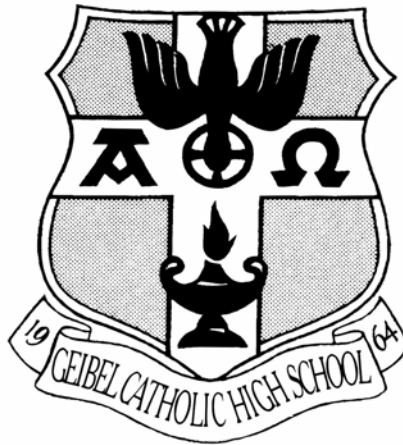


GEIBEL CATHOLIC HIGH SCHOOL



2008 – 2009 Course Descriptions

2008 - 2009

Dear Students and Parents:

We have arrived at the time of the year when thoughts turn to another challenging academic school year. The Course Description Booklet lists and describes all course offerings at Geibel Catholic High School. Courses can be classified under three main groupings.

Some courses are required and do not need a teacher recommendation, e.g., religion, English, phys. ed., American legal system.

Other courses are more demanding and require a teacher recommendation for registration. The Office for Catholic Schools plans to implement a new program in partnership with Seton Hill University, beginning in the 2008-2009 school year. This program will allow students at our Diocese of Greensburg Catholic High Schools to take certain courses within their junior and senior years that will qualify for credit within our high schools and for credit at Seton Hill University. For the 2008-2009 school year, it is likely that seniors will have the ability to schedule four (4) courses that will count as credit for high school and for Seton Hill University. In future years, students will likely be able to complete up to eight (8) courses. The final consideration for these courses to be approved by Seton Hill University as *Catholic University Scholar Program – CUSP* courses will be in the fall of 2008. Once approved, students will have the option to register and pay for such courses in order to receive Seton Hill University credit. There will be a charge of \$190 **per course (not per credit)** if a student would like to register for Seton Hill University credits.

It is our goal to enable students at our Diocese of Greensburg Catholic High Schools to complete up to 24 credits of university course work prior to high school graduation. This will enable our students to enter their studies at the university level at sophomore status. In other words, our students will have the potential to complete their first year of university studies prior to graduating from high school, resulting in approximately \$26,000 to \$33,000 in savings.

These courses must be approved for university level credit. As such, these courses will be advanced, and the curriculum for these courses will push students to complete work at an advanced level.

The teacher who has instructed the student for the current school year will assist the student in selecting his/her class placement. The placement made will be final.

A third group of courses are electives. Some elective courses require a teacher recommendation while others do not. In either case the elective choice is final. When students change their minds over the summer, classes, teachers and the entire school schedule is affected.

You have placed your academic welfare and future in the hands of our school and we as teachers and administrators embrace the opportunity to assist you in this venture. Thank you for your decision to support Catholic education by attending Geibel Catholic High School.

Your cooperation is greatly appreciated.

Sincerely,

Vincent Mascia
Principal

Geibel Catholic High School strives to provide a program of study designed to develop the skills and talents of all students. Use this Course Description Booklet to make informed decisions when selecting courses to be taken. Seek additional information concerning classes from the guidance counselor and subject teachers. Please consider the following information when completing the Course Registration Sheets:

1. All students must sign up for eight credits every school year. Students are required to take eight classes both semesters.
2. The course selection sheet must be returned by the designated deadline.
3. It is the student's responsibility to schedule classes required for graduation as well as those required by post-secondary schools for their various programs of study.
4. Many post-secondary schools are requiring three or more years of the same foreign language.
5. A "C" grade in a challenging subject is more worthwhile than an "A" grade in a less demanding subject.
6. Seniors need to continue taking challenging subjects their senior year in order to develop and maintain good study habits needed for post-secondary education.
7. **Do not select classes just to be with friends.**

GRADUATION REQUIREMENTS

RELIGION	4 CREDITS
ENGLISH	4 CREDITS
MATHEMATICS	3 CREDITS
SCIENCE	3 CREDITS
SOCIAL STUDIES	3 ½ CREDITS
PHYSICAL EDUCATION	2 CREDITS
HEALTH	1 CREDIT
FINE ARTS & HUMANITIES	3 CREDITS
FOREIGN LANGUAGE	2 CREDITS
ELECTIVES	3 CREDITS
GUIDANCE	½ CREDIT
<u>TOTAL</u>	<u>29 CREDITS</u>

ENGLISH

GRADUATION REQUIREMENTS – 4 CREDITS

2030 English I 9 (One Credit)

English I emphasizes recognition of grammar components and their use. Composition work is assigned in order to facilitate the orderly expression of ideas through a command of rhetorical devices. Various literary works are presented. Readings for the course require interpretative skills.

Prerequisite: None

2040 English II 10 (One Credit)

English II reinforces grammar and composition skills previously learned in English I. Students will apply these skills in both written themes and in oral communication. Emphasis is placed on the acquisition of critical thinking skills using all genres of literature. Students are required to complete one independent novel project.

Prerequisite: English I

2045 Honors English II (Weighted Course) 10 (One Credit)

Honors English II is an enriched section of English II. Work includes analysis of all genres in literature, formal writing, a reader's journal, and independent novel reading and vocabulary study. Students are required to complete two independent novel projects. Students are expected to contribute to class discussions and to present a creative response to the works studied. Emphasis is placed on developing higher-level critical thinking skills.

Prerequisites: Cumulative QPA of 3.80, an "A" average in the previous English class and teacher recommendation.

2096 Composition & Rhetoric 11 (One Credit)

Composition provides students the opportunity to improve skills in expository writing and to gain competence for college writing courses. Students will complete essays, journals, tests and class performances. Students will complete assignments using Microsoft Word.

2098 Advanced Composition & Rhetoric – CUSP 11 (One Credit)

This course is designed for the student capable of doing college-level work and who is willing to devote the necessary time and energy to complete a more rigorous and demanding English course. This course provides students the opportunity to improve skills in expository writing and to gain competence for college writing courses. Students will complete essays, journals, tests and class performances. Expertise in Microsoft Word is a requirement.

2055 Literature 11, 12 (One Credit)

American Literature emphasizes reading, vocabulary, grammar and composition. Literature studied includes representative poems, short stories, plays, novels, and essays from various periods in American history. The work demands that students exhibit skills

associated with three levels of comprehension: literal, interpretative, and applied as well as with levels of increasing complexity: recall, inference and analysis, evaluation and judgment. A term paper is required for completion of this course. Recommended for college-bound students.

British Literature uses selected writings from the Old English to the Modern Period as the basis for the development of vocabulary, research, and composition skills as well as critical thinking and reading skills. Activities demand that students achieve skills associated with levels of increasing complexity: recall, inference, reading and analysis. A required term paper is assigned to provide an opportunity for students to apply and demonstrate mastery of these skills. Students will also be required to read independent novels and complete projects based on those novels. Recommended for college-bound students.

2095 Principles of Literature (CUSP Weighted Course) 12 (One Credit)

Principles of Literature examines interpretive literature through the reading of selected works from various writers and genres. Both oral and written reports will be assigned.

College credit is available for this course from Seton Hill University.

Prerequisite: "A" in Composition and Rhetoric English class.

2060 Communications & Publications 11, 12 (One Credit)

Communications incorporates communication skills (verbal, nonverbal, and interpersonal) as an introduction to media forms (newspapers, television, magazines, radio, etc.). Both oral and written work will be assigned.

Publications covers the basic structure, precepts, and background of journalism organization and composition of newspapers. The student will develop basic journalistic writing skills and will contribute to the publication of the Geibel Gazette.

Prerequisite: Prerequisites: English I, II

2070 Literary Genres 11, 12 (One Credit)

Literary Genres emphasizes background and terms relevant to the major genres in literature (i.e. short story, novel, poetry, and drama). Representative authors and significant works will be analyzed. Short, critical papers and vocabulary are integral to the course.

Prerequisites: English I, II

FINE ARTS

GRADUATION REQUIREMENTS - 3 CREDITS

3010 Introduction to Art 9 (½ Credit)

Introduction to Arts is designed to introduce students to art and a variety of art media. It is an opportunity to develop the creative side of each individual. Each project will be presented in a step-by-step method enabling all students to follow directions and produce works of art demonstrating many skills. Students will learn drawing techniques, work with clay, learn to mix colors and paint with tempera, and experience block printing.

They will also learn about realistic, abstract, and non-objective art, and how artists use the elements of art and principles of design to create a work of art.

3020 Two Dimensional Art 11, 12 (One Credit)

Two Dimensional Art concentrates on drawing, painting, and printmaking. Students will continue learning how to use the elements of art and principles of design to create visually pleasing compositions. Students will learn more drawing, painting, and printmaking techniques. Students will use pencil, charcoal, pastels, markers, colored pencils, pen and ink, scratchboard, acrylic paint, and printing tools and ink. During the second semester, students will create works of art that are expressive and exploratory in nature. This course also includes lessons in art appreciation and art history.

3030 Three Dimensional Art 11, 12 (One Credit)

Three Dimensional Art gives the student an opportunity to work three dimensionally with clay, cardboard, plaster, wire, and other materials. Students will produce pottery using slab, pinch, and coil methods, as well as the potter's wheel. Students will create sculpture using additive and subtractive techniques. Sculpture will range from figurative to abstract and non-objective. During the second semester, projects in this class will be more complex and exploratory in nature. Students will create works that explore spatial relationships, metamorphosis, symbolism, and the expressive properties of each medium. This course also includes lessons in art appreciation and art history.

3035 Black and White Photography - CUSP 12 (One Credit)

Black and White Photography covers a brief history of photography, an introduction to the work of famous photographers, and an explanation of criteria essential to the production of fine art photography. Students will learn to use a manual 35mm camera with built-in light meter. They will adjust composition, f-stops, shutter speed, and depth of field to create visually pleasing images. Students will also learn how to develop film, use an enlarger, make contact sheets and print their own photographs. Students must provide their own 35mm cameras. All other supplies will be provided for a course fee of \$50.00.

3040 Advanced 2-Dimensional Art - CUSP 11, 12 (One Credit)

Advanced 2-Dimensional Art is for students who have taken two-dimensional art and who will continue with drawing, painting, and printmaking techniques. Individual works of art will be conceived, developed, and created by the student artist. Emphasis will be placed on creativity, originality, technical skill and the ability to work independently. This course is intended for the serious art student only.

College credit is available for this course from Seton Hill University.

Prerequisite: Teacher recommendation

3050 Advanced 3-Dimensional Art - CUSP 11, 12 (One Credit)

Advanced 3-dimensional Art is for students who have taken three-dimensional art and who will continue working with a variety of media to create sculptures and pottery. Individual works of art will be conceived, developed, and created by the student artist.

Emphasis will be placed on creativity, originality, technical skill and the ability to work independently. This course is intended for the serious art student only.

College credit is available for this course from Seton Hill University.

Prerequisite: Teacher recommendation

3060 General Music 9 (1 Semester) (½ Credit)

General Music enables students to create, perform, listen to and analyze music of diverse genres and styles from various historical periods and cultures. Textbook: Music! Its Role and Importance in Our Lives.

3076 Chorus 10, 11, 12 (One Credit)

Chorus enables students to develop singing skills, including a cappella singing, written notation, sight singing, solo and ensemble performance and harmony. Students will participate in Chorus performances throughout the year.

3077 Music Theory I & II - CUSP 11, 12 (One Credit)

This course is designed for those students who have a basic working knowledge of music and wish to pursue their study further. Students will learn the basics of music theory, including key and time signatures, musical notation, scales and modes. Students will then be able to employ these elements of composition by learning basic compositional technique. This course will also serve to prepare students who plan to attend a school of music upon graduation.

College credit is available for this course from Seton Hill University.

Teacher Approval

3078 Intro to Theater 10, 11, 12 (One Credit)

Intro to Theater will explore all areas of theater performance, including the audition process, acting, singing, dance, stage direction, production, set design and construction, script analysis and theater history. Students will also write their own plays or musicals.

3081 Acting - CUSP 11, 12 (One Credit)

Through hands-on practice, students gain an initial exposure both to the language of the theatre and to acting itself developing body and voice and becoming acquainted with the various elements of an actor's work. This introduction to acting and theatre techniques includes character and scene improvisation, movement, and speech. Students will develop communication skills through the preparation and performance of several monologues and scenes from both contemporary dramatic literature and Shakespeare.

College credit is available for this course from Seton Hill University.

Teacher Approval

3086 Chamber Ensemble 9, 10, 11, 12 (By audition only!)

Students will be part of a 20 – 25 member-singing group that will involve several performances including Masses, concerts, festivals, and other performances throughout the year. After school and some weekend performances required.

3071 Concert Band 9, 10, 11, 12 Scheduled after school

Concert Band will develop instrumental skills, including sight-reading, proper playing technique, solo and ensemble performance and the ability to read and interpret music notation and terminology. Students must own or rent an instrument.

3090 Marching Band 9, 10, 11, 12 Scheduled after school

Pep Band will enable students to participate in rehearsals, pep rallies, home football games and other band performances. A few summer rehearsals are required.

“Gator Entertainers” 9, 10, 11, 12 (By audition only!)

Geibel’s most exciting singing group! Students will be part of a 12 – 15 member-singing group that will involve several performances at malls, schools, hospitals, concerts and other locations throughout the year. After school rehearsals and some weekend rehearsals are required.

FOREIGN LANGUAGE

GRADUATION REQUIREMENTS – 2 CREDITS

4010 French I 9, 10, 11, 12 (One Credit)

French I introduces the student to common vocabulary, verbs and basic grammatical structures, enabling him/her to converse and comprehend the language at an elementary level. The student will be expected to keep a notebook of class notes and daily homework assignments. Class participation is required.

Prerequisites: 8th grade reading level.

4040 French II 9, 10, 11, 12 (One Credit)

French II is a continuation of the skills learned in French I, with further emphasis on conversation and grammar. Requirements for class participation and homework are similar to those of French I.

4060 French III 10, 11, 12 (One Credit)

French III offers the student a more in-depth study of French culture while continuing the study of grammar and vocabulary. Conversation and composition skills are also emphasized. Recommended for college-bound students.

Prerequisites: “C” average in French II and teacher recommendation.

4080 French IV (Weighted Course) 11, 12 (One Credit)

French IV is an advanced course in grammar, culture, conversation and composition. An introduction to French literature is included. Recommended for college-bound students.

Prerequisites: “C” average in French III and teacher recommendation.

4085 Survey of French Literature (CUSP Weighted Course) 12 (One Credit)

Survey of French Literature is an advanced independent study course in French literature. Emphasis is placed on interpretation of readings and composition skills. Whenever

possible, the student will participate in French IV conversational activities. French IV and Survey of French Literature may be taken concurrently.

College credit is available for this course from Seton Hill University.

Prerequisites: “B” average in French III/IV and teacher recommendation.

4020 Spanish I 9, 10, 11, 12 (One Credit)

Spanish I introduces the student to common vocabulary, verbs and basic grammatical structures, enabling him/her to converse and comprehend the language at an elementary level. The student will be expected to keep a notebook of class notes and daily homework assignments. Class participation is required.

Prerequisites: 8th grade reading level.

4050 Spanish II 9, 10, 11, 12 (One Credit)

Spanish II is a continuation of the skills learned in Spanish I, with further emphasis on conversation and grammar. Requirements for class participation and homework are similar to those of Spanish I.

4070 Spanish III 10, 11, 12 (One Credit)

Spanish III introduces the student to the study of Hispanic culture while continuing his/her study of grammar and vocabulary. Conversation and composition skills are also emphasized. Recommended for college-bound students.

Prerequisites: “C” average in Spanish II and teacher recommendation.

4090 Spanish IV (Weighted Course) 11, 12 (One Credit)

Spanish IV is an advanced course in grammar, culture, conversation and composition. An introduction to Spanish literature is included. Recommended for college-bound students.

Prerequisites: “C” average in Spanish III and teacher recommendation.

4095 Survey of Spanish Literature (CUSP Weighted Course) 12 (One Credit)

Survey of Spanish Literature is an advanced independent study course in Hispanic literature. Emphasis is placed on interpretation of readings and composition skills. Whenever possible, the student will participate in Spanish IV conversational activities. Recommended for college-bound students. Spanish IV and Survey of Spanish Literature may be taken concurrently.

College credit is available for this course from Seton Hill University.

Prerequisites: “B” average in Spanish III/IV and teacher recommendation.

MATHEMATICS

GRADUATION REQUIREMENTS – 3 CREDITS

5020 Algebra I 9, 10, 11, 12 (One Credit)

Algebra I is a comprehensive research-based mathematics curriculum that integrates computer technology and classroom instruction. Students work with the Cognitive Tutor software for approximately 40% of class time and the remaining 60% of class time engaged in collaborative activities and student-centered problems. Course topics include

simplifying algebraic expressions, number patterns, solving and graphing linear equations, inequalities, systems of equations and equations involving absolute value, problem solving using proportional reasoning, analyzing data and simplifying quadratic and exponential expressions.

5030 Geometry 9, 10, 11, 12 (One Credit)

Geometry offers a full year presentation of the basic ideas of plane and solid geometry, with the greater emphasis on plane concepts. Students will gain proficiency in developing formal two-column proofs, theory and application of geometric concepts and develop their symbolic and visual thinking. Algebraic skills are maintained and reviewed and math problems on the SAT are considered.

Prerequisite: Algebra I

5040 Algebra II 10, 11, 12 (One Credit)

Algebra II is a challenging course, which extends the concepts developed in Algebra I. Topics to be covered include: real numbers, solution of linear equations, and inequalities with one, two and three variables, solving statement problems, polynomials and factoring linear and quadratic relations, exponential and complex numbers. Required of college-bound students. Trigonometry/Pre-Calculus Mathematics or College Algebra would follow this course.

Prerequisites: Algebra I, Geometry.

5050 Trigonometry (Weighted Course) 11, 12 1 Semester (1/2 Credit)

Trigonometry centers on the circular functions and their relationship to the trigonometric functions. The course provides extensive work on graphing trig functions and their inverses, as well as identities and solutions of oblique right triangles. Solutions of open sentences in one and two circular functions, polar graphing and complex numbers are also considered. Pre-Calculus Mathematics is the elective that would follow this course.

Prerequisites: Successful completion of Algebra II.

5080 Pre-Calculus Mathematics (Weighted Course) 11, 12 1 Semester (1/2 Credit)

Pre-Calculus Mathematics deals with topics in coordinate geometry, polynomials, exponents, logarithms, and conic sections. (Topics in statistics and probability, matrices and determinants and series and sequences will be covered as time permits.) The algebra of calculus will be considered. Either College Algebra/Statistics or AP Calculus (AB) would follow this course.

Prerequisites: Trigonometry.

5100 AP Calculus AB (CUSP Weighted Course) 12 (One Credit)

The Advanced Placement Calculus AB syllabus is followed in this most rigorous course. Both differential and integral calculus are covered. Tests include questions that reflect the understanding of theory and difficult problems that appear on the Advanced Placement test. A graphing calculator is required. (Ask Mr. Orlando for recommended models.)

College credit is available for this course from Seton Hill University.

Prerequisites: Trigonometry/Pre-Calculus Mathematics with a grade of "B" or higher and teacher recommendation.

5085 College Algebra/Statistics (Weighted Course) 11, 12 (One Credit)

College Algebra/Statistics is a rigorous mathematics course designed to help prepare the student for Calculus. The course will consist of advanced algebraic topics such as: exponential and logarithmic functions, sequences, series, matrices, and determinants. An introduction to statistics and data analysis will be included.

Prerequisites: Algebra II and teacher recommendation.

PHYSICAL EDUCATION, HEALTH & WELLNESS

GRADUATION REQUIREMENTS – 2 CREDITS

Physical Education I, II, III, IV 9, 10, 11, 12

Designed to raise the student's awareness of the importance of being physically fit, this course includes both health-related and skill-related areas of fitness as well as how to attain a healthy level of fitness by using a variety of team and lifetime sports. Sportsmanship, cooperation, safety, personal hygiene and self-discipline will be stressed. Students are encouraged to find enjoyable fitness / recreation activities that can be used throughout their lives.

Physical Education I 9 1 year - alternates with Wellness (½ Credit)

0510 Boys 0515 Girls

Physical Education I focuses on the President's Physical Fitness Test, coordination, throwing/catching, lifetime sports, volleyball, football, dance, cooperative games, cognitive unit on physical fitness and CPR.

Physical Education II 10 1 year - alternates with Health (½ Credit)

0520 Boys 0525 Girls

Physical Education II focuses on softball, soccer, Frisbee, weight training, hockey, lifetime sports, cooperative games and basketball.

Physical Education III 11 (½ Credit)

0530 Boys 0535 Girls

Physical Education III focuses on units from Physical Education I and II depending on season and class size.

Physical Education IV 12 (½ Credit)

0540 Boys 0545 Girls

Physical Education IV focuses on units from Physical Education I and II depending on season and class size.

Wellness 9 1 Year – Alternates with Physical Education (½ Credit)

0600 Boys 0605 Girls

Wellness stresses physical, social, emotional and mental health and the equal importance of each to the maintenance of an optimal quality of life. Topics covered include the

growth and development of the human body, personal health and physical activity, mental and emotional health, first-aid and safety.

Health **10 1 Year – Alternates with Physical Education** **(½ Credit)**
0550 Boys 0551 Girls

Health stresses physical, social, emotional and mental health and the equal importance of each to the maintenance of an optimal quality of life. Topics covered include human reproduction and sexuality, nutrition, drugs, alcohol, tobacco and communicable diseases.

RELIGION

GRADUATION REQUIREMENTS – 4 CREDITS

6010 Religious Studies I - Required **9** **(One Credit)**
The Revelation of Jesus Christ in Scripture

The purpose of this first semester course is to give students a general knowledge of the Sacred Scriptures. Through their study of the Bible they will come to encounter the living Word of God, Jesus Christ. In the course they will learn about the Bible, authored by God through Inspiration, and its value to people throughout the world. They will become familiar with the major sections of the Bible and the books included in each section. The students will pay particular attention to the Gospels where they may grow to know and love Jesus Christ more personally.

Who is Jesus Christ

The purpose of this second semester course is to introduce students to the Mystery of Jesus Christ, the Living Word of God, the second Person of the Blessed Trinity. In this course students will understand that Jesus Christ is the ultimate revelation to us from God. In learning about who he is, the students will also learn who he calls them to be.

6030 Religious Studies II - Required **10** **(One Credit)**
The Mission of Jesus Christ

The purpose of this course is to help students understand all that God has done for us through his Son, Jesus Christ. Through this course of study, students will learn that for all eternity, God has planned for us to share eternal happiness with him, which is accomplished through the Redemption Christ won for us. Students will learn that they share in this Redemption only in and through Jesus Christ. They will also be introduced to what it means to be a disciple of Christ and what life as a disciple entails.

Jesus Christ's Mission Continues in the Church

The purpose of this course is to help students understand that in and through the Church, they encounter the Living Jesus Christ. They will be introduced to the fact that the Church was founded by Christ through the Apostles and is sustained by him through the Holy Spirit. The students will come to know that the Church is the living Body of Christ today. This Body has both Divine and human elements. In this course, students will learn not so much about events in the life of the Church but about the sacred nature of the Church.

6040 Religious Studies III - Required 11 (One Credit)

Sacraments as Privileged Encounters with Jesus Christ

The purpose of this course is to help students understand that they can encounter Christ today in a full and real way in and through the Sacraments, and especially through the Eucharist. Students will examine each of the Sacraments in detail so as to learn how they may encounter Christ throughout life.

Responding to the Call of Jesus Christ

The purpose of this course is to help students understand the vocations of life, how Christ calls us to live. In this course students should learn how all vocations are similar and how they differ. The course will be structured around married life, single life, priestly life, and consecrated life. Students should learn what it means to live life for the benefit of others and the value in considering a vocation in service to the Christian community.

6050 Religious Studies IV - Required 12 (One Credit)

Life in Jesus Christ

The purpose of this course is to help students understand that it is only through Christ that they can fully live out God's plans for their lives. Students are to learn the moral concepts and precepts that govern the lives of Christ's disciples.

Living as a Disciple of Jesus Christ in Society

The purpose of this course is to introduce students to the Church's Social Teaching. In this course, students are to learn how Christ's concern for others, especially the poor and needy, is present today in the Church's social teachings.

Religious Studies IV/Electives 12 (½ Credit each elective must take both classes)

6015 Faith and Justice (Weighted Course)

Faith and Justice further examines Catholic social teaching through the scriptures, relevant Church documents and practical applications to contemporary social issues.

6060 World Religions (CUSP Weighted Course)

World Religions explores the major world religions: Judaism, Christianity, Islam, Hinduism, Buddhism and the religions of China and Japan. The course examines the origins of religion and faith in order to define and describe them as human phenomena. The intended outcome is to deepen students' understanding of the profound influence which religion has demonstrated in shaping human culture and in expressing human needs.

SCIENCE

GRADUATION REQUIREMENTS – 3 CREDITS

7030 Biology 9 (One Credit)

Biology is offered to help students gain a deeper appreciation of all life through the study of various forms of living things. Laboratory investigation, collections and science projects on biological topics provide additional means to this end.

Prerequisite: None

7020 Integrated Physical Science 10 (One Credit)

Integrated Physical Science deals with Physical Science basics including the nature of science and standards of measurements. Energy and motion and the nature of matter are also explored. Elementary physics and chemistry are the basis of this course.

Prerequisite: None

7050 Chemistry I 10, 11, 12 (One Credit)

Chemistry I is the study of matter and the changes that it undergoes. The course deals with the classification and models of matter and the systems and techniques used to describe and predict the changes that it undergoes. The abstract ideas and model interactions are demonstrated and visualized during laboratory periods. Reports, PJAS recommended. **Prerequisites: Biology.**

7055 Chemistry II (CUSP Weighted Course) 11, 12 (One Credit)

Chemistry II places emphasis on providing a broad overview of the principles of chemistry and the reactivity of chemical elements and compounds. It is also hoped that students will gain a sense of chemistry as a field that is dynamic, with important new developments still unfolding. Laboratory will focus on further investigation of classroom topics.

College credit is available for this course from Seton Hill University.

Prerequisites: Biology, Chemistry I and teacher recommendation.

7060 Environmental Science 11, 12 (One Credit)

Environmental Science emphasizes how science relates to everyday life is stressed via knowledge of common practices, including product labeling and product formulation. Elementary chemical theories and laboratory exercises will be included. Elementary biological theories will be discussed. Emphasis will be placed on understanding the various aspects of ecology, environmental biology and conservation. Other topics discussed will be ecosystems, population biology and field biology. Collections, projects and reports are required. **Prerequisites: IPS or Biology.**

7080 Anatomy/Physiology (CUSP Weighted Course) 11, 12 (One Credit)

Anatomy/Physiology includes a detailed study of the structures and functions of the human body. Only students seriously planning to enter a health-related field should consider this course. Emphasis will be placed on various processes involving the overall performance of the body along with specific identification of organs. Dissection may be required.

College credit is available for this course from Seton Hill University.

Prerequisites: Teacher recommendation.

7090 Physics (CUSP Weighted Course) 11, 12 (One Credit)

Physics presents an understanding of the nature of the physical universe and how every event that occurs in the natural world can be seen in physical aspects of time, space, matter, electricity, light and radiation.

College credit is available for this course from Seton Hill University.

Prerequisite: Algebra II (or concurrent Algebra II) and teacher recommendation.

SOCIAL STUDIES

GRADUATION REQUIREMENTS – 3 ½ CREDITS

8010 Ancient History 9 (One Credit)

Ancient History covers the period of time from the development of civilization through the fall of the Roman Empire. Throughout the course, emphasis is placed on learning about the problems and difficulties early man had learning to survive. The development of the concept of man as a unique individual with the ability to overcome obstacles, solve problems and improve his way of life is the overriding objective. The history of ancient man emphasizes the fact that man's early problems and accomplishments are clearly related to the people of the 21st century.

In order to have students aware of news in their contemporary world, current events will also be discussed throughout the year. Every student will be responsible for a current event presentation each nine-week period.

8020 European History 10 (One Credit)

European History is the study of the development of European nations into the most powerful and influential civilization on earth. The fall of the Roman Empire and the force of Christianity, uniting almost all of the people of Europe, are introduced at the start of the class. The blending of Greco-Roman and Germanic traditions within the framework of the Christian church is developed to show the expansion of European culture. Feudalism and the manor economy are presented in the course to show the influence that they had on the political, economic and social order on the continent of Europe. The growth of national monarchies, the Renaissance, and nationalistic attitudes that changed society and government are also studied. Later in the course, the French Revolution and the rise and fall of Napoleon Bonaparte are presented, as well as the last half of the 1800's, which includes nationalism and industrial modernization. The course concludes with the first half of the twentieth century when many forces – including nationalism, militarism, and imperialistic rivalries – propelled Europe into World War I. In order to have students aware of news in their contemporary world, current events will also be discussed throughout the year. Every student will be responsible for a current event presentation each nine-week period.

8025 Honors European History (Weighted Course) 10 (One Credit)

Honors European History will follow the course description of the European History class. As in the European History class, in order to have students aware of news in their contemporary world, current events will also be discussed throughout the year. Every student will be responsible for a current event presentation each nine-week period. Being a weighted class, additional projects will be turned in at various times during the year.

Prerequisites: Cumulative QPA of 3.80, an "A" average in the previous history class and teacher approval.

8040 American History 11 (One Credit)

American History is a requirement for all juniors. The emphasis is on historical events from 1860 to modern times. Studying events surrounding the Civil War, reconstruction and the great American West show how Americans adapted themselves into the new urban industrial society. The course will continue with the study of two major world wars, showing the emergence of the United States as a world leader. Students will see how the events of the nation's past have influenced its present and will influence its future. There will also be emphasis on map knowledge and current events.

8041 Advanced American History – CUSP 11 (One Credit)

Students enrolled in this course must have a sincere commitment to and interest in a comprehensive study of American history. Students will learn to evaluate historical materials' relevance to given interpretive problems, assess their reliability and historical significance, develop scholarship and critical reasoning skills, as well as demonstrate an understanding of the chronological growth of America from colonial times to the modern period.

8050 American Legal System 12 1 SEMESTER (½ Credit)

The American legal system is studied in this one-semester course. By using the inquiry approach, several fundamental questions are considered: What is the nature and purpose of law? How does it work? How are laws made and changed? How does the court system work? Students will have the opportunity to learn how laws affect everyday life, including lawsuits, insurance, defective products, buying and selling homes and renting. This is a very practical course in which all students will learn about laws that will directly affect them now and in the future.

TECHNOLOGY

1067 PRINCIPLES OF MULTIMEDIA 10, 11, 12 (One Credit)

Multimedia Technology is designed to help the student learn about multimedia, understand the fundamental principles for creating multimedia projects, and practice creating multimedia applications. The purpose of this course is to increase the student's understanding of multimedia concepts and skills. The exercises and assignments will be a tool for demonstrating and documenting essential knowledge and competencies.

Students involved or planning to be involved with the school newspaper and / or yearbook should take this course.

LEARNING ASSISTANCE

2010 Language Arts By special arrangement with guidance & administration.

Language Arts is designed to enhance study skills, master reading/language skills and develop life language skills through a current real-life medium. Students will develop study skills, complete vocabulary/word study and literal comprehension. Students will develop essential writing skills to organize, write and edit paragraphs and journal entries. Instruction will be provided by varied methods of presentation and alternative methods of assessment and evaluation.

5005 Applied Math By special arrangement with guidance & administration.

Applied Math is designed to strengthen basic computational skills. Students will develop math concepts and skilled applications of whole numbers, fractions, decimals, equations, percent, data interpretation and problem solving. Instruction will be provided by varied methods of presentation and alternative methods of assessment and evaluation.

GUIDANCE

GRADUATION REQUIREMENTS – ½ CREDIT

0400 Guidance/SAT Prep 11 (½ Credit)

SAT/Guidance informs juniors about the College Board testing process and will practice taking the SAT. Students will be informed of the college selection and application process and will compile a list of colleges to visit over the summer. They will be taught what to accomplish in these visits and how to interview effectively. Students will use the Internet to search for colleges and career information. Students will review their course selections for grade 12. Guest speakers will address students in a variety of careers. Students will experience the job interview process.

2025 Study Skills 9 (½ Credit)

Study Skills will assist students in recognizing and developing the process of using one's own memory system and learning strategies to tackle intellectual tasks. Students will be expected to assume responsibility for their own learning and to realize that academic success is a product of skills and behaviors they can acquire, customize and effectively implement. Some topics that will be discussed in this class include: discovering and using learning styles, processing information into the memory system, time management, goal setting, and preparing for tests.