student will not be permitted to withdraw after the first seven days of the class. Students withdrawing from a class after the first seven days will receive either a **WP** (withdraw passing) or **WF** (withdraw failing) based on their course average at the time of their withdrawal. A course change fee of \$100.00 will be assessed.

HONORS, AP, PSEOP AND HONORS DIPOLMA

HONORS COURSES

Honors is a distinction applied to certain classes to distinguish them from standard course offerings. The difference between a regular class and the honors class is not necessarily the amount of work, but the type of work required and the pace of studying. Honors courses are enriched; they offer the same material in greater depth and with a faster pace. Honors courses emphasize critical and independent thinking to produce creative application of ideas. Motivation is the main quality that characterizes an honors student.

(http://en.wikipedia.org/wiki/Honors_course)

ADVANCED PLACEMENT COURSES

Advanced Placement courses provide students an opportunity for learning that goes beyond just facts and figures. The rich course material, classroom discussions, and demanding assignments typical of AP courses will help a student develop the content mastery and critical thinking skills expected of college students. It is the student's responsibility to at times work independently and at a pace established by the classroom instructor. Emphasis on higher level thinking skills and independent research may be time-consuming and should be accounted for by the incoming AP student. By participating in AP, a student is given the chance to earn college credit and to stand out in the college admissions process.

AP tests are scored differently from the common A-F grading scale. They are scored on a numeric scale, 1 to 5. These scores are obtained with a bell curved grading scale; thus, students are scored competing against each other rather than on a set standard.

(<http://professionals.collegeboard.com/profdownload/ap-bulletin-students-parents.pdf>)

POST-SECONDARY ENROLLMENT OPTIONS PROGRAM (PSEOP)

PSEOP is a program under which a secondary grade student may enroll at a college and complete nonsectarian courses for high school and college credit. (*However, not all colleges and universities honor PSEOP credits.*) Information regarding enrollment in this program is provided to students in March. The only PSEOP course offered at SJA is Calculus. Recent changes in PSEOP funding and policy indicate a trend where students will have increasing difficulty obtaining approval for these courses. These classes are weighted 1.0 quality points.

EXPECTATIONS FOR HONORS AND ADVANCED PLACEMENT STUDENTS

- Students are responsible for the assigned reading, even if all parts are not discussed in class.
- Students are responsible for their own remediation. If a student doesn't understand information from a previous class, she is expected to seek help outside of class either from the teacher or another source.
- Students are responsible to at least attempt all homework and have it done at the beginning of class on the day it is due whether or not it is eventually collected or graded.
- Students are to work toward mastery of the material.
- Students are expected to bring questions and concerns about the material to class. Class time, however, may not always allow every discussion to be as extensive as every member of the class may like.
- Students are expected to keep good notes and all materials to study for tests including final exams. There will not be extensive reviews.

- Students will be assigned projects with the expectation that the vast majority of the project be completed outside of class time.
- Student study groups are highly encouraged.
- Student success in the class is dependent on her efforts.

HONORS DIPLOMA

Beginning with the 2008-2009 school year Saint Joseph Academy will offer an honors diploma for students that meet the requirements listed below as determined by the Ohio Legislature and the Ohio Department of Education. Students must meet all but one of the following requirements to earn their Honors Diploma.

SUBJECT	CLASS OF 2010	CLASSES OF 2011, 2012, & 2013
English	4 units	4 units
Mathematics	3 units, including Algebra I, Geometry, Algebra II or a three-year sequence of courses that contain equivalent content	4 units, including Algebra I, Geometry, Algebra II or equivalent and another higher level course or a four-year sequence of courses that contain equivalent content
Science	3 units, which develop the concepts for physical, life, and earth and space sciences	4 units, including physics and chemistry
Social Studies	3 units	4 units
Foreign Language	3 units, including at least 2 units in each language studied	3 units, including at least 2 units in each language studied
Fine Arts	1 unit	1 unit
Electives	Either 1 unit of business/technology and 2 units of above or 3 units of the above subject, not including career-technical	Not counted toward requirements
Grade Point Average	3.5 on a 4.0 scale	3.5 on a 4.0 scale
ACT/SAT Score [excluding scores from the writing sections]	27 ACT / 1210 SAT	27 ACT / 1210 SAT

BUSINESS/TECHNOLOGY

Any of the following courses will fulfill the business/technology graduation requirement.

MICROSOFT OFFICE

Course Number: 801

1.0 Credit

Grades 9-12

Bid Idea: Demonstrating proficiency in all productivity tools as required by the Ohio Academic Content Standards.

- Word®
- Excel®
- Access®
- Powerpoint®
- Publisher®

ACCOUNTING

Course Number: 820

1.0 Credit

Grades 11-12

Prerequisite: Microsoft Office®

Big Idea: Overview of basic accounting skills and processes.

- Accounting cycle
- Computerized accounting tasks
- Computer simulations
- Spreadsheets

WEB DESIGN I

Course Number: 850

1.0 Credit

Grades 10-12

Big Idea: Effectively use the design process and design software to develop and create web-sites and basic web animation.

- Apply the design elements to web layout
- Apply the design process to solve design problems
- Learn how to use the programs Dreamweaver® and Flash®

WEB DESIGN II

Course Number: 851

1.0 Credit

Grades 10-12

Prerequisite: Web Design I

Big Idea: Continue to build on the skills and techniques developed in Web Design through the use of Dreamweaver and Flash. Develop design skills to create successful web sites.

- Advanced Dreamweaver® techniques
- Advanced Flash® techniques
- Designing of websites

GRAPHIC DESIGN I

Course Number: 840

1.0 Credit

Grades 10-12

Prerequisite: Art I or Art of Many Cultures

Big Idea: Effectively use design processes and design software, as well as hand skills, to create graphics for print

- Apply the design elements and design principles
- Discover the design process and how to use it to solve design problems
- Learn how to use the programs Illustrator® and Photoshop®

GRAPHIC DESIGN II

Course Number: 705

1.0 Credit

Grades 11-12

Prerequisite: Graphic Design I

Big Idea: Continue to develop the skills and techniques developed in Graphic Design I. A project oriented class that will produce a studio portfolio as an end product.

- Advanced use of design elements and design principles
- Utilize design process to solve design problems
- Learn advanced applications of the programs Illustrator® and Photoshop®

DIGITAL PHOTOGRAPHY I

Course Number: 707

1.0 Credit

Grades 9-12

Prerequisite: Art I or Art of Many Cultures

Big Idea: This course introduces digital photographic equipment, theory and processes including camera operation, composition, computer photo manipulation and creative expression.

Upon completion, students should be able to successfully expose, digitally manipulate, and print a well-conceived composition.

- How digital photograph has impacted visual literacy
- How to read, analyze and interpret photographs
- Photo composition and techniques for taking good pictures
- How to manipulate photos using image rotation, cropping, re-sizing, and the basics of graphic design including sizing files, file compression, methods, color adjustments, sharpness, and applying photo filters
- How manipulated photos impact women in modern society

NEWSPAPER AND YEARBOOK PUBLICATION (Offered from 3:05-3:50 daily; year-long class)

Course Number: 831

1.0 Credit

Grades 9-12

Big Idea: Students will use Adobe InDesign® and Photoshop® to produce major school publications including the school newspaper and yearbook.

- Create industry standard layouts
- Utilize typographic techniques
- Photo enhancement and correction
- Learn and apply editing skills and techniques

HONORS PROGRAMMING: VISUAL BASIC

Course Number: 260

1.0 Honors Credit

Grades 10-12

Prerequisite: Geometry

Recommended: Honors Geometry

Big Idea: An introduction to the logic and structure of object oriented computer programming using the Microsoft Visual Basic® programming language. Practical programming projects and group work are emphasized rather than traditional assessments.

- Planning and design
- Variables and data types
- Conditional statements and looping
- Menus
- Arrays

HONORS PRE-ENGINEERING I

Course Number: 145

1.0 Honors Credit

Grades 10-12

Prerequisite: Geometry

Recommended: Honors Geometry

Big Idea: Introduction to the concepts, skills and logic needed for a successful engineering, science, math, or most other careers. An emphasis is placed on teamwork and creative problem solving.

- Introduction to engineering fields
- Introduction to drafting principles
- 3-D modeling using a CAD Program®
- Programming and construction of small vehicles/cars
- Model bridge building and analysis
- Programming of LEGO® Robots with LEGO® Mindstorms

HONORS PRE-ENGINEERING II

Course Number: 146

1.0 Honors Credit

Grades 10-12

Prerequisite: Algebra 2, Honors Engineering 1

Recommended: Honors Algebra 2

Big Idea: Students will have extensive hands-on opportunities to experiment with digital technology, including applications of telecommunications, the internet, electronic music, and other multimedia technology that is popular in today's society.

- Digital sound and music
- Digital images and matrix mathematics
- Coding and compression of data
- Programming of LEGO® Robots with NQC
- Wireless communications and networking

ENGLISH

ENGLISH 9: INTRODUCTION TO LITERARY GENRES

Course Number: 311

1.0 Credit

Grades 9

Big Ideas: What constitutes good literature? How does one communicate in writing effectively? What is information literacy?

- Explore and analyze a variety of literary genres (short story, drama, poetry, novel, and non-fiction)
- Develop more sophisticated types of writing
- Emphasize 21st century research skills

HONORS ENGLISH 9: ADVANCED STUDY OF LITERARY GENRES

Number: 312

1.0 Honors Credit

Grades 9

Big Ideas: Students will examine in greater depth the five genres of literature. Students must read more literature and will write more intensively focusing on analysis of literature.

- Explore and analyze a variety of literary genres (short story, drama, poetry, novel, and non-fiction)
- Develop more sophisticated types of writing
- Emphasize 21st century research skills

ENGLISH 10: AMERICAN LITERATURE

Course Number: 321

1.0 Credit

Grades 10

Big Ideas: How did the literature in America evolve from the Native American experience to the present?

- Explore and analyze a variety of periods in American literature (Native American, oral tradition, Puritan, Revolutionary, etc.)
- Continue to improve quality of writing across genres
- Interpret and defend a variety of writings (research paper, technical writing, creative writing, etc.)
- Clearly present synthesized ideas in original writing

HONORS ENGLISH 10: AMERICAN LITERATURE

Course Number: 322

1.0 Honors Credit

Grades 10

Big Ideas: Students will examine in greater depth the evolution of American literature. Students must read more literature and will write more intensively focusing on analysis of literature.

- Explore and analyze a variety of periods in American literature (Native American, oral tradition, Puritan, Revolutionary, etc.)
- Continue to improve quality of writing across genres
- Interpret and defend a variety of writings (research paper, technical writing, creative writing, etc.)
- Clearly present synthesized ideas in original writing

ENGLISH 11: BRITISH LITERATURE

Course Number: 331

1.0 Credit

Grades 11

Big Ideas: How did English literature and language develop from the Anglo-Saxon through the Modern periods?

- Explore and analyze a variety of periods of British literature (Anglo-Saxon, Medieval, Renaissance, etc.)
- Incorporate more maturity and personal style into writing
- Analyze and criticize literature
- Demonstrate competence in research

HONORS ENGLISH 11: BRITISH LITERATURE

Course Number: 332

1.0 Honors Credit

Grades 11

Big Ideas: Students will examine in greater depth the evolution of British literature. Students must read more literature and will write more intensively focusing on analysis of literature.

- Explore and analyze a variety of periods of British literature (Anglo-Saxon, Medieval, Renaissance, etc.)
- Incorporate more maturity and personal style into writing
- Analyze and criticize literature
- Demonstrate competence in research of literary topics

ENGLISH 12: WORLD LITERATURE

Course Number: 341

1.0 Credit

Grade 12

Big Ideas: How did the literature evolve in various cultures from ancient times to the present?

- Explore and analyze world literature (myths, fiction, folktales, drama, etc.)
- Write confidently and convey clearly desired thoughts and ideas in a variety of forms of writing
- Synthesize a variety of ideas clearly as seen in different pieces of writing
- Exhibit facility in use of a variety of research styles (MLA, Chicago, APA, etc.)

AP ENGLISH LITERATURE AND COMPOSITION

Course Number: 345

2.0 AP Credits for FULL YEAR COURSE (2 block class)

Grade 12

Prerequisite: English 11

Required: AP English Literature and Composition Exam is mandatory (cost approximately \$85.00)

Big Ideas: An AP Literature and Composition course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style, and themes as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone.

- Intensive study of representative works from various genres and periods, concentrating on works of recognized literary merit
- Students read deliberately and thoroughly, taking time to understand a work's complexity, to absorb its richness of meaning, and to analyze how that meaning is embodied in literary form
- Students reflect on the historical and social values literature reflects and embodies
- Writing assignments focus on the critical analysis of literature and include expository, analytical, and argumentative essays
- Students will increase their ability to explain clearly, cogently, even eloquently, what they understand about literary works and why they interpret them as they do

(http://apcentral.collegeboard.com/apc/publicpository/52272_apenglocked5_30_4309.pdf)

The following courses can fulfill some of your elective requirements.

IRISH LITERATURE

Course Number: 347

1.0 Credit

Grades 10-12

Big Ideas: An in-depth study of 19th and 20th century Irish literature and history together with an examination of the social, political and historical contexts represented by this body of literature, such as the Act of Union, the Young Ireland Movement, the Great Famine, the Land War and Home Rule Movements, the Anglo-Irish Ascendancy, and the origins of the Irish Literary Revival.

- Surveying 19th century Irish literature written in English, including fiction, poetry, drama, and folklore
- Exploring Irish poetry, drama, and fiction from the 19th and 20th centuries
- Examining how Irish authors envisioned Ireland in strikingly new ways as the country moved towards nationhood
- Engaging in rigorous reading, writing and critical discussion

CREATIVE WRITING

Course Number: 301

1.0 Credit

Grades 9-12

Big Ideas: Exploring the creative imagination in the process of writing.

- Writing imaginatively on a daily basis
- Producing writing in each genre: fiction, poetry, non-fiction, drama
- Sharing and critiquing with peer writers in weekly workshops
- Revising and rewriting for publication
- Completing a final portfolio of best works

WOMEN'S LITERATURE

Course Number: 346

1.0 Credit

Grades 10-12

Big Ideas: What are the cultural and political ideologies that have impacted women writers throughout history? Which women have emerged as great writers and why? What are some of the communal themes that emerge from the works of women writers? How do contemporary women writers compare with their counterparts in other time periods?

- Explore the challenges faced by women writers in their time periods
- Read a variety of works by and about women
- Focus on multi-cultural women writers
- Discuss women's viewpoints and voices in literature
- Write both personally and analytically about the impact and importance of women's literature

SPEECH AND DEBATE

Course Number: 308

1.0 Credit

Grades 10-12

Big Ideas: What is required for effective communication? What are the major types of speeches? What are the best techniques for effective public speaking? How does one speak persuasively? What is involved in the process of academic debate?

- Understand and practice various types of oral communication
- Prepare and give each type of speech: informative, persuasive, social cohesion and extemporaneous to an audience of classmates and receive constructive feedback
- Study all aspects of academic debate
- Research a debate topic in-depth
- Participate in an academic debate before a judge

HEALTH & PHYSICAL EDUCATION

PHYSICAL EDUCATION

Course Number: 160

.50 Credit

Grades 9-12

Recommended: Grades 9-10

Big Idea: Why is lifetime physical fitness important?

- Fitness training and benefits
- Self-defense awareness
- Archery and golf
- Softball and soccer
- Basketball and volleyball

HEALTH AND CPR/FIRST AID

Course Number: 150

.50 Credit

Grade 9

Big Idea: What are healthy life choices?

- CPR and first aid
- Alcohol, tobacco, and illegal drugs
- Proper nutrition
- Reproduction, pregnancy, and STDs
- Self-esteem and mental health

MATHEMATICS

ALGEBRA 1

Course Number: 212

1.0 Credit

Grades 9-10

Big Idea: Develops problem solving skills using variables in expressions and equations.

- Properties of real numbers
- Polynomial equations and inequalities
- Graphing techniques
- Systems of linear equations
- Problem-solving techniques

HONORS ALGEBRA 1

Course Number: 213

1.0 Honors Credit

Grades 9-10

Big Idea: Develops problem solving skills using variables in expressions and equations. Concepts will be taught with a greater emphasis on depth, detail, and theory than in Algebra 1.

- Properties of real numbers
- Polynomial equations and inequalities
- Graphing techniques
- Systems of linear equations
- Problem-solving techniques

GEOMETRY

Course Number: 222

1.0 Credit

Grades 9-11

Prerequisite: Algebra 1

Big Idea: Develops the properties and relationships of sets of points in a plane and in space with the development of mathematical proof.

- Lines, points, and planes
- Polygons
- Circles
- 3-D figures
- Mathematical logic

HONORS GEOMETRY

Course Number: 223

1.0 Honors Credit

Grades 9-11

Prerequisite: Algebra 1

Recommended: Honors Algebra 1

Big Idea: Develops the properties and relationships of sets of points in a plane and in space with the development of mathematical proof. Emphasis will be given to mathematical logic and proof.

- Lines, points, and planes
- Polygons
- Circles
- 3-D figures
- Mathematical logic

ALGEBRA 2

Course Number: 232

1.0 Credit

Grades 10-12

Prerequisite: Algebra 1

Requirement: Each student must have her own graphing calculator (TI-83 or TI-84 preferred)

Big Idea: Develops the relationship between functions and their graphs.

- Quadratic functions
- Conic Sections
- Trigonometric functions
- Exponential/logarithmic functions
- Matrices

HONORS ALGEBRA 2

Course Number: 233

1.0 Honors Credit

Grades 10-12

Prerequisite: Algebra 1

Requirement: Each student must have her own graphing calculator (TI-83 or TI-84 preferred)

Recommended: Honors Geometry

Big Idea: Rigorously examines the relationship between functions and their graphs with enhanced emphasis on mathematical theory.

- Quadratic functions
- Conic Sections
- Trigonometric functions
- Exponential/logarithmic functions
- Matrices

HONORS DISCRETE MATH

Course Number: 240

1.0 Honors Credit

Grades 11-12

Prerequisite: Algebra 2

Requirement: Each student must have her own graphing calculator (TI-83 or TI-84 preferred)

Recommended: Honors Algebra 2

Big Idea: The exploration of math topics not presented in traditional math courses.

- Number theory
- Advanced probability
- Deductive logic and truth tables
- Sequences
- Cryptography

INTRODUCTION TO STATISTICS/ADVANCED TOPICS

Course Number: 244

1.0 Credit

Grades 11-12

Prerequisite: Algebra 1, Geometry, Algebra 2

Requirement: Each student must have her own graphing calculator (TI-84-Plus preferred)

Big Idea: A survey of mathematical topics relevant to students enrolling in a non-mathematical collegiate program or entering the workforce. An emphasis will be placed on statistics and the analysis of concepts with technology.

- Statistics
- Economic and consumer issues
- Deductive logic
- Probability
- Techniques of problem solving

PRE-CALCULUS

Course Number: 242

1.0 Credit

Grades 11-12

Prerequisite: Algebra 1, Geometry, Algebra 2

Requirement: Each student must have her own graphing calculator (TI-83 or TI-84 preferred)

Big Idea: Establishes the theoretical and computational foundations necessary for further studies in calculus with an emphasis on graphing.

- Sequences/Series
- Trigonometric graphs and identities
- Further development of exponential functions and logarithms
- Solving higher order equations
- Synthetic division

HONORS PRE-CALCULUS

Course Number: 243

1.0 Honors Credit

Grades 11-12

Prerequisite: Algebra 1, Geometry, Algebra 2

Requirement: Each student must have her own graphing calculator (TI-83 or TI-84 preferred)

Recommended: Honors Algebra 2

Big Idea: Establishes the theoretical and computational foundations necessary for further studies in calculus with an emphasis on graphing. The honors course includes additional enrichment topics including vectors, polar coordinates/polar graphs, and limits.

- Sequences/Series
- Trigonometric graphs and identities
- Synthetic division
- Further development of exponential functions and logarithms
- Solving higher order equations

PSEOP CALCULUS

Course Number: 250

1.0 AP Credit and 4 semester hours of college credit through CSU (MTH181)

Grade 12

Prerequisite: Pre-Calculus and admission to CSU Post Secondary Option Program

Recommended: Honors Pre-Calculus

Requirement: Each student must have her own graphing calculator (TI-84-Plus preferred)

Big Idea: The study of derivatives and integrals of functions of one variable and their applications.

- Limits and their connection to calculus
- Derivatives and their graphs
- Application of derivatives
- Integrals and their graphs
- Applications of integration

The following courses can fulfill some of your elective requirements.

HONORS PROGRAMMING: VISUAL BASIC

Course Number: 260

1.0 Honors Credit

Grades 10-12

Prerequisite: Geometry

Recommended: Honors Geometry

Big Idea: An introduction to the logic and structure of object oriented computer programming using the Microsoft Visual Basic programming language. Practical programming projects and group work are emphasized rather than traditional assessments.

- Planning and design
- Variables and data types
- Conditional statements and looping
- Menus
- Arrays

HONORS PRE-ENGINEERING I

Course Number: 145

1.0 Honors Credit

Grades 10-12

Prerequisite: Geometry

Recommended: Honors Geometry

Big Idea: Introduction to the concepts, skills and logic needed for a successful engineering, science, math, or most other careers. An emphasis is placed on teamwork and creative problem solving.

- Introduction to engineering fields
- Introduction to drafting principles
- 3-D modeling using a CAD Program
- Programming and construction of small vehicles/cars
- Model bridge building and analysis
- Programming of LEGO® Robots with LEGO® Mindstorms

HONORS PRE-ENGINEERING II

Course Number: 146

1.0 Honors Credit

Grades 10-12

Prerequisite: Algebra 2 and Honors Engineering 1

Recommended: Honors Algebra 2

Big Idea: Students will have extensive hands-on opportunities to experiment with digital technology, including applications of telecommunications, the internet, electronic music, and other multimedia technology that is popular in today's society.

- Digital sound and music
- Digital images and matrix mathematics
- Coding and compression of data
- Programming of LEGO® Robots with NQC
- Wireless communications and networking

SCIENCE

INTERGRATED PHYSICAL SCIENCE

Course Number: 100

1.0 Credit

Grade 9

Big Idea: Establishing a comprehensive background in the general sciences of chemistry, physics, and review of earth science.

- Integrating higher level thinking in the scientific method and scientific problem solving
- Studying matter and its chemistry
- Learning how matter interacts according to the laws of physics
- Becoming familiar with basic earth science
- Understanding the principles of our solar system and space

BIOLOGY

Course Number: 102

1.0 Credit

Grade 10

The Big Idea: Exploring life on a microscopic scale. How can we look at the microscopic systems that control life?

- The scope of biology- How do we study the science of living organisms?
- Cellular Biology- What are the molecules of life?
- Inheritance- What is the cellular basis of inheritance patterns?
- Course includes laboratory work

HONORS BIOLOGY

Course Number: 103

1.0 Honors Credit

Grades 9-10

Big Idea: Comprehensive study of life processes at the cellular level presented at an accelerated pace. This class is geared toward preparing students for AP Biology.

- The scope of biology- How do we study the science of living organisms?
- Cellular biology- What are the molecules of life?
- Inheritance- What is the cellular basis of inheritance patterns?
- Course includes laboratory work and varied application of critical thinking in the form of debates, journaling, class discussions as well as independent projects

AP BIOLOGY

Course Number: 104

2.0 AP Credits for FULL YEAR COURSE (2 block class)

Grades 10-12

Prerequisites: Honors Biology and Honors Chemistry

Required: AP Biology Exam is mandatory (cost approximately \$85.00)

Big Idea: AP Biology includes those topics regularly covered in a college biology course.

- Provide students with a conceptual framework and factual knowledge of biological topics
- Use analytical skills to deal critically with the rapidly changing science of biology (http://apcentral.collegeboard.com/apc/public/repository/ap07_bio_coursedescript.pdf)

CHEMISTRY

Course Number: 110

1.0 Credit

Grades 10-12

Prerequisites: Biology and Algebra I

Big Idea: What is inorganic chemistry?

- Laboratory safety and experiments
- Mathematical tasks as basic skills for chemical relationships
- History and usage of periodic table as a tool
- Ionic and molecular compounds
- Chemical reactions and quantifiable concepts

HONORS CHEMISTRY

Course Number: 120

1.0 Honors Credit

Grades 9-12

Prerequisites: Biology and Algebra I

Big Idea: What is inorganic chemistry? How is chemistry an explosive science? This class is geared toward preparing students for AP Chemistry.

- Laboratory safety and experiments
- Mathematical tasks as basic skills for chemical relationships
- History and usage of periodic table as a tool
- Ionic and molecular compounds
- Chemical reactions and quantifiable concepts

HONORS PHYSICS

Course Number: 131

1.0 Honors Credit

Grade 10-12

Prerequisite: Chemistry and Pre-Calculus

Recommended: Honors Pre-Calculus and Honors Chemistry

Big Idea: Lab oriented, calculus-based approach to the principles and relationships governing the physical world. The pace of this honors section is accelerated and the orientation of the material is highly mathematical.

- Motion
- Force
- Energy
- Electricity
- Concepts of modern physics, such as relativity

HONORS ANATOMY AND PHYSIOLOGY

Course Number: 109

1.0 Honors Credit

Grades 10-12

Recommended: Biology and Chemistry

Big Idea: What makes the human body work?

- Learning the parts of the body
- Breaking down diseases, injuries, and other health conditions
- Looking at the human body through the eyes of a health care provider

ENVIRONMENTAL PROCESSES

Course Number: 140

1.0 Credit

Grades 10-12

Prerequisites: Biology

Big Idea: From a basis in ecology and the natural sciences, students will examine issues such as environmental degradation, global change, endangered species, and our view of the natural world.

- Investigate human impacts and interactions with the natural world
- Individual processing, critical thinking, searching for solutions to many environmental issues at both local and global levels
- Project based learning

The following courses can fulfill some of your elective requirements.

HONORS PRE-ENGINEERING I

Course Number: 145

1.0 Honors Credit

Grades 10-12

Prerequisite: Geometry

Recommended: Honors Geometry

Big Idea: Introduction to the concepts, skills and logic needed for a successful engineering, science, math, or most other careers. An emphasis is placed on teamwork and creative problem solving.

- Introduction to engineering fields
- Introduction to drafting principles
- 3-D modeling using a CAD Program
- Programming and construction of small vehicles/cars
- Model bridge building and analysis
- Programming of LEGO® Robots with LEGO® Mindstorms

HONORS PRE-ENGINEERING II

Course Number: 146

1.0 Honors Credit

Grades 10-12

Prerequisite: Algebra 2 and Honors Engineering 1

Recommended: Honors Algebra 2

Big Idea: Students will have extensive hands-on opportunities to experiment with digital technology, including applications of telecommunications, the internet, electronic music, and other multimedia technology that is popular in today's society.

- Digital sound and music
- Digital images and matrix mathematics
- Coding and compression of data
- Programming of LEGO® Robots with NQC
- Wireless communications and networking

SOCIAL STUDIES

WORLD HISTORY

Course Number: 410

1.0 Credit

Grade 9

Big Ideas: A study of the major events and movements which shaped the cultural, political, economic, and social relationships that have existed in the world from 1750 to the present.

- Age of Revolutions
- Imperialism
- World Wars
- Cold War and Post Cold War Developments

HONORS WORLD HISTORY

Course Number: 411

1.0 Honors Credit

Grade 9

Big Ideas: A comprehensive study of the major events and movements which shaped the cultural, political, economic, and social relationships that have existed in the world from 1750 to the present.

- Age of Revolutions
- Imperialism
- World Wars
- Cold War and Post Cold War Developments

AP WORLD HISTORY

Course Number: 440

2.0 AP Credits for FULL YEAR COURSE (2 block class)

Grades 9-12

Required: AP World History Exam is mandatory (cost approximately \$85.00)

Big Idea: To develop greater understanding of the evolution of global processes and contacts in different types of human societies. Advanced understanding through a combination of selective factual knowledge and appropriate analytical skills. This class highlights the nature of changes in global frameworks and their causes and consequences, as well as comparisons among major society. AP World History emphasizes relevant factual knowledge, leading interpretive issues and skills in analyzing types of historical evidence.

- Interaction between humans and the environment
- Development and interaction of cultures
- State building, expansion, and conflict
- Creation, expansion and interaction of economic systems
- Development and transformation of social structures

(http://apcentral.collegeboard.com/apc/public/repository/ap07_worldhist_coursdesc.pdf)

UNITED STATES HISTORY

Course Number: 420

1.0 Credit

Grades 10-12

Big Ideas: Study major events and movements that shaped American life from 1877 to the present American society.

- Re-uniting America: the successes and failures of Reconstruction
- Progress and innovation: American industrialization and urbanization
- Immigration: effects on America and the immigrant experience
- American leaders: examining legacies and analyzing critical decisions
- America in the 21st century

HONORS UNITED STATES HISTORY

Course Number: 422

1.0 Honors Credit

Grades 10-12

Big Ideas: Students will explore a chronological line of American history from the Reconstruction period through the present age. Students will be challenged to think critically about the people and events that shaped our nation's political, economic, cultural, and sociological history.

- Re-uniting America: the successes and failures of Reconstruction
- Progress and innovation: American industrialization and urbanization
- Immigration: effects on America and the immigrant experience
- American leaders: examining legacies and analyzing critical decisions
- America in the 21st century

AP UNITED STATES HISTORY

Course Number: 423

2.0 AP Credits for FULL YEAR COURSE (2 block class)

Required: AP United States History Exam is mandatory (cost approximately \$85.00)

Grades 10-12

Big Ideas: Designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and the materials in U.S. history. To assess historical materials – their relevance to a given interpretive problem, reliability, and importance – and to weigh the evidence and interpretations presented in historical scholarship. To develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format.

- American identity and diversity
- Culture, reform and religion
- Demographic changes and economic transformations
- Environment and globalization
- Politics and citizenship

(http://apcentral.collegeboard.com/apc/public/repository/ap07_worldhist_coursedescrip.pdf)

GOVERNMENT/ECONOMICS

Course Number: 430

1.0 Credit

Grades 11-12

Big Ideas: How does the United States Federal Government work? What effects do economic principles have on the United States? What is the citizen's role in government and economics?

- U.S. Constitution and how it can be modified to meet the needs of changing society
- Decision making process in the three branches of the U.S. Government
- Federalism
- Concepts of capitalism, opportunity cost, supply and demand, money and banking, business and labor, international trade, personal finance, etc.

AP GOVERNMENT AND POLITICS: UNITED STATES

Course Number: 432

2.0 AP Credits for FULL YEAR COURSE (2 block class)

Required: AP Government and Politics U.S. Exam is mandatory (cost approximately \$85.00)

Grades 10-12

Big Ideas: Includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. Students should become acquainted with a variety of theoretical perspectives and explanations for various behaviors and outcomes. Understand typical patterns of political processes and behavior and their consequences. Analyze and interpret basic data relevant to U.S. government and politics.

- Constitutional underpinnings of United States government
- Political beliefs and behaviors
- Political parties, interest groups, and mass media
- Institutions of national government
- Public policy
- Civil rights and civil liberties

(http://apcentral.collegeboard.com/apc/public/repository/ap07_govpol_coursdesc.pdf)

The following courses can fulfill some of your elective requirements.

CONTEMPORARY WORLD STUDIES

Course Number: 437

1.0 Credit

Grades: 9-12

Big Idea: Students will examine conflict in the 20th and 21st centuries as it manifests itself in war, terrorism and social unrest.

- Examine cultural, political, religious, and economic differences between nations
- How and why conflict occurs, as well as solutions
- Honing such skills as debate, negotiation, research and speech making

PSYCHOLOGY

Course Number: 446

1.0 Credit

Grades 10-12

Big Idea: This course is an introductory survey of the basic topics and methods associated with the field of psychology.

- Examination of intelligences
- Stages of development from childhood through adulthood
- Learning and memory
- Emotion, consciousness and personality
- Psychological disorders

THEOLOGY

THEOLOGY 9: CATHOLIC CHRISTIANITY

Course Number: 511

1.0 Credit

Grade 9

Big Idea: Freshmen will study the Catechism of the Catholic Church in order to understand the fundamental teachings found within the Catholic faith.

- Apostles and Nicene Creeds
- Seven sacraments
- Basic morality concepts – Ten Commandments and Beatitudes
- Prayer and worship
- History and charism(spirituality) of the Congregation of Saint Joseph

THEOLOGY 10: SCRIPTURE

Course Number: 521

1.0 Credit

Grade 10

Prerequisites: Theology 9

Big Idea: Sophomores will learn to read and understand the Bible as God's revelation to humanity and become comfortable in using the Bible throughout their lifetime.

- Old Testament - Pentateuch, the Prophets, History, and Wisdom Books
- New Testament - Gospels, Acts of the Apostles, Epistles, and Revelation
- Jesus Christ - His message and the fulfillment of the scriptures
- Women in both the Old and New Testament
- Applying scriptural teachings to everyday life

THEOLOGY 11: MORALITY AND SOCIAL JUSTICE

Course Number: 532

1.0 Credit

Grade 11

Prerequisites: Theology 10

Big Idea: Juniors will explore the theology of Catholic morality and social teachings using selected encyclical letters and Papal documents.

- Moral principles, values, ethics, and character
- Conscience formation and moral decision making
- Bioethical studies
- Catholic teaching on the seven principles of social justice
- Second Vatican focus on contemporary justice concepts and practices

THEOLOGY 12: WORLD RELIGIONS AND WOMEN IN THE CHURCH

Course Number: 541

1.0 Credit

Grade 12

Prerequisites: Theology 11

Big Idea: Students will gain a knowledge of and respect for world religions to prepare them for the 21st century global environment. In addition, our seniors will explore the significance of women in the Church, from our Jewish foremothers to the present day.

- Monotheistic faiths – Christianity, Judaism, Islam
- Polytheistic faiths – Hinduism, Buddhism, Confucianism, Taoism, Shintoism
- Women’s perspectives in Christian theology and in scripture
- Women in Church history
- Role and responsibilities of women in today’s Catholic church and in the world

VISUAL AND PERFORMAING ARTS

Any of the following courses will fulfill the visual and performing arts graduation requirement.

ART I

Course Number: 710

1.0 Credit

Grades 9-12

Big Idea: What is art? How does one explore the creative process of making art?

- 7 Elements of Art
- 7 Principles of Design
- Work in drawing, painting, design, sculpture, and art history

ART II

Course Number: 720

1.0 Credit

Grades 9-12

Prerequisite: Art I

Big Idea: Continued exploration of creating and evaluating art.

- Development of skills of observation
- Exploration of students' potential in the visual arts
- Work in drawing, painting, design, sculpture, and art history

ADVANCED ART III

Course Number: 730

1.0 Honors Credit

Grades 10-12

Prerequisite: Art II

Big Idea: Visual art studies geared to the initial production of a portfolio for college admission or credit.

- Explore formal elements and principles of art
- Investigate conceptual art issues
- Develop technical skills
- Encourage independent thinking

ARTS OF MANY CULTURES

Course Number 702

1.0 Credit

Grades 9-12

Big Idea: The study, exploration and creation of art from around the world.

- Produce a diverse sample of arts from around the world
- Acquire an understanding and appreciation of cultures as expressed through art

SCULPTURE

Course Number: 703

1.0 Credit

Grades 9-12

Prerequisite: Art I, or Art of Many Cultures, or Graphic Design

Big Idea: The study of three dimensional art geared to the production of pieces in various media, using multiple techniques.

- Produce both additive and subtractive sculpture
- Explore various hand-building techniques in clay
- Develop aesthetically pleasing three-dimensional concepts

ADVANCED SCULPTURE/CERMANICS

Course Number: 704

1.0 Credit

Grades 10-12

Prerequisite: Sculpture

Big Idea: More advanced study of three dimensional art.

- Practice wheel-building techniques in clay
- Explore surface design in clay by means of glazes and slip decoration
- Encourage independent thinking and problem solving

AP STUDIO ART IV (2-D DESIGN)

Course Number: 740

2.0 AP Credits for FULL YEAR COURSE (2 block class)

Grades 11-12

Prerequisite: Art III

Required: AP Studio Art Exam is mandatory (cost approximately \$85.00)

Big Idea: Visual art studies geared to the production of a portfolio for submission to the Advanced Placement Board.

- Create a breadth section expressing formal elements and principles of art
 - Investigate conceptual art issues with a concentration section of a portfolio
 - Develop technical skills for a quality section review and judging
- (http://apcentral.collegeboard.com/apc/public/repositoryp08_studioart_coursedescript.pdf)

CONCERT CHOIR

Course Number: 742

1.0 Credit

Grades 9-12

Big Idea: Learn to sing many types of music. Establish fundamental musical reading and writing skills.

- Perform songs from multiple eras and genres
- Sing a solo or in a small group
- Learn new musical reading skills or build upon previous ones
- One major concert performance required

CHAMBER ENSEMBLE with MUSIC HISTORY, STYLES AND CULTURES

Course Number: 743

1.0 Credit

Grades 10-12

Prerequisites: Concert Choir course or audition

Required: \$60 uniform fee for gown

Big Idea: Learn to sing in an advanced vocal ensemble, along with studying music across the world, through numerous styles and historical time periods.

- Ensemble and solo singing
- Sight singing
- One major concert performance required

CHAMBER ENSEMBLE with ADVANCED THEORY AND COMPOSITION

Course Number: 744

1.0 Credit

Grades 10-12

Prerequisites: Concert Choir course or audition

Required: \$60 uniform fee for gown

Big Idea: Learn to sing in an advanced vocal ensemble, along with learning higher levels of music theory and composing original works.

- Ensemble and solo singing
- Sight singing
- Learning to compose melodies in many forms and styles
- One major concert performance required

CHAMBER ENSEMBLE with SHOW CHOIR

Course Number: 745

1.0 Credit

Grades 10-12

Prerequisites: Concert Choir course or audition

Required: \$110 uniform fee for chamber gown and show choir outfit

Big Idea: Learn to sing in an advanced vocal ensemble, along with honing theatrical performances and dancing skills.

- Ensemble and solo singing
- Sight singing
- Broadway style songs and movement
- Popular/contemporary music
- Tight harmonies, as well as solo singing with microphone
- History and practice of dancing and choreography
- One major concert performance required

ORCHESTRA/HAND BELL (FALL)

Course Number: 763

1.0 Credit

Grades 9-12

Big Idea: Learn to play in a large instrumental ensemble, while honing the techniques of solo playing. Learn to play hand bells in a unique and beautiful-sounding ensemble.

- Playing in a full orchestra with strings, winds, brass, piano and percussion
- Playing in a hand bell choir with 5-octaves of Malmarks bells and chimes
- Mastering songs, scales and exercise to improve playing
- Variety of classical, concert, movie and pop repertoire
- Opportunities to conduct, lead sections and work with music software
- One major fall concert performance required

ORCHESTRA/HAND BELL (SPRING)

Course Number: 764

1.0 Credit

Grades 9-12

Big Idea: Continue to improve playing in a large instrumental and hand bell ensemble, while advancing the techniques of solo playing.

- Playing in a full orchestra with strings, winds, brass, piano and percussion
- Mastering songs, scales and exercises to improve playing
- Variety of classical, concert, movie and pop repertoire
- Mastering techniques of the Malmark bells and chimes
- Opportunities to conduct, lead sections and work with music software
- One major spring concert performance required

JAZZ BAND

Course Number: 756

1.0 Credit

Grades 9-12

Big Idea: Learn to play in a smaller ensemble for woodwinds, brass and rhythm section (non-traditional instruments may also join), with a concentration on jazz and big band repertoire.

- Learning to play in the style of American jazz
- Mastering songs, scales and exercises to improve playing
- Developing the ability to improvise solos
- Opportunities to conduct, lead sections and work with music software
- One major spring concert performance required

INTRO TO ACTING I

Course Number: 770

1.0 Credit

Grades 9-12

Big Idea: Enjoy a wide variety of theatrical activities and exercises designed to teach the fundamentals of acting. Learn to relax in front of others in a highly interactive environment. Become more confident and poised while exploring your own personality traits, communication skills, and creating new characters.

- Explore your imagination in multiple improvisational acting activities
- Practice giving and receiving constructive criticism through daily reflections
- Learn and employ new acting terminology
- Grow through individual monologue work and small group scene work
- One major public performance

WEB DESIGN I

Course Number: 850

1.0 Credit

Grades 10-12

Big Idea: Effectively use the design process and design software to develop and create websites and basic web animation.

- Apply the design elements to web layout
- Apply the design process to solve design problems
- Learn how to use the programs Dreamweaver® and Flash®

WEB DESIGN II

Course Number: 851

1.0 Credit

Grades 9-12

Prerequisite: Web Design I

Big Idea: Continue to build on the skills and techniques developed in Web Design I through the use of Dreamweaver® and Flash®. Develop design skills to create successful web sites.

- Advanced Dreamweaver® techniques
- Advanced Flash® techniques
- Designing of web sites

GRAPHIC DESIGN I

Course Number: 840

1.0 Credit

Grades 10-12

Prerequisite: Art I or Art of Many Cultures

Big Idea: Effectively use design processes and design software, as well as hand skills, to create graphics for print

- Apply the design elements and design principles
- Discover the design process and how to use it to solve design problems
- Learn how to use the programs Illustrator® and Photoshop®

GRAPHIC DESIGN II

Course Number: 705

1.0 Credit

Grades 11-12

Prerequisite: Graphic Design I

Big Idea: Continue to develop the skills and techniques developed in Graphic Design I. Graphic Design II is a project oriented class that will produce a studio portfolio as an end product.

- Advanced use of design elements and design principles
- Utilize design process to solve design problems
- Learn advanced applications of the programs Illustrator® and Photoshop®

DIGITAL PHOTOGRAPHY I

Course Number: 707

1.0 Credit

Grades 9-12

Prerequisite: Art I or Art of Many Cultures

Big Idea: This course introduces digital photographic equipment, theory and processes including camera operation, composition, computer photo manipulation and creative expression.

Upon completion, students should be able to successfully expose, digitally manipulate, and print a well-conceived composition.

- How digital photograph has impacted visual literacy
- How to read, analyze and interpret photographs
- Photo composition and techniques for taking good pictures
- How to manipulate photos using image rotation, cropping, re-sizing, and the basics of graphic design including sizing files, file compression, methods, color adjustments, sharpness, and applying photo filters
- How manipulated photos impact women in modern society

WORLD LANGUAGES

FRENCH I

Course Number: 611

1.0 Credit

Grades 9-12

Big Idea: Enables the student to comprehend and use the most basic conversational patterns of the French language.

- Acquire basic vocabulary
- Build communication skills (speaking, listening, reading and writing)
- Develop a fundamental knowledge of the structures, pattern, and grammar of the language
- Introduction to culture and the Francophone world

FRENCH II

Course Number: 621

1.0 Credit

Grades 9-12

Prerequisite: French I

Big Idea: Further enables the student to move to a higher level of comprehension of French with increased emphasis on grammar and conversational flow.

- Increase vocabulary usage and understanding
- More fluency with communication skills
- Increase knowledge of the structure, pattern and use of grammar
- Continued integration of culture with conversation

HONORS FRENCH III

Course Number: 630

1.0 Honors Credit

Grades 9-12

Prerequisites: French I and II

Big Idea: Students move to an advanced or high level of comprehension of French with competency in grammar and conversation. Students focus on various literary works.

- Advanced vocabulary usage and understanding
- Advanced fluency in communication skills
- Advanced knowledge and use of grammar
- Deepened cultural understanding

HONORS FRENCH IV

Course Number: 650

1.0 Honors Credit

Grades 11-12

Prerequisites: French I, II, and Honors French III

Big Idea: Students move to mastering the French language. Communication is exclusively in French and students will read authentic French literature.

- Mastery of vocabulary usage and understanding
- Mastery of communication skills
- Mastery of grammar

LATIN I

Course Number: 613

1.0 Credit

Grades 9-12

Big Idea: Enables the student to comprehend and use the most basic patterns of the Latin language.

- Acquire basic vocabulary
- Build translation skills (listening, reading and writing)
- Develop a fundamental knowledge of the structures, pattern, and grammar of the language
- Introduction to culture

LATIN II

Course Number: 623

1.0 Credit

Grades 9-12

Prerequisite: Latin I

Big Idea: Students experience a more in-depth study. They move to a higher level of comprehension of Latin with increased emphasis on grammar and conversational flow by requiring more memory work, oral participation, and writing.

- Increase vocabulary usage and understanding
- More fluency with translation skills
- Increase knowledge of the structure, pattern and use of grammar
- Continued understanding of culture

HONORS LATIN III

Course Number: 633

1.0 Honors Credit

Grades 10 -12

Prerequisite: Latin I and II

Big Idea: Students move to an advanced or high level of comprehension of Latin with competency in grammar and translation. Students focus on various literary works.

- Advanced vocabulary usage and understanding
- Advanced fluency in translation skills
- Advanced knowledge and use of grammar
- Deepened cultural understanding

AP LATIN: VERGIL

Course Number: 645

2.0 AP Credits for FULL YEAR COURSE (2 block class)

Grades 10-12

Required: AP Latin Exam is mandatory (cost approximately \$85.00)

Prerequisite: Latin I, II and Honors Latin III

Big Idea: Students are expected to be able to translate accurately from Latin into English the poetry or prose. The primary study of this class will be Vergil's *Aeneid*.

- Demonstrate a grasp of grammatical structures and vocabulary
- Show an understanding of literary techniques
- Understand stylistic analysis of advanced work
- Study the cultural, social, and political context of the literature

(http://apcentral.collegeboard.com/apc/public/repository/ap07_latin_coursedescript.pdf)

MANDARIN CHINESE I

Course Number: 690

1.0 Credit

Grades 9-12

Big Idea: Enables the student to comprehend and use the most basic conversational patterns of the Chinese language.

- Acquire basic vocabulary
- Build communication skills (speaking, listening, reading and writing)
- Develop a fundamental knowledge of the structures, pattern, and grammar of the language
- Introduction to culture

MANDARIN CHINESE II

Course Number: 691

1.0 Credit

Grades 9-12

Prerequisite: Mandarin Chinese I

Big Idea: Students experience a more in-depth study. They move to a higher level of comprehension of Chinese with increased emphasis on grammar and conversational flow by requiring more memory work, oral participation, and writing.

- Increase vocabulary usage and understanding
- More fluency with communication skills
- Increase knowledge of the structure, pattern and use of grammar
- Continued understanding of culture

HONORS MANDARIN CHINESE III

Course Number: 697

1.0 Honors Credit

Grades 10-12

Prerequisite: Mandarin Chinese I and II

Big Idea: Students move to an advanced or high level of comprehension of Chinese with competency in grammar and conversation. Students focus on various literary works.

- Advanced vocabulary usage and understanding
- Advanced fluency in communication skills
- Advanced knowledge and use of grammar
- Deepened cultural understanding

HONORS MANDARIN CHINESE IV

Course Number: 698

1.0 Honors Credit

Grades 10-12

Prerequisite: Mandarin Chinese I, II and Honors Mandarin Chinese III

Big Idea: Students move to mastering the Mandarin Chinese language. Communication is exclusively in Chinese.

- Mastery of vocabulary usage and understanding
- Mastery of communication skills
- Mastery of grammar
- Cultural understanding is encouraged to include immersion within a Chinese speaking country

SPANISH I

Course Number: 612

1.0 Credit

Grades 9-12

Big Idea: Enables the student to comprehend and use the most basic conversational patterns of the Spanish language.

- Acquire basic vocabulary
- Build communication skills (speaking, listening, reading and writing)
- Develop a fundamental knowledge of the structures, pattern, and grammar of the language
- Introduction to cultural similarities and differences in the many Spanish speaking countries

SPANISH II

Course Number: 622

1.0 Credit

Grades 9-12

Prerequisite: Spanish I

Big Idea: Further enables student to move to a higher level of comprehension of Spanish with increased emphasis on grammar and conversational flow

- Increase vocabulary usage and understanding
- More fluency with communication skills
- Increase knowledge of the structure, pattern and use of grammar
- Continued understanding of culture

SPANISH III

Course Number: 632

1.0 Credit

Grades 10-12

Prerequisite: Spanish I and II

Big idea: Students move to a higher level of Spanish comprehension with more competency in communication skills.

- Advanced vocabulary usage and understanding
- Advanced fluency in communication skills
- Advanced knowledge and use of grammar
- Deepened cultural understanding

HONORS SPANISH III

Course Number: 639

1.0 Honors Credit

Grades 10-12

Prerequisite: Spanish I and II

Big Idea: Students move to an advanced or high level of comprehension of Spanish with competency in grammar and conversation. Students focus on various literary works.

- Advanced vocabulary usage and understanding
- Advanced fluency in communication skills
- Advanced knowledge and use of grammar
- Deepened cultural understanding

HONORS SPANISH IV

Course Number: 649

1.0 Honors Credit

Grades 10-12

Prerequisite: Spanish I, II, III or Honors Spanish III

Big Idea: Students move to mastering the Spanish language. Communication is exclusively in Spanish.

- Mastery of vocabulary usage and understanding
- Mastery of communication skills
- Mastery of grammar
- Cultural understanding is encouraged to include immersion within a Spanish speaking country

HONORS SPANISH V: SPANISH COMPOSITION THROUGH FILM & LITERATURE

Course Number: 665

1.0 Honors Credit

Grades 11-12

Prerequisite: Honors Spanish IV

Big Idea: High level honors course that emphasizes reading, writing, and speaking around various genres of Spanish literature and media.

- Writing intensive course, e.g. film and book reviews, plot summaries, reflective paragraphs, original poems, etc.
- Mastery of grammar and vocabulary acquisition
- Reading and discussion of Spanish and Spanish/American literature and film

STUDY HALL

STUDY HALL

Course Number: 1000

This non-credit course gives students an opportunity to work on their studies outside of class. However, it is recommended that students only take study halls when absolutely necessary.

COURSES TO BE OFFERED 2010-2011

Changes may be made based on academic review, student interest, and staffing.

FILM

Course Number: 309

1.0 Credit

Grades 10-12

Big Idea: What makes film a major art form? How did film develop from its beginnings until today? How does the film industry portray history, characters, belief systems, etc.?

Caution: There are many R-rated films shown in this course due to their artistic merit. A list of films shown will be distributed to parents at the beginning of the course for parental approval.

- Appreciate the artistry of film
- Utilize the vocabulary of film
- Analyze genres of film
- Understand the history of film
- Learn critical approaches to film and write about film

MEDIA ANALYSIS AND POPULAR CULTURE

Course Number: 303

1.0 Credit

Grades 10-12

Big Idea: What constitutes an intelligent/educated view of 21st century media and culture?

Caution: Students will be exposed to mature themes as a part of this course. All media can be previewed on the course website.

- Deconstruct the constant flow of messages in television, magazines, internet, and videos
- Learn critical theory and how to apply that theory to the media maelstrom they confront on a daily basis
- Analyze "The Cult of Celebritariat"
- Examine bias, facts, propaganda and their effects on newscasts, politics, and the economy

MYTHOLOGY/SCIENCE FICTION

Course Number: 302

1.0 Credit

Grades 10-12

Big Ideas: How does mythology reflect the beliefs of various cultures? How much of science fiction is truth or fantasy? Why do people read and write science fiction? What role does it serve in our every day lives? What real life themes and issues does it bring to conversation?

- Connect cultural beliefs and history to literature
- Evaluate and determine how myths and science fiction texts reflect and shape the cultures that produce them
- Write myths and science fiction of their own to explain origins and ponder futures
- Analyze myths and science fiction through intensive writing

VIETNAM/HOLOCAUST EXPERIENCE

Course Number 305

1.0 Credit

Grades 10-12

Big Idea: How does conflict arise between peoples on a large scale and a small scale? Why do humans perpetrate harm against other humans? Why does conflict exist between groups? What does it take to annihilate a neighbor instead of live with a neighbor?

- Causes, events, and effects of the Vietnam War and Holocaust
- Examination of personal impact of the Vietnam War and Holocaust
- Discussion and analysis of lessons learned to avoid future atrocities

WOMEN LEADING IN THE 21st CENTURY

Course Number: 445

1.0 Credit

Grades 10-12

Big Idea: Through models and theories of leadership, as well as exposure to weekly female leaders in North Eastern Ohio, students will develop skills needed to influence both the local and global community for the common good.

- Management and leadership principles
- Ethics and the role of ethics in leadership and life
- Examination of human relations and self awareness
- Oral and written communication skills
- Critical thinking, problem solving and decision making

SOCIOLOGY

Course Number 436

1.0 Credit

Grades 11-12

Big Idea: How does sociology assist us in understanding the ways that people relate to one another and influence each other's behavior?

- Studies scientifically our society and the social activity of human beings
- Studies the interactions between human beings
- Focuses on groups alone (not the individual) and how they are formed and how they change

ACTING II

Course Number: 775

1.0 Credit

Grades 9-12

Prerequisites: Acting I

Big Idea: Further develop and hone your acting skills with in-depth script study and character analysis. Research the structure and history of theatre and practice the art of producing a play.

- Research the roots of tragedy and comedy and other styles of drama
- Explore the business aspects of producing a play vs. producing a musical
- Examine and create stage settings, costuming and make-up plots
- Perform individual and group original and scripted material

DIGITAL PHOTOGRAPHY II

Course Number: 708

1.0 Credit

Grades 9-12

Prerequisite: Digital Photography I

Big Idea: This course introduces digital photographic equipment, theory and processes including camera operation, composition, computer photo manipulation and creative expression. Upon completion, students should be able to successfully expose, digitally manipulate, and print a well-conceived composition.

- Advanced study of digital photography's impact on visual literacy
- Advanced reading, analysis and interpretation of photographs
- Advanced manipulation of photos using image rotation, cropping, resizing, and the basics of graphic design including sizing files, file compression, methods, color adjustments, sharpness, and applying photo filters

CHAMBER ENSEMBLE with MUSIC THEATRE HISTORY

Course Number: 749

1.0 Credit

Grades 10-12

Prerequisites: Concert Choir or audition

Uniform Fee: \$60 uniform fee for gown

Big Idea: Learn to sing in an advanced vocal ensemble, along with honing the techniques of solo singing and acting through the music and history of Broadway.

- Ensemble and solo singing
- Sight singing
- History of Broadway musicals
- Learning songs and scenes from Broadway musicals

AP CHEMISTRY

Course Number: 121

2.0 AP Credits for FULL YEAR COURSE (2 block class)

Grades 11-12

Required: AP Chemistry Exam is mandatory (cost approximately \$85.00)

Prerequisites: Chemistry

Big Idea: Students will attain a depth of understanding of fundamentals and a reasonable competency in dealing with chemical problems. The students will develop the abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic.

- Structure of matter
- States of matter
- Reactions
- Descriptive chemistry
- Laboratory (*Because chemistry professors at some institutions ask to see a record of the laboratory work done by an AP student before making a decision about granting credit, placement, or both, in the chemistry program, students should keep a laboratory notebook that includes reports of their laboratory work in such a fashion that the reports can be readily reviewed.*)
- Chemical calculations
- Visual Basic will be taught after the AP Exam

(http://apcentral.collegeboard.com/apc/publicrepository/52434_apchemistrylock_4314.pdf)

AP CALCULUS AB

Course Number: 252

2.0 AP Credits for FULL YEAR COURSE (2 block class)

Grades 11-12

Required: AP Calculus AB Exam is mandatory (cost approximately \$85.00)

Big Idea: Students will devote study to topics in differential and integral calculus. The students will develop the abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic.

- Work with functions represented in a variety of ways: graphical, numerical, analytical, or verbal
- Understand the meaning of the derivative in terms of a rate of change and local linear approximation
- Understand the meaning of the definite integral both as a limit of Riemann sums and as the net accumulation of change
- Use integrals to solve a variety of problems
- Communicate mathematics both orally and in well-written sentences and should be able to explain solutions to problems
- Use technology to help solve problems, experiment, interpret results, and verify conclusions

(http://apcentral.collegeboard.com/apc/public/repository/ap08_calculus_coursedesc.pdf)

TENATIVE PLAN FOR CLASSES AT SJA

FRESHMAN YEAR

SOPHOMORE YEAR

1		1	
2		2	
3		3	
4		4	
5		5	
6		6	
7		7	
8		8	
Alternate 1		Alternate 1	
Alternate 2		Alternate 2	
Alternate 3		Alternate 3	
Yearbook & Newspaper 3:05-3:50 Daily		Yearbook & Newspaper 3:05-3:50 Daily	

JUNIOR YEAR

SENIOR YEAR

1		1	
2		2	
3		3	
4		4	
5		5	
6		6	
7		7	
8		8	
Alternate 1		Alternate 1	
Alternate 2		Alternate 2	
Alternate 3		Alternate 3	
Yearbook & Newspaper 3:05-3:50 Daily		Yearbook & Newspaper 3:05-3:50 Daily	



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