

Regina High School



Curriculum Guide

2010-11

PURPOSE OF THE GUIDE

Regina High School strives for spiritual, academic, and co-curricular excellence. It also recognizes individual diversity and, therefore, provides a setting for learning, creativity, thinking, and open mindedness - all within the context of a virtue and value-centered environment.

The Curriculum Guide is designed to improve the quality of learning by fulfilling the needs of all students and by enabling them to plan a course of studies for four years. Parents must be involved in helping to choose classes. The school facilitates learning by setting up proper class size, and the number and spacing of classes according to the nature of the subject, the type of instruction, and the level of student ability.

Regina High School is committed to providing all students with a learning environment in which they can become literate and proficient in the ethical use of modern and rapidly advancing technology. Technology is integrated throughout the curriculum in order to help students develop analytical and higher thinking skills that enable them to access and process information. Technology empowers them with the tools to compete and succeed in today's global work environment and to be flexible and adaptable to all new technological changes.

In all cases, it is advisable to check the graduation requirements, the required courses for each year, and any noted prerequisites before making course selections.

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REGINA HIGH SCHOOL REQUIREMENTS FOR GRADUATION

Following the State of Michigan Standards, the minimum requirement for a student who expects to graduate from Regina is 27 credits which must include the following:

- 1/2 credit in Religious Studies for each semester in attendance
(1/2 credit must be in Christian Community Service)
- 4 credits in English
- 4 credits in Mathematics (must complete 1 credit senior year)
- 3 credits in Science (must include 1 credit of Biology and 1 credit of Chemistry)
- 3 credits in Social Studies (must include 1 credit in World History and Geography, 1 credit in U.S. History and Geography, 1/2 credit in Economics, and 1/2 credit in U.S. Govt.)
- 1 credit in Fine Arts (1/2 credit must be earned in a classroom setting)
- 1/2 credit in Computer Applications
- 1/2 credit in Physical Education
- 1/2 credit in Health Education

- 6-1/2 or more credits in electives

The required State of Michigan on-line course work is integrated throughout the curriculum.

REQUIREMENTS FOR COLLEGE ENTRANCE

Although each university/college has final say in admissions decisions, most of Michigan's universities have agreed that students must meet the following requirements:

- 4 years of English
- 4 years of Mathematics
- 3 years of Science (includes 1 year of Biology and 1 year of Chemistry)
- 2 years of History and 1 year of Social Studies

OTHER RECOMMENDATIONS:

- 3 years of a Foreign Language strongly recommended

The standards and requirements for admissions are different for each university and certain programs may have special requirements. Whatever your areas of interest, you should get detailed information about admissions requirements from your counselor or from the proper admissions office. In considering your potential to be a successful student, each university looks at your high school record. Factors such as grade point average, test scores, special abilities, scholastic activities, community service, and work experience are also important.

ENGLISH DEPARTMENT

- 012 9 English 9/Composition I (1 Credit)** places emphasis on the written word as an important form of communication. Grammar, usage, vocabulary, and punctuation are reinforced through the writing of narrative and descriptive compositions. Introduction to the MLA (Modern Language Association) style and documentation is presented. Knowledge is acquired and appreciation of the various literary genres is encouraged through the study of the essay, novel, drama, short story, and poetry. Elements of speech communication skills are covered.
- 015 9 Honors English 9/Composition I & II (1 Credit)** develops in-depth grammatical usage and other skills needed to write narrative, descriptive, expository, comparison and contrast, division and classification, definition, and persuasion compositions. Research techniques are introduced. Various literary genres are analyzed. Emphasis is placed on the reading of additional novels. Elements of speech communication skills are covered.
Prerequisite: Counselor recommendation.
- 022 10 American Literature/Composition II (1 Credit)** presents a study of American Literature chronologically from the Colonial Period to Modern Times. Key themes, ideas, literary periods, and the genres they represent provide the basis for the course. The techniques of literature-based writing are studied and oral presentation skills are honed.
- 026 10 Honors American Literature/Composition III (1 Credit)** studies the literary trends from the chronological order of American writers. The writing focus is on creating essays with the divided thesis and universalized introductions. The production of the argumentative essay, critical analysis essay, and usage of MLA style for documentation are included. Oral presentations are also practiced in this course. **Prerequisite:** A minimum grade of "B" is required in both semesters of Course 015 or teacher recommendation.
- 042 11 World Literature/Composition III (1 Credit)** focuses on the literature of different countries and cultures. Common themes of humanity are analyzed. The literature of ancient Greece and Rome is included along with Asian, African, British, and American selections. The writing focus is on creating essays with the divided thesis and universalized introductions. The production of the argumentative essay, critical analysis essay, and usage of MLA style for documentation are included along with oral presentations of selected assignments.
- 034 11 Honors World Literature/Research Paper (1 Credit)** offers a broad spectrum of literature for discussion and analysis with emphasis on British writers. Writing assignments are based in part on literary criticism. Emphasis is on the skills involved in writing and documenting a longer research paper. Writing one research paper in a step-by-step process using the MLA style for documentation is required. Speech presentations are also part of this course. **Prerequisite:** A minimum grade of "B" is required in both semesters of Course 026 or teacher recommendation.
- 086 12 Honors Advanced Placement Literature and Composition/Language and Composition (1 Credit)** stresses the careful reading of works of literary merit in order to develop critical standards for literary appreciation. Written assignments focus on the analysis of these works. This course helps students develop skills of composing college-level prose. Modes of discourse, including oration, as well as aims of discourse and rhetorical strategies are studied. The Advanced Placement Literature and Composition Examinations are taken in May. **Prerequisite:** A minimum grade of "B" is required in both semesters of Course 034 or teacher recommendation.

- 060 Journalism (1/2 Credit)** focuses on the fundamentals of gathering and reporting news. Professional ethics and laws that apply to journalists are studied. Layout design, type, and photography are utilized to produce effective presentations in print media. The school newspaper, the Scepter, is produced using desktop publishing software.
- 11-12**
- 030 Speech (1/2 Credit)** develops both interpersonal and public communication skills. Topics covered include listening skills; non-verbal cues; overcoming stage fright; study and practice performing a variety of speech styles such as an introduction, a demonstration, an interpretation of literature, an informative speech with effective use of PowerPoint, and a persuasive message; and peer and self critiques. **Note:** This class can be used to fulfill a Fine Arts requirement.
- 10-12**
- 075 Contemporary Authors/College Writing (1/2 Credit)** presents a study of major works of selected contemporary writers. The writings are critiqued and analyzed for method, message, and literary merit. Literary criticism and analysis are part of the college writing required for this course. Students are required to develop class presentations of their work.
- 12**
- 071 Creative Writing (1/2 Credit)** develops basic writing techniques that include close observation, creative word choice, selection of point of view, and establishment of tone and style. Original writings in a variety of poetry and prose styles are explored and may be submitted for publication.
- 12**
- 076 Literature of the Screen/College Writing (1/2 Credit)** studies several different aspects of film and literature and their relationship to each other. A brief history of the art and people of film, the technique of filmmaking, and the process of adapting a piece of literature for screen presentation are covered. Works of literature are studied in order to gain insight into the style of the writer. Differences and similarities between literature and film are examined and analyzed in written assignments which are then presented to the class in a variety of creative forms.
- 12**

FINE ARTS DEPARTMENT

- 515** **Art I (1/2 Credit)** is a studio/lecture course designed to meet the needs of students with different skill levels. Students demonstrate the ability to apply learned skills in various media encompassing both two-dimensional and three-dimensional projects. Art history is incorporated into all lessons.
- 9-12**
- 520** **Art II (1/2 Credit)** is a studio/lecture course that focuses on two-dimensional and three-dimensional elements and principles of design. Students take an analytical approach to applying design, color, line, shape, value, and texture in various media that include ink, oil pastels, pencils, acrylic paints, water colors, and charcoal. Art history is incorporated into all lessons. **Prerequisite:** Course 515.
- 10-12**
- 525** **Art III (1/2 Credit)** is a studio/lecture course that continues the examination of two-dimensional and three-dimensional elements and principles of design through an in-depth study of complex techniques. The process of print making is studied. Art history is incorporated into all lessons. **Prerequisite:** Course 520.
- 11-12**
- 526** **Directed Study (1/2 Credit)** places emphasis on the study of composition as an extension of the elements and principles of design explored in prior art classes. Students experiment with self-selected media and projects of interest. The student works one-on-one with the teacher. At least three projects, one research paper, and a working portfolio are required. **Prerequisite:** Course 525 or teacher recommendation.
- 12**
- 582** **Theater Arts (1/2 Credit)** provides students with an introduction to theater and performance. Topics covered include theater history, production, theater direction, and technical theater. Students are expected to create designs for sets, lights, and make-up; explore writing and acting; and participate in both individual and group performance.
- 9-12**
- 575** **Advanced Forensics (1/2 Credit)** affords an opportunity to receive one-half (1/2) credit for two or more years of participation in forensics team activities. Criteria of rehearsal schedules, team activities, and tournament participation must be met. The team coach certifies credit in writing. Credit granted for Advanced Forensics is not counted in the 27 credits needed for graduation.
- 10-12**
- 590** **Advanced Performing Arts (1/2 Credit)** affords an opportunity to receive one-half (1/2) credit for two or more years of participation in a professional or nationally recognized organization of performing arts. A portfolio must be presented for review by a panel of Fine Arts staff. A letter of reference from an authorized professional instructor should accompany the portfolio. Credit granted for Advanced Performing Arts is not counted in the 27 credits needed for graduation.
- 10-12**
- 570** **Concert Band (1/2 or 1 Credit)** is open to both beginning and experienced musicians. Students learn and develop instrumental music skills through classroom practice, as well as performance opportunities. Band members will perform at various school functions such as concerts, pep rallies, Powderpuff, the school musical, solo recitals, and recruiting activities.
- 9-12**

- 591** **Show Choir (1/2 Credit)** is an audition-based ensemble comprised of advanced musicians with developed voices, mature dance skills, and strong work ethics. Students are involved in heavy rehearsal and performance schedules. This group meets at DeLaSalle High School. One-half (1/2) credit is earned for two or more years of participation. The DeLaSalle faculty member in charge certifies credit in writing. Credit granted for Show Choir is not counted in the 27 credits needed for graduation.
- 562** **Concert Choir (1/2 Credit)** introduces vocal and choral techniques, ear training, beginning bell techniques, and the study of various styles of choral literature. Attendance for all performances given throughout the year, including various liturgies, is mandatory. Membership is open to all students who have the desire to sing. No solo singing is required. Students develop vocal skills, basic music theory, and sight-reading skills.
- 563** **Ensemble Choir (1/2 Credit)** is a performing group that is specifically designed to represent Regina High School. Students are expected and required to exhibit the highest possible level of performance and professionalism both collectively and individually. Emphasis is on vocal and choral techniques, small ensemble singing, and the study of various types of choral literature, as well as continued development in music theory and sight reading skills. Attendance for all performances given throughout the year is mandatory. Students also perform for Regina liturgies and attend the MSVMA solo and ensemble festival in March. **Prerequisite:** Audition and/or Concert Choir.

FOREIGN LANGUAGE DEPARTMENT

- 410** **French I (1 Credit)** presents the fundamentals of the language through functional dialogues and real-life situations, pattern practices, and audiotapes. Through authentic materials sequentially arranged, automatic response and self-expression are cultivated. Appreciation of French culture is encouraged through supplementary lessons on French civilization. **Prerequisite:** Counselor recommendation.
- 9-12**
- 420** **French II (1 Credit)** complements French I with utilization of the same language techniques, but affords an opportunity to increase and perfect language skills with an intense concentration of irregular verbs, extended vocabulary, and advanced grammatical structures. An emphasis is on oral communication and the promotion of reading, writing, and listening skills. The study of French culture is continued.
- 10-12**
- 430** **French III (1 Credit)** emphasizes more advanced aspects of French grammar, including extended verb tenses and formations and their use in sentence structure. Short stories and articles in French provide opportunities for literary analysis and topics for compositions. The study of French culture is broadened in these readings. The ability to speak French is enhanced with a variety of conversational techniques.
- 11-12**
- 440** **French IV (1 Credit)** reviews grammatical structures and builds on previously learned skills to strengthen and perfect over-all performance. The oral component of the language is emphasized. Audio skills are enhanced with varied performance techniques. Grammar lessons are presented and discussed in French. Reading, conversation, and writing flow from the short novels and general topics. The study of French culture is expanded.
- 12**
- 452** **Spanish I (1 Credit)** presents the fundamentals of speaking, listening, reading, and writing skills. Basic grammatical structures are introduced and applied in everyday classroom use. Various cultural aspects of the Spanish-speaking world are explored. **Prerequisite:** Counselor recommendation.
- 9-12**
- 462** **Spanish II (1 Credit)** strengthens the listening, speaking, reading, and writing skills developed in Spanish I. Students continue to build vocabulary and grammatical structures in order to advance to an understanding of more complex structures. Students practice oral communication skills daily. Cultural aspects of Spanish-speaking countries are studied.
- 10-12**
- 472** **Spanish III (1 Credit)** reinforces the basic skills and grammatical concepts learned in Spanish I and II. The subjunctive and its uses are presented. Short stories are read and analyzed in Spanish followed by conversation and written practice on story-related topics. Supplementary lessons cover various aspects of Hispanic culture.
- 11-12**
- 482** **Spanish IV (1 Credit)** reviews grammatical concepts with emphasis on the finer points of grammar including the formation and uses of the subjunctive. Short contemporary Hispanic stories are read and analyzed. Written compositions, class discussion in Spanish, and vocabulary drills accompany the study of the short stories. The study of Hispanic culture is continued. The Advanced Placement Spanish Language Examination can be taken in May.
- 12**
- 405** **Mandarin Chinese I (1 Credit)** teaches basic speaking skills through cultural immersion. Students learn the necessary verbal skills associated with various facets of Chinese culture: food, lifestyles, beliefs, and traditions. **Prerequisite:** Counselor recommendation.
- 9-11**

407 **Mandarin Chinese II (1 Credit)** expands the language and grammar skills begun in
10-12 Mandarin Chinese I. Listening and speaking skills are strengthened through pronunciation drills and dialogues created and recited by students. Reading and writing skills are increased with further vocabulary development. The study of Chinese culture continues.

Prerequisites: In order to advance in a language, a "C" average in both semesters of the previous course is necessary.

HEALTH/PHYS. ED. DEPARTMENT

- 625** **Physical Education (1/2 Credit)** offers a variety of activities including physical fitness, speed ball, weight training basics, volleyball, floor hockey, and cooperative games. Emphasis is placed on strength and cardiovascular endurance. The course is graded on a Pass/Fail basis.
- 9**
- 610** **Health (1/2 Credit)** explores adolescent growth and development. The hazards of tobacco, alcohol, and drugs are studied. Issues discussed include social, mental, and emotional health; communicable diseases; the importance of proper nutrition and physical fitness; and ecology. The practical applications of first aid principles are covered.
- 10**
- 656** **Advanced Team Sports (1/2 Credit)** affords an opportunity to receive one-half (1/2) credit for two or more years of participation in a particular interscholastic sport or for participation in two interscholastic sports in the same year. The team coach or Athletic Director certifies credit in writing. Credit granted for Advanced Team Sports is not counted in the 27 credits needed for graduation.
- 10-12**
- 670** **First Aid/CPR (1/2 Credit)** presents information on the proper administration of First Aid care and develops skills necessary to perform basic life support and CPR. Hands-on classroom practice provides opportunities to react properly in accident and/or life-threatening situations. The American Red Cross guidelines are followed. First Aid and CPR certification is awarded upon successful completion of the course.
- 11-12**
- 654** **Kinesiology (1/2 Credit)** studies the techniques involved in the performance of human movement skills along with developing a basic knowledge of physical fitness and weight training. Through a study of anatomy and physiology, students learn basic muscle structure and function, proper techniques for weight training and development of cardiovascular fitness, and the basic principles of setting up a personal fitness program to improve body toning and overall health. This course cannot be taken for science credit.
- 12**

MATHEMATICS DEPARTMENT

- 185** **Honors Algebra I (1 Credit)** emphasizes the structure of algebra with an in-depth coverage of algebraic topics. Functional relationships provide the basis for equations. Data organization, numerical patterns, and relationships are presented to increase understanding of functions. Focus is on learning to express these relationships orally, pictorially, graphically, and symbolically. **Prerequisite:** Department recommendation.
- 9**
- 115** **Algebra I (1 Credit)** covers topics including the real number system and its properties, solving and graphing one- and two-variable equations and inequalities, polynomials, and problem solving. **Prerequisite:** Department recommendation.
- 9**
- 187** **Honors Geometry (1 Credit)** focuses on a theoretical study of the concepts of Euclidean plane and solid geometry, inductive and deductive reasoning, and transformational and analytical geometry. An axiomatic and rigorous approach for analyzing proofs is introduced. Also included is the study of right triangle trigonometry, laws of sines and cosines, and applications of trigonometry. **Prerequisite:** A minimum grade of "B" is required in both semesters of Course 185 or teacher recommendation.
- 9-10**
- 172** **Geometry (1 Credit)** maintains and integrates algebraic skills and concepts. Geometric principles are applied to real-world situations through modeling, interdisciplinary connections, and deductive arguments for learning critical-thinking and problem-solving skills. **Prerequisite:** Course 115.
- 10**
- 171** **Basic Geometry (1 Credit)** covers the fundamentals of plane geometry that include congruent triangles, polygons, circles, Pythagorean Theorem, area, and volume. Basic proofs and constructions are covered. **Prerequisite:** Course 115 and teacher recommendation.
- 10**
- 186** **Honors Algebra II (1 Credit)** continues to refine the understanding of the language of algebra, structure of the number system, and the manipulations of algebraic equations. Mathematical principles that are needed for the advanced study of mathematics, including sequences, series, and limits, are covered. **Prerequisite:** A minimum grade of "B" is required in both semesters of Course 187 or teacher recommendation.
- 10-11**
- 155** **Algebra II (1 Credit)** uses functions as a unifying theme. Topics covered are matrices; linear, exponential, logarithmic, quadratic, radical, polynomial, and rational functions; sequences and series; and probability. Graphing is emphasized and relationships between graphs and equations are developed. Technology is used as a problem-solving tool. **Prerequisite:** A minimum grade of "C" is required in both semesters of Course 172.
- 11**
- 151** **Basic Algebra II (1 Credit)** studies the real number system, relations and functions, graphing, quadratic functions, polynomials, inequalities, and systems of equations. **Prerequisite:** Course 171 or 172 and teacher recommendation.
- 11**
- 163** **Honors Trigonometry/Pre-Calculus (1 Credit)** studies in detail polynomial, rational, exponential, logarithmic, and circular trigonometric functions and their graphs. It introduces, on an informal basis, the ideas of limits, continuity, and differentiation. **Prerequisites:** A minimum grade of "B" in both semesters of Course 186 or teacher recommendation.
- 11-12**

- 161** **Trigonometry/Pre-Calculus (1 Credit)** presents an in-depth study of circular functions and the trigonometric functions of right triangles. Solving identities, graphing trigonometric functions, and application of the laws of sines and cosines in solving triangles are covered. Graphing and its relationship to continuity and limits are emphasized. Derivatives of polynomials and their applications are introduced. **Prerequisite:** A minimum grade of "C" is required in both semesters of Course 155.
- 191** **Honors Advanced Placement Calculus AB (1 Credit)** develops the basic concepts of calculus, limits, and continuity. Derivatives, differentials, and integrals and their applications are covered in depth. A wide variety of mathematical problems are examined including area, volume, and related rates. The Advanced Placement Calculus AB Examination is taken in May. **Prerequisite:** A minimum grade of "B" is required in both semesters of Course 163 or teacher recommendation.
- 157** **Senior Math (1 Credit)** covers topics including geometry, trigonometry, and probability and statistics. The course also contains an algebra component that studies real numbers, linear equations and inequalities, polynomials, and linear, quadratic, exponential and logarithmic functions. This course is closed to students who have taken any Honors math course. **Prerequisite:** Course 151 or 155 and teacher recommendation.

RELIGIOUS STUDIES DEPARTMENT

- 810** **Understanding the Catholic Faith (1/2 Credit)** assists high school freshmen in developing a "living, explicit, and active faith through formation in doctrine and the experience of Christian living" (Code of Canon Law #773). Using the structure of the Creed, this course discusses the doctrines of the Catholic faith and communicates the faith based on the four pillars of the Catechism of the Catholic Church; namely, creed, liturgy and sacraments, morality, and prayer. An attempt is made to provide a common vocabulary and a unified vision of the whole of the Catholic Tradition.
- 9**
- 820** **Christian Morality (1/2 Credit)** deals with the basic Christian principles upon which moral decisions are based and the ways in which these principles can be applied to life. Conscience, law, and Jesus are explored as moral guides to Christian conduct. The discernment of how to live out one's faith as a disciple of Christ is nurtured through practice in moral decision-making.
- 9**
- 812** **Old Testament (1/2 Credit)** provides a comprehensive study of the Old Testament scriptures using four perspectives: literary interpretation, historical interpretation, theological interpretation, and personal challenge. The revelation and understanding of God is traced through a study of the Pentateuch, historical and prophetic writings, and Wisdom literature.
- 10**
- 822** **New Testament (1/2 Credit)** focuses on how the books of the New Testament were written, for whom they were written, and the message of Jesus for the people of the time and for adolescents today. As students study the four versions of the Gospel, the Epistles, the Acts of the Apostles, and the Book of Revelation, they are encouraged to think and talk about their faith.
- 10**
- 833** **Christian Social Justice (1/2 Credit)** deals with the principles of Catholic social teaching as they apply to the development of a just society. Issues examined are the right to life, prejudice, racism, poverty, peace, labor, and the environment.
- 11**
- 837** **The Church: Our Story (1/2 Credit)** provides a means for understanding the interrelationship of the various components of the Catholic Church. It emphasizes the living Church and what it is in the present moment. The course is constructed around models of the Church such as People of God, Servant, and Sacrament which represent Church practice and belief. Each model has an historical component that traces its theme through major periods of Church history and provides insight as to how the Church has come to its contemporary expression.
- 11**
- 840** **Christian Lifestyles (1/2 Credit)** presents modes of living available to the contemporary Christian woman. Marriage and family life, and the single and consecrated lifestyles are examined. Lifestyle issues and choices are studied in light of the Gospel and the teaching of the Catholic Church.
- 12**
- 875** **World Religions (1/2 Credit)** presents a comparative study of the major religions of the world. Emphasis is placed on the similarities and differences between Catholicism and the other religions. The course may be taken by seniors for elective credit.
- 12**

880 **Christian Community Service (1/2 Credit)** is designed to help students put into practice the Christian teaching of service to others. Through the Christian Community Service program, students are required to commit their time and talents to assist others. A written component in which students reflect on and connect their service to both their faith lives and the Religious Studies curriculum is submitted to the Religious Studies teacher each semester. Credit is issued in the second semester of the senior year.

9-12

All students must complete 60 hours of community service as part of the requirement for graduation from Regina High School. Students begin the service requirement in the freshmen year and complete the necessary hours during the senior year. Requirements for transfer students are determined on an individual basis.

SCIENCE DEPARTMENT

- 220**
9 **Biology (1 Credit)** uses the scientific method and studies biochemistry, cells, microorganisms, photosynthesis, respiration, genetics, DNA/RNA, mitosis, meiosis, ecosystems, evolution, classification, and the human body. Investigative work in a laboratory setting reinforces critical and analytical thinking.
- 210**
9 **Honors Biology (1 Credit)** uses the scientific method and studies biochemistry, cells, microorganisms, photosynthesis, respiration, genetics, DNA/RNA, mitosis, meiosis, ecosystems, evolution, classification, and the human body. Investigative work in a laboratory setting reinforces critical and analytical thinking. In addition, students complete a research project that includes the development of their own experiments and the writing of a scientific paper. **Prerequisite:** Counselor recommendation.
- 250**
10 **Physical Science (1 Credit)** introduces the fundamental behavior of matter and energy. Basic concepts of motion, heat and temperature, waves and sound, electricity, and light are presented. Basic chemistry principles regarding the structure and states of matter, the atom, its electronic configuration, bonding, and chemical reactions are studied. Reasoning skills are developed and hands-on laboratory activities are used to reinforce theoretical concepts.
- 265**
10 **Honors Chemistry (1 Credit)** is designed for students preparing to major in Science or Engineering at the university level. Critical thinking and the scientific inquiry methods are used in laboratory investigations to study chemistry concepts and principles. Topics include the composition of matter, the atom and electron configuration, chemical formulas and reactions, stoichiometry, gas laws, solutions, and organic chemistry. Proficiency in solving formulas, interpreting and solving word problems, scientific notation, conversions, proportions, and solving for a variable in an equation are an integral part of the course. **Prerequisite:** A minimum grade of "B" is required in both semesters of Course 210 and math courses or teacher recommendation.
- 271**
11 **Chemistry (1 Credit)** examines the composition of substances and the changes they undergo. Major emphasis is on the structure and states of matter, reactions, the atom and its electronic structure, bonding, solutions, and acid-base theory. Through experimentation, observation, and measurement in the laboratory, chemical concepts and principles are developed and data from experiments are analyzed. Scientific calculations using algebraic skills are applied.
- 260**
11-12 **Anatomy and Physiology (1 Credit)** provides an in-depth study of anatomical structures and the physiology of the systems of the human body. Use of visual aids, clinical cases, and the mechanisms of diseases facilitate learning and understanding. The required dissection of a fetal pig or cat in a laboratory setting is used as a culminating activity for a comparative anatomical study. **Prerequisite:** A minimum grade of "B" is required in both semesters of Course 220 or a minimum grade of "C" is required in both semesters of Course 210.
- 215**
11-12 **Honors Advanced Placement Biology (1 Credit)** is designed to meet the objectives of an introductory college-level biology course. Topics include biochemistry, cell physiology, molecular biology, ecology, genetics, plant and animal anatomy, and physiology. Students are involved in extensive laboratory work. The Advanced Placement Biology Examination is taken in May. **Prerequisite:** A minimum grade of "B" is required in both semesters of Courses 210 and 265 or teacher recommendation.

- 281**
11-12 **Honors Advanced Placement Chemistry (1 Credit)** presents the equivalent of the general chemistry course taken during the first year of college. Students attain a depth of understanding of fundamentals and reasonable competence in dealing with chemical problems. The course includes topics that emphasize chemical calculations, mathematical formulation of principles, and laboratory procedures and investigations. The Advanced Placement Chemistry Examination is taken in May. **Prerequisite:** A minimum grade of “B” is required in both semesters of Course 265 or a minimum grade of “A” is required in both semesters of Course 271 and teacher recommendation.
- 283**
12 **Honors Physics (1 Credit)** covers the basic principles of mechanics, waves, sound, and magnetism. Demonstrations and laboratory procedures are used to reinforce theoretical concepts. Rigorous application of trigonometric and higher mathematical skills are applied to topics covered. This course is intended for students who want to pursue careers in the medical and engineering fields that require a background in physics. **Prerequisite:** A minimum grade of “B” is required in both semesters of Course 265 or a minimum grade of “A” is required in both semesters of Course 271 and teacher recommendation, and a “B” average in 161/concurrent enrollment.
- 275**
12 **Earth Science (1 Credit)** studies the earth systems, the solid earth, the fluid earth, and the earth in space and time. Topics studied include geology, oceanography, astronomy, meteorology, and the conservation of natural resources and its impact on future generations are discussed. Scientific inquiry labs involve students making graphs, tables, and/or charts explaining and predicting observations that illustrate an Earth Science principle. This course is closed to students who have taken Course 210 or 265.
- 285**
12 **Introduction to Clinical Medicine (1/2 Credit)** surveys health professions in a hospital setting. Topics covered include methods of diagnosis and treatment, medical and surgical subspecialties, hospital administration, and support professions. Tours may involve laboratories, operating rooms, intensive care units, and specialty areas. Classes meet at St. John Hospital during the second semester from 3:30 PM – 5:30 PM on Tuesdays and Thursdays. **Prerequisite:** A “B” average in Course 220, 271, and 260/or current enrollment.

SOCIAL STUDIES DEPARTMENT

- 314**
9 **World History and Geography (1 Credit)** examines Western Civilization from the classical period through World War I. Key historical concepts and events are clarified. Analytical and critical-thinking skills are developed. The impact of geography on key historical events is examined.
- 318**
9 **Honors World History and Geography (1 Credit)** provides an in-depth study of Western Civilization from the classical period through World War I. A conceptual and analytical study of historical events is emphasized. The impact of geography on key historical events is examined. **Prerequisite:** Counselor recommendation.
- 322**
10 **U.S. History and Geography (1 Credit)** reviews key events and concepts in United States history through the Civil War. The emphasis of the course is on the examination of key historical events, time periods, and concepts from Reconstruction (1877) to the present and the impact they had in shaping the American experience.
- 345**
10 **Honors Advanced Placement European History (1 Credit)** covers the time period between the Renaissance and continues to the present. Significant people, places, events, movements, time periods, and themes are analyzed. Historical readings and primary source documents are used to help students develop their critical thinking and analytical skills in writing. The Advanced Placement European History Examination is taken in May. **Prerequisite:** A minimum grade of "B" is required in both semesters of Course 318 or teacher recommendation.
- 375**
11 **Honors Advanced Placement U.S. History (1 Credit)** stresses the careful reading and analysis of the history of our nation. Primary and secondary sources and suggested readings are utilized to enhance a conceptual and thematic approach to the units of study. Analytical and critical thinking skills are applied. Tools and methodologies of historical research are taught to prepare individual written assignments. The Advanced Placement U.S. History Examination is taken in May. **Prerequisite:** A minimum grade of "B" is required in both semesters of Course 345 or teacher recommendation.
- 330**
11 **American Government (1/2 Credit)** studies the three branches of the U.S. government. The operations of local and state governments are examined with a focus on national government. Other topics discussed are political parties, pressure groups, voter behavior, and public opinion.
- 383**
11 **Honors Economics (1/2 Credit)** examines fundamental components of macro and micro economic concepts, theories, and applications. In so doing, a solid foundation for college economics is provided. Emphasis is placed on market functioning, business and labor, money and banking, and measuring economic performance. **Prerequisite:** A minimum grade of "B" is required in both semesters of Course 345 or teacher recommendation.
- 382**
11 **Economics (1/2 Credit)** introduces key economic concepts and principles that provide a solid foundation for any introductory college economics course. Topics include the definition of economics, the concept of scarcity, supply and demand, costs, prices, and output in a competitive market. In addition, business cycles measuring national income, the concept of money, and the role of business, labor, and government in the economy are explored.

- 379**
12 **Contemporary Global Issues (1/2 Credit)** focuses on current world problems; their historical, political, social, and economic roots; and an exploration of differing viewpoints and potential solutions. Topics studied include human rights, hunger, economy and trade, environment, science, and technology.
- 380**
12 **Psychology (1/2 Credit)** covers the history of psychology, basic principles of learning, theories of memory, the development of human behavior, and personality disorders and their treatment. Discussions and experiments supplement the text.
- 376**
12 **Sociology (1/2 Credit)** presents a critical examination of society and its institutions. Areas of study include sociological history, early sociologists, and the development of theoretical perspectives. Similarities and differences between cultures, variations within cultures, and the various institutions within society are analyzed. The study of current social problems that impact American social institutions is incorporated throughout the course.
- 384**
12 **Honors Advanced Placement Psychology (1/2 Credit)** examines human behavior in terms of motivation, maturation, learning, altered states of consciousness, personality theories, illness, and therapy. Research on theories and other relevant topics of psychology are stressed. The Advanced Placement Psychology Examination is taken in May. **Prerequisite:** A minimum grade of “B” is required in both semesters of Course 375 or teacher recommendation.
- 385**
12 **Honors Advanced Placement U.S. Government and Politics (1/2 Credit)** presents a college-level approach and understanding of the U.S. government. Students acquire knowledge of facts, concepts, and theories pertaining to U.S. government and politics; understand typical patterns of political processes and behavior and their consequences; and analyze and interpret data and relationships in U.S. government and politics. The Advanced Placement U.S. Government and Politics Examination is taken in May. **Prerequisite:** A minimum grade of “B” is required in both semesters of Course 375 or teacher recommendation.

TECHNOLOGY DEPARTMENT

701
9

Computer Applications (1/2 Credit) develops skills needed in typical office suite software. Students are required to touch type at a rate of 30 adjusted words per minute and to be proficient in word processing, spreadsheet, and presentation software. Skills learned are used in other curriculum areas and include operating system and file management on a network, productive Internet search techniques, MLA-style report writing, and information presentation. Students gain an understanding of the ethical, cultural, and societal issues related to technology as well as practice responsible use of technology systems, information, and software. All incoming freshmen are required to take the course to ensure they have the same software skill set for cross-curricular implementation. Students are introduced to the Michigan Virtual University's MyDreamExplorer career planning website to begin their Educational Development Plans.

703
10-12

Computer Publications (1/2 Credit) offers desktop publishing skills with comprehensive exposure to Adobe InDesign CS3 desktop publishing software. Additional experience in combining Microsoft Word, Publisher, and PowerPoint processes with InDesign provides students with a broad-based background in this technology. Original and template-designed newspapers, brochures, and other business-oriented publications are produced utilizing appropriate software packages. Students use scanners, digital cameras, other available technology equipment, and the Internet to create publications. Activities involving combining file-types, file and network usage, Windows Vista Business operating system, and Internet usage are reinforced. Completion of this course prepares students for participation in Journalism and Yearbook courses. **Note:** One-half (1/2) credit can be used to fulfill a Fine Arts requirement with Counselor approval. **Prerequisite:** Course 701.

705
10-12

Computer Business Applications (1/2 Credit) provides experience in Office suite software commonly used in business through instruction in Microsoft Excel 2007 spreadsheet software skills and concepts. Students write formulas, use functions, learn to chart data, and format worksheets. In addition to Excel, students learn to configure the Microsoft Access database application to create data tables, forms, and reports. Course activities integrate Office documents and practical exercises supporting school staff may be required periodically. **Prerequisite:** Course 701.

GENERAL ELECTIVES

- 717 9 Freshman Seminar (1 Credit)** improves proficiency in reading comprehension, writing competency, and study skills in all content areas. Reading instruction emphasizes strategies including determining main ideas, identifying supporting details, constructing meaning, analyzing cause and effect, drawing conclusions, and vocabulary development. Writing practice reinforces grammar and punctuation in developing good sentence structure. Topics that build effective study habits include goal setting, time management, appropriate study environment, note taking, outlining, and test taking.
Prerequisite: Counselor recommendation.
- 738 11-12 Independent Living (1/2 Credit)** offers information and self-directing skills for the young adult entering college and/or living independently. Topics include career skills (self-assessment; investigating, researching and choosing a career; career pathing; job searches; job applications; cover letters; resume writing; and interview skills), personal banking, credit, loans, budgeting, taxes, stress management, and housing and transportation options.
- 722 11-12 Marketing and Management (1/2 Credit)** introduces the key concepts, principles, and functions of marketing. The course covers aspects of marketing, advertising, production, inventory management, sales, and the costs of introducing a new/updated product into the marketplace.
- 753 11-12 Yearbook Production (1/2 Credit)** applies the basics of magazine format to the production of the school yearbook, the Crown, using desktop publishing software. Skills in feature writing, photography, creative layout design, and marketing are acquired and utilized. **Note:** One-half (1/2) credit can be used to fulfill a Fine Arts requirement with Counselor approval.
Prerequisite: Yearbook Advisor recommendation.
- 752 12 Yearbook Management** is an editorial position earned through competency, commitment, and leadership. The job description involves planning the coverage of the yearbook and layouts, managing ad sales and production, monitoring deadlines, checking proofs, and overseeing file maintenance. **Prerequisite:** Course 753.

Students with necessary skills and qualifications can elect an Assistant or Service Program. Credit is earned as in any regular course. All programs need the consent of the person in charge. Credit granted for the Assistant Programs are not counted in the 27 credits needed for graduation.

- 790
9-12** **Athletic Team Assistant** offers students an opportunity to earn one-half (1/2) credit for two or more years of work with an interscholastic team or one year with different interscholastic teams in the same year. Students are involved in calculating and compiling individual and team statistics per game, per week, mid-season, and the final totals for the season. Attendance at all home and away games, matches, and meets for junior varsity and/or varsity teams is required. Accurate records of all statistics are given to the respective team coaches.
- 782
12** **Computer Assistant** works under the direction of the Network Administrator in supporting and maintaining the school computer network and school website. In this capacity, the student can be involved in basic hardware and software maintenance, staff assistance, and various clerical duties as determined by the Network Administrator.
- 783
12** **Library Assistant** performs general library work including the circulation and indexing of all materials. Audiovisual materials, guides, and equipment are prepared for distribution. Under the direction of the librarian, the assistant helps with the use of the copy machines, computers, and printers.
- 751
10-12** **Light and Sound Technology Assistant** provides hands-on experience in working with all sound and light equipment. Crew chiefs are selected from those who have rendered two years of service or demonstrated keen knowledge of school equipment. Crew chiefs assist in training new personnel and act as liaisons to event coordinators. One-half (1/2) credit is earned for two years of participation. The faculty/staff member in charge certifies credit in writing.
- 784
12** **Office Assistant** helps in the Attendance, Guidance, Public Relations, and Campus Ministry offices with general routine clerical work that includes filing, in-school errands, circulation of messages, and use of the copy machine.
- 786
12** **Physical Education Assistant** serves as a gym aide, official, and a demonstrator of techniques needed in the various activities. Under the direction of the teacher, the assistant helps in routine clerical work.