

## COURSE GUIDE

### Computer/Business Courses

#### **Keyboarding Applications (College Preparatory)**

**Description:** Students will develop proficiency in keyboarding using proper techniques and strive to improve speed and accuracy. As keyboarding skills improve, word processing skills will be introduced. The course will also include applications such as Internet access and Microsoft Office.

**Prerequisite:** 7<sup>th</sup> grade standing

**Credit:** Junior High credit

#### **Computer Science I (College Preparatory)**

**Description:** This course is designed to prepare students to take the core level Microsoft Office User certification exam. Students will learn skills in using the Microsoft Office Suite applications Word, Excel, Access, PowerPoint, Moviemaker, and Publisher. Good keyboarding skills are required. This course is a follow up to the recommended Keyboarding Applications.

**Prerequisite:** Keyboarding Applications

**Credit:** 1

#### **Multimedia (College Preparatory)**

**Description:** This course is designed to prepare the student in the field of multimedia. It combines aspects of photography and video to make compelling visual presentations. This class will create a monthly newspaper and design the yearbook. Advanced knowledge of digital cameras, Moviemaker and editing software are expected. Outside work is a major part of this course.\*

**Prerequisite:** Computer Science I (Grade Level 1012)

**Credit:** 1

#### **IT Essentials/Computer Architecture (College Preparatory)**

**Description:** This course covers the fundamentals of computer hardware and software as well as advanced concepts. The student will be able to describe the internal components of a computer, to successfully assemble a computer system, to install an operating system, and to use critical thinking to diagnose and solve problems with student laptops. Networking concepts, such as the Internet, sharing resources in a network environment, and connectivity media, will also be covered. Hands on lab activities are an essential element of the course. Any student with a computer violation from previous years will not be admitted into this course.\*

**Prerequisite:** Computer Science I (Grade Level 1112)

**Credit:** 1

#### **Introduction to Business (College Preparatory)**

**Description:** This course allows the student to acquire an understanding for the basic business and economic environment in which we live. The student will enhance an ability to understand finances, budgeting, and other topics involved in the general business field. Consumer economics, social economics, and job market are also topics that will be discussed in this course. The course will aim to prepare the student for college level business courses, degrees in related fields and also knowledge for the operation of the general working world.

**Prerequisite:** 9<sup>th</sup> grade standing

**Credit:** 1

## English Courses

### English 7 (College Preparatory)

**Description:** This course stresses the recognition of the eight parts of speech. Through sentence and paragraph writing, the fundamentals of capitalization and punctuation are stressed. English 7 incorporates the knowledge and application of grammar and mechanics. Creative writing is also a part of the course. Independent reading through the Accelerated Reader program is required.

**Prerequisite:** 7<sup>th</sup> grade standing

**Credit:** Junior High credit

### English 7 (Honors)

**Description:** This course stresses the recognition of the eight parts of speech. Through sentence and paragraph writing, the fundamentals of capitalization and punctuation are stressed. English 7 incorporates the knowledge and application of grammar and mechanics. Creative writing is also a part of the course. All of the above named areas are studied at a faster pace, greater workload, and with higher level of mastery expected. Independent reading through the Accelerated Reader program is required.

**Prerequisite:** 7<sup>th</sup> grade standing \* See Honors criteria

**Credit:** Junior High credit

### English 8 (College Preparatory)

**Description:** This course nurtures the development of students as they grow in language maturity. Students are challenged to use language well, as speakers, listeners, readers, and writers, in gaining access to a variety of information. Grammar is studied formally and is an integral part of the writing program. Students participate in editing activities and journaling in order to apply concepts and skills taught. Students are expected to demonstrate the ability to apply the concepts and skills taught and to take increasing responsibility for their academic performance. Independent reading through the Accelerated Reader program is required.

**Prerequisite:** 8<sup>th</sup> grade standing

**Credit:** Junior High credit

### English 8 (Honors)

**Description:** This course nurtures the development of students as they grow in language maturity. Students are challenged to use language well, as speakers, listeners, readers, and writers, in gaining access to a variety of information. Grammar is studied formally and is an integral part of the writing program. Students participate in editing activities and journaling in order to apply concepts and skills taught. Students are expected to demonstrate the ability to apply the concepts and skills taught and to take increasing responsibility for their academic performance. All of the above named areas are studied at a faster pace, greater workload, and with higher level of mastery expected. Independent reading through the Accelerated Reader program is required.

**Prerequisite:** 8<sup>th</sup> grade standing \* See Honors criteria

**Credit:** Junior High credit

### **English I (College Preparatory)**

**Description:** This course will focus on review and expansion of sentence structure plus paragraph development. English I focuses on literature with emphasis on short stories, poetry and the epic poem in addition to Shakespearean drama. Outside reading is required, and literary elements are incorporated into the curriculum. Writing and research skills are also intertwined in this course. Independent reading through the Accelerated Reader program is required.

**Prerequisite:** 9<sup>th</sup> grade standing

**Credit:** 1

### **English I (Honors)**

**Description:** This course will focus on review and expansion of sentence structure plus paragraph development. English I focuses on literature with emphasis on short stories, poetry and the epic poem in addition to Shakespearean drama. Outside reading is required, and literary elements are incorporated into the curriculum. Writing and research skills are also intertwined in this course. All of the above named areas are studied at a faster pace, greater workload, and with higher level of mastery expected. Independent reading through the Accelerated Reader program is required.

**Prerequisite:** 9<sup>th</sup> grade standing \* See Honors criteria

**Credit:** 1

### **English II (College Preparatory)**

**Description:** This course allows a student to further master the short story, nonfiction prose, poetry, Shakespearean drama, and the novel through a “genre” approach. Students sharpen their grammar skills through writing, which is done through the “writing about literature” approach as well as various types of essays. Research skills and applications are incorporated in this course.

**Prerequisite:** 10<sup>th</sup> grade standing

**Credit:** 1

### **English II (Honors)**

**Description:** This course allows a student to further master the short story, nonfiction prose, poetry, Shakespearean drama, and the novel through a “genre” approach. Students sharpen their grammar skills through writing, which is done through the “writing about literature” approach. All of the above named areas are studied at a faster pace, greater workload, and with a higher level of mastery expected.

**Prerequisite:** 10<sup>th</sup> grade standing \* See Honors criteria

**Credit:** 1

### **English III (College Preparatory)**

**Description:** This course includes a review of traditional grammar in order to improve the writing and composition skills of the students. Literature readings include a survey of American literature from Native American writings to short stories, novels, essays, plays and poetry of presentday America. Separate vocabulary studies using words to be found in reading and standardized testing are also included in the studies. Writing and research skills are also intertwined in this course.

**Prerequisite:** 11<sup>th</sup> grade standing

**Credit:** 1

### **English III (Honors)**

**Description:** This course includes a review of traditional grammar in order to improve the writing and composition skills of the students. Literature readings include a survey of American literature from Native American writings to short stories, novels, essays, plays and poetry of present day America. Separate vocabulary studies using words to be found in reading and standardized testing are also included in the studies. Writing and research skills are also intertwined in this course. All of the above named areas are studied at a faster pace, greater workload, and with higher level of mastery expected.

**Prerequisite:** 11<sup>th</sup> grade standing \* See Honors criteria

**Credit:** 1

### **English IV (College Preparatory)**

**Description:** British Literature traces the significant movements and events in British history through essays, novels, poems, plays, and short stories. Four primary strands of the course include the reading of literature, the sharing and reporting of original ideas, the development of vocabulary, and the craft of writing. Accuracy and clarity of thought are emphasized. The technique of close reading teaches concentration, critical thinking, and vocabulary development. A researched based **Senior Project** is part of the requirements for completion of English IV.

**Prerequisite:** 12<sup>th</sup> grade standing

**Credit:** 1

### **English IV (Honors)**

**Description:** British Literature traces the significant movements and events in British history through essays, novels, poems, plays, and short stories. Four primary strands of the course include the reading of literature, the sharing and reporting of original ideas, the development of vocabulary, and the craft of writing. Accuracy and clarity of thought are emphasized. The technique of close reading teaches concentration, critical thinking, and vocabulary development. A researched based **Senior Project** is part of the requirements for completion of English IV. All of the above named areas of study with greater emphasis placed on additional workload, faster pace, group work and independent study.

**Prerequisite:** 12<sup>th</sup> grade standing \* See Honors criteria

**Credit:** 1

### **Business English (College Preparatory)**

**Description:** This course emphasizes job/career orientation, resume writing, business letters, memos, emails.

A researched based **Senior Project** is a part of the requirements for completion of Business English as well as an employment portfolio.

**Prerequisite:** 12<sup>th</sup> grade standing

**Credit:** 1

### **English Composition (Honors)**

**Description:** This course focuses on creative writing. The writing process, the basics of a threepoint paper and other tools necessary for professional writing are included. Various styles of writing with a focus on grammar mechanics will be integrated throughout the year.

**Prerequisite:** 12<sup>th</sup> grade standing \* See Honors criteria

**Credit:** 1

### **Foreign Language Courses**

#### **Spanish I (College Preparatory)**

**Description:** This is an introductory course to Spanish. The goal is to have students practice all four skills speaking,

listening comprehension, writing and reading. The students are introduced to basic vocabulary, idiomatic expressions, and basic regular/irregular verb conjugations. Students are taught awareness and appreciation of the Spanish culture in Spain, Mexico, Central and South America as well as in the United States which has a large Hispanic population.

**Prerequisite:** 9<sup>th</sup> grade \* See Honors criteria or 10<sup>th</sup> grade standing

**Credit:** 1

#### **Spanish II (College Preparatory)**

**Description:** This is a secondary course in Spanish. The goal is to have students understand simple sentences while using them in conversations while expanding on Spanish I skills with a focus on advanced conjugation of verbs. Through research and projects, students will become acquainted with the customs and culture of Hispanic people.

**Prerequisite:** Spanish I

**Credit:** 1

#### **Spanish III (Honors)**

**Description:** Spanish III is a continuation of the first two years. This course sharpens listening, speaking, reading, and writing skills through activities that are based on pedagogically proven methods of foreign language instruction. Throughout the instructional units, students learn to express themselves using an everincreasing

vocabulary, presenttense

verbs, pasttense

verbs,

articles, and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is integrated throughout the course to help the learner focus on the Spanish speaking world, its cultures, people, geographical locations and histories.

**Prerequisite:** Spanish II

**Credit:** 1

## Math Courses

### **Math 7: Foundations of Algebra (College Preparatory)**

**Description:** Math 7 is a review of whole number, decimal, and fraction operations. Integer operations and rules will be explored in depth as well as the concept of the variable. Math 7 is designed to target areas of weakness and build a solid math foundation in preparation for PreAlgebra.

**Prerequisite:** 7<sup>th</sup> grade standing

**Credit:** Junior High credit

### **PreAlgebra (College Preparatory)**

**Description:** This PreAlgebra course includes an integer review and introduction to the variable and performing operations with a variable. The class is designed to provide relevant Algebra I background concepts. Constant emphasis is placed on developing new knowledge while reviewing and strengthening prior skills.

**Prerequisite:** Math 7

**Credit:** Junior High credit

### **PreAlgebra (Honors)**

**Description:** PreAlgebra includes a review of integer and fraction operations, proceeding to develop a firm understanding of the variable. The order of operations is covered as well as advanced topics. This class is an accelerated class which develops concepts at a fast pace and requires strong retention of math concepts. This course also explores graphing concepts and places an emphasis on higher order thinking and problem solving.

**Prerequisite:** 7<sup>th</sup> grade standing \* See Honors criteria

**Credit:** Junior High credit

### **Algebra I (College Preparatory)**

**Description:** The Algebra I course develops basic skills in fundamental algebraic operations and problem solving. This course includes the study of real number operations, basic equations and inequalities, linear equations, polynomials and factoring, operations with rational functions, and the study of quadratic functions. It is designed to reinforce the student's algebraic skills and prepare them to meet the demands of a rigorous mathematics curriculum.

**Prerequisite:** PreAlgebra

**Credit:** 1

### **Algebra I (Honors)**

**Description:** The basic goals and objectives are the same as Algebra I, although Algebra I Honors progresses at a faster rate and includes more difficult problems. The course covers the properties of signed numbers and exponents, the solution of equations and inequalities, factoring, simplifying rational expressions, graphing linear equations, solving and graphing quadratics and working with radicals.

**Prerequisite:** PreAlgebra

\* See Honors criteria

**Credit:** 1

### **Geometry (College Preparatory)**

**Description:** This course begins the year with a focus on points, lines, planes, and angles, deductive reasoning, parallel lines and planes, congruent triangles, quadrilaterals, and inequalities in geometry. The second semester covers similar polygons, right triangles, circles, construction and loci, areas of geometrical figures. Algebra skills are integrated throughout the course. Proficiency in the use of a graphing calculator and other technology are developed.

**Prerequisite:** Algebra I

**Credit:** 1

### **Geometry (Honors)**

**Description:** Honors Geometry covers the same topics as the college preparatory course but in greater depth. Additional topics beyond the range of the regular course are also examined, such as forms of the linear equation, equations of circles, and application of the distance formula. More theory is involved throughout, and heavy emphasis is placed on problem solving. Students also use technology to determine geometric relationships, developing powers of spatial visualization, and further strengthening algebraic skills.

**Prerequisite:** Algebra I \* See Honors criteria

**Credit:** 1

### **Algebra II (College Preparatory)**

**Description:** This course begins the year with the real number system, linear equations and inequalities, functions, polynomials, quadratic equations, factoring, and rational expressions and equations. The second semester will include new topics such as matrices, imaginary numbers, trigonometric ratios, radical expressions, forms of the linear equation, equations of circles, and applications of various formulas.

**Prerequisite:** Algebra I

**Credit:** 1

### **Algebra II (Honors)**

**Description:** Accelerated Algebra II includes a more detailed study of the college prep Algebra II topics. Students are expected to have a strong foundation in fundamental Algebra I skills. There is a greater level of difficulty in problems and the speed at which the class progresses is faster. The concepts are expanded into far more detail and complexity, and additional topics are covered in the accelerated course.

**Prerequisite:** Algebra I \* See Honors criteria

**Credit:** 1

**Description:** The Advanced Math I course covers the graphing, application, and algebra associated with functions. In particular, it examines linear, quadratic, and higher order polynomial, exponential and logarithmic functions, and conic sections. Algebraic topics include algebra of polynomials, complex numbers, matrices, solving systems of equations, and simplifying logarithmic and exponential expressions. The trigonometry of the right triangle and the unit circle are also discussed.

**Prerequisite: Algebra II**

**Credit: 1**

### **Advanced Math I (Honors)**

**Description:** Honors Advanced Math I is an extremely rigorous version of the regular Advanced Math course and is designed to provide a strong foundation for the study of Calculus. During this course, students continue their study of the polynomial, exponential, logarithmic, and trigonometric functions. Trigonometric ratios, graphs, and identities are also studied in depth. The year ends with an introduction to Calculus and limits.

**Prerequisite: Algebra II \* See Honors criteria**

**Credit: 1**

### **Advanced Math II (Honors)**

**Description:** Advanced Mathematics II is intended to meet the needs of students who have completed Advanced Mathematics I and who will not take calculus. Major emphasis is on the discrete mathematical topics of graph theory applications, matrix properties, recursion, counting techniques, and fractals and chaos. Other topics include descriptive and inferential data analysis, probability, functions and their applications (parametric functions included); and basic concepts of calculus such as limits, differentiation, and integration. All topics are taught with emphasis on applications and technology.

**Prerequisite: Advanced Math I \* See Honors criteria**

**Credit: 1**

### **PreCalculus (Honors)**

**Description:** PreCalculus

includes the essentials of algebra, trigonometry, and calculus.

Functions, graphing, and trigonometry are studied in depth, providing an integration of algebra with the trigonometry. This course also introduces the student to calculus from a graphical and numerical perspective. The second semester covers the topics of limits, derivatives, and differential calculus. The graphing calculator is used as a primary tool for discovery of rules, properties, and theorems about the derivative and the integral.

**Prerequisite: Advanced Math I or II \* See Honors criteria**

**Credit: 1**

**Calculus (Honors)**

**Description:** This course includes the study of limits, continuity, derivatives and integrals.

Application topics included but are not limited to optimization, modeling rates of change, finding area of a region, volume of a solid and average value of a function. Calculus is the culminating course for our students who wish to pursue math related fields.

**Prerequisite:** Advanced Math II \* See Honors criteria

**Credit:** 1

**Integrated Math (College Preparatory)**

**Description:** This course covers the graphing, application, and the algebra associated with functions. In particular, it examines linear, quadratic, and higher order polynomial, exponential and logarithmic functions, and conic sections. Algebraic topics include algebra of polynomials, complex numbers, matrices, solving systems of equations, and simplifying logarithmic and exponential expressions. The trigonometry of the right triangle and the unit circle are also discussed.

**Prerequisite:** Algebra II

**Credit:** 1

**Financial Math (College Preparatory)**

**Description:** This course consists of mathematics which prepares the individual for routine daily business applications as a consumer and a citizen. Focus is placed on simple interest, compound interest, bank reconciliations, taxes, investments, and some phases of insurance purchasing.

**Prerequisite:** Algebra I

**Credit:** 1

## Physical Education Courses

### **Health and Physical Education 7, 8/ IIV**

**Description:** This course including stretching, strength, conditioning weight program, speed, agility, and quickness skills to develop a physicallyfit individual.

**Prerequisite: None**

**Credit: 7<sup>th</sup> / 8<sup>th</sup> Junior**

**High credit**

**I to IVHigh**

**School Credit**

## Reading Courses

### Reading 7 (College Preparatory)

**Description:** Seventh Grade Reading integrates reading, spelling, writing, speaking and listening to further develop students' literacy skills. The reading portion of this course emphasizes skill development in vocabulary, comprehension, reading response, and higher level thinking through reading a variety of genres of literature. Students will also continue to develop their spelling, listening, speaking, and writing skills through various writing assignments, many of which stem from their reading. Independent reading through the Accelerated Reader program is required.

**Prerequisite:** 7<sup>th</sup> grade standing

**Credit:** Junior High credit

### Reading 7 (Honors)

**Description:** Seventh Grade Reading integrates reading, spelling, writing, speaking and listening to further develop students' literacy skills. The reading portion of this course emphasizes skill development in vocabulary, comprehension, reading response, and higher level thinking through a variety of genres of literature. Students develop their literacy skills through various writing assignments. Independent reading through the Accelerated Reader program is required. All of the abovenamed areas are studied at a faster pace, greater workload, and a higher level of mastery expected.

**Prerequisite:** 7<sup>th</sup> grade standing \* See Honors criteria

**Credit:** Junior High credit

### Reading 8 (College Preparatory)

**Description:** Eighth Grade Reading integrates reading, spelling, writing, speaking and listening to further develop students' literacy skills. The reading portion of this course emphasizes skill development in vocabulary, comprehension, reading response, and higher level thinking through reading a variety of genres of literature. Students will also continue to develop their spelling, listening, speaking, and writing skills through various writing assignments, many of which stem from their reading. Independent reading through the Accelerated Reader program is required.

**Prerequisite:** 8<sup>th</sup> grade standing

**Credit:** Junior High credit

### Reading 8 (Honors)

**Description:** Eighth Grade Reading integrates reading, spelling, writing, speaking and listening to further develop students' literacy skills. The reading portion of this course emphasizes skill development in vocabulary, comprehension, reading response, and higher level thinking through a variety of genres of literature. Students develop their literacy skills through various writing assignments. Independent reading through the Accelerated Reader program is required. All of the abovenamed areas are studied at a faster pace, greater workload, and a higher level of mastery expected.

**Prerequisite:** 8<sup>th</sup> grade standing \* See Honors criteria

**Credit:** Junior High credit

## Religion Courses

**Christian service is a required component of every religion course.**

### **Religion 7 (College Preparatory)**

**Description:** This course centers on Jesus' life, his teachings, and the sacraments he instituted. It presents Jesus' call to each person to become his disciple and the ways in which his teachings, his sacraments, and his Church nourish people for discipleship. Students attend Mass weekly, reflect upon daily scripture passages, and engage in daily prayer, both formal and informal. In addition, students are provided opportunities to participate in reconciliation and visit the Blessed Sacrament during Adoration. All students are required to accumulate 20 hours of service-related activities and attend two class retreats, one each semester. Students are also provided with opportunities to participate in Diocesan retreats.

**Prerequisite:** 7<sup>th</sup> grade standing

**Credit:** Junior High credit

### **Religion 8 (College Preparatory)**

**Description:** This course is a dynamic, systematic, catechetical program that is designed for the faith development of the Central Catholic student. The student learns about the Church from Pentecost through her history, including teachings and Tradition, as well as the mission of the Church and the student's responsibility as a baptized Catholic. The student develops morality and a sense of justice based on Catholic Social Teachings. Students attend Mass weekly, reflect upon daily scripture passages, and engage in daily prayer, both formal and informal. In addition, students are provided opportunities to participate in reconciliation and visit the Blessed Sacrament during Adoration. All students are required to accumulate 20 hours of service-related activities and attend two class retreats, one each semester. Students are also provided with opportunities to participate in Diocesan retreats.

**Prerequisite:** 8<sup>th</sup> grade standing

**Credit:** Junior High credit

### **Religion I (College Preparatory)**

**Description:** This course focuses on the overall belief system of the Catholic Church. Students will learn that every baptized person has been called to personally serve God and love his neighbor. Topics covered in this course include: holiness, prayer, the Trinity, the Church, the Blessed Virgin Mary, revelation, Old Testament, New Testament, the Sacraments, the Ten Commandments, and the Beatitudes. Students attend Mass weekly, reflect upon daily scripture passages, and engage in daily prayer, both formal and informal. In addition, students are provided opportunities to participate in reconciliation and visit the Blessed Sacrament during Adoration. All students are required to accumulate 25 hours of service-related activities and attend two class retreats, one each semester. Students are also provided with opportunities to participate in Diocesan retreats.

**Prerequisite:** 9<sup>th</sup> grade standing

**Credit:** 1

### **Religion II (College Preparatory)**

**Description:** This course encompasses the Old Testament and New Testament. Spiritual growth activities include class Bible study, seasonal activities, and faith sharing. Students attend Mass weekly, reflect upon daily scripture passages, and engage in daily prayer, both formal and informal. In addition, students are provided opportunities to participate in reconciliation and visit the Blessed Sacrament during Adoration. All students are required to accumulate 25 hours of service-related activities and attend two class retreats, one each semester. Students are also provided with opportunities to participate in Diocesan retreats.

**Prerequisite:** 10<sup>th</sup> grade standing

**Credit:** 1

### **Religion III (College Preparatory)**

**Description:** This course is the comprehensive history of the Catholic Church, including every major event in the history of the church through present day. The course will explain the role that the Church and its leaders have played in shaping history. Topics covered in this course include: Jesus Christ and the founding of the Church, early Christians, persecution, the Church Fathers and heresies, the Dark Ages, the Iconoclastic Controversy and the Great Schism, the Crusades, the Renaissance, the Protestant Reformation, Missionary Movements, Vatican II and the Church in the modern world. Students attend Mass weekly, reflect upon daily scripture passages, and engage in daily prayer, both formal and informal. In addition, students are provided opportunities to participate in reconciliation and visit the Blessed Sacrament during Adoration. All students are required to accumulate 25 hours of service-related activities and attend two class retreats, one each semester. Students are also provided with opportunities to participate in Diocesan retreats.

**Prerequisite:** 11<sup>th</sup> grade standing

**Credit:** 1

### **Religion IV (College Preparatory)**

**Description:** This course is designed to provide students with the knowledge needed to nurture their own development and formation to live holy lives. The course focuses, first, on the nature of Man, the nature of Man's broken relationship with God, and the reparation of the relationship. Then the course shifts into a practical approach to the Christian responses to moral choices faced in daily life using the Ten Commandments as a guide. Students attend Mass weekly, reflect upon daily scripture passages, and engage in daily prayer, both formal and informal. In addition, students are provided opportunities to participate in reconciliation and visit the Blessed Sacrament during Adoration. All students are required to accumulate 25 hours of service-related activities and attend two class retreats, one each semester. Students are also provided with opportunities to participate in Diocesan retreats. In addition to morality, seniors also engage in a 9 week independent study designed by Bishop Jacobs on the subject of Apologetics. Beginning in January, seniors spend time researching and answering twenty four questions dealing with many major disputed doctrines of the Catholic Church.

**Prerequisite:** 12<sup>th</sup> grade standing

**Credit:** 1

## Science Courses

### **Life Science (College Preparatory)**

**Description:** The goals of the course include developing an understanding and awareness of the world and how it works. Students study and apply the scientific method, while learning how scientists analyze problems. Students perform experiments to better understand biological problems that occur in the world through use of the textbooks, technology, webbased learning, and dissections.

**Prerequisite:** 7<sup>th</sup> grade standing

**Credit:** Junior High credit

### **Life Science (Honors)**

**Description:** This course is taught at an accelerated pace with an emphasis on more indepth understanding of concepts and explanations in all the branches of Life Science. The main focus of this course is to challenge the student to maintain previous knowledge and apply this to new concepts. Critical thinking skills are mastered by composing research papers and creating projects dealing with course concepts. Dissections, both handson and virtual, will be completed in this course.

**Prerequisite:** 7<sup>th</sup> grade standing \* See Honors criteria

**Credit:** Junior High credit

### **Earth Science (College Preparatory)**

**Description:** This course includes the study of the metric system and the scientific method. The main focus of this course is a study of Earth including its origin, physical characteristics, and history. The goal is to develop and reinforce skills such as measuring, graphing, designing experiments, and using lab equipment properly.

**Prerequisite:** 8<sup>th</sup> grade standing

**Credit:** Junior High credit

### **Physical Science (Honors)**

**Description:** This course covers basic chemistry and physics principles to prepare students for future science courses. Related Earth Science topics are also incorporated. Concepts include the study of matter, motion and energy, and the properties of atoms and chemical compounds. Students discover connection through laboratory experiments, technology and reasoning skills.

**Prerequisite:** 8<sup>th</sup> grade standing \* See Honors criteria

**Credit:** 1

### **Physical Science (College Preparatory)**

**Description:** This course offers basic chemistry and physics principles to prepare students for future science courses. Concepts include the study of the properties of matter, motion, energy, properties of atoms and chemical compounds with emphasis on basic laboratory, technology and reasoning skills. Lab activities, experiments, and presentations are used to promote critical thinking, reasoning skills, and an understanding of the world around them.

**Prerequisite:** 9<sup>th</sup> grade standing

**Credit:** 1

### **Biology I (College Preparatory)**

**Description:** This course includes the organization and interactions of organisms in the environment, interaction of species with biotic and abiotic factors, the study of cells, tissues, organs and systems that make up more complex organisms. Taxonomy and classification of plants and animals complete the study.

**Prerequisite:** 10<sup>th</sup> grade standing

**Credit:** 1

### **Biology I (Honors)**

**Description:** This course incorporates all facets of the Biology I course and includes the study of the chemical and biological processes within the human body. Concepts such as population growth, cell replication, and genetics are studied. All the above named areas are studied at a faster pace, greater workload, and with a higher level of mastery expected.

**Prerequisite:** 9<sup>th</sup> grade standing \* See Honors criteria

**Credit:** 1

### **Biology II (Honors)**

**Description:** This course is designed for students interested in majoring in medical related fields. Biology II is a specialized course that focuses on comparative anatomy and physiology. The course initially reintroduces general biology such as scientific method, biochemistry, cytology, genetics and heredity on an advanced level; special emphasis is placed on the systems of the human body which includes each system's function, description, and disorders. Dissection of preserved cats is required for comparative anatomy studies.

**Prerequisite:** Biology I \* See Honors criteria

**Credit:** 1

### **Chemistry I (College Preparatory)**

**Description:** This course covers the fundamentals of basic chemistry including the study of the composition, structure, and properties of matter. More advanced topics include matter and energy, phases of matter, atomic structure and bonding, and chemical formulas and equations.

**Prerequisite:** 11<sup>th</sup> or 12<sup>th</sup> grade standing

**Credit:** 1

### **Chemistry I (Honors)**

**Description:** This course offers a comprehensive introduction to the basics of modern chemistry. Additional topics include an introduction to kinetic theory, acids and bases, and organic chemistry. More emphasis is placed on problem solving skills, as well as critical and independent thinking. All the above named areas are studied at a faster pace, greater workload, and with a higher level of mastery expected.

**Prerequisite: Biology I \* See Honors criteria**

**Credit: 1**

### **Chemistry II (Honors)**

**Description:** This course includes an in depth study of concept in inorganic and organic chemistry, thermo chemistry and kinetics. Topics are studied at a faster pace, greater workload, and with a higher level of mastery expected.

**Prerequisite: Chemistry I \* See Honors criteria**

**Credit: 1**

### **Physics (Honors)**

**Description:** This course is designed for students interested in majoring in math, science or engineering in college. It gives the student a strong conceptual, experimental, and mathematical background in classical mechanics. This course includes the concepts of classical physics such as acceleration, velocity, balanced and unbalanced forces, as well as critical concepts in the areas of sound, light, magnetism and electricity.

**Prerequisite: 11<sup>th</sup> or 12<sup>th</sup> grade standing \* See Honors criteria**

**Credit: 1**

### **Environmental Science (College Preparatory)**

**Description:** This course introduces the relationships between individuals, populations, communities and ecosystems. The value of natural resources is taught along with conservation and preservation.

**Prerequisite: None**

**Credit: 1**

## Social Studies Courses

### **U.S. History (College Preparatory)**

**Description:** This course will trace the development of our country through an examination of the political, economic, social, military, and cultural ideas and events which have formed our American society as it exists today. While beginning with the European interest in exploration, the emphasis of the course will be on the time period from the early 1800's to the present day.

**Prerequisite:** 7<sup>th</sup> grade standing

**Credit:** Junior High credit

### **Louisiana History (College Preparatory)**

**Description:** This course is a study of Louisiana's past including its economy and politics. The goal of this class is to understand its geographic divisions, ethnic groups, and cultural diversity. Current issues are presented and discussed.

**Prerequisite:** 8<sup>th</sup> grade standing

**Credit:** Junior High credit

### **Civics (College Preparatory)**

**Description:** The first half of this course is a survey of American Government, including the theories which contributed to its development, basic structures and workings, and relationship to the economic, social, and legal institutions of our society. Particular emphasis is focused on developing the students' knowledge base, interest, and practical skills involved in citizenship. The second half of this course explores the basic economic concepts as they relate to our present world. The students study the historical, political, cultural, social, and legal events from the 1960s through the present.

**Prerequisite:** 9<sup>th</sup> grade standing

**Credit:** 1

### **American History (College Preparatory)**

**Description:** This is a survey course which traces the development of our country from colonial times to the late 1800s. Students focus on the political, social, and economic issues that shaped early America. This course readies students for American government which explores twentieth century America.

**Prerequisite:** 10<sup>th</sup> grade standing

**Credit:** 1

**American Government (College Preparatory)**

**Description:** This is a survey course which traces the development of our country through an examination of the political, economic, social, and cultural ideas and events which have formed our American society as it exists today. The emphasis of this course is the time period from the early 1900s to the present age.

**Prerequisite:** 11<sup>th</sup> grade standing

**Credit:** 1

**World Geography (College Preparatory)**

**Description:** This is a study of the world's languages, religions, economies, governments, and cultures. Included is the study of different landscapes, climates, and vegetation. Special efforts are made to relate materials studied to current events.

**Prerequisite:** 12<sup>th</sup> grade standing

**Credit:** 1

**World History (Honors)**

**Description:** A survey course which traces the development of our world with an emphasis on western civilization. Students gain an understanding of where society came from, how it developed, and where, based on the evidence presented, it is heading. Twentieth century events and ideas are covered so that students are prepared to live in a truly global society. All the above named areas are studied at a faster pace, greater workload, and with a higher level of mastery expected.

**Prerequisite:** 12<sup>th</sup> grade standing

**Credit:** 1

**Psychology (College Preparatory)**

**Description:** Psychology is a survey course, which presents a brief history of famous psychologists, and other theories that are included in this field. Motivation, abnormal behavior, stages of growth, emotion, consciousness, and human development are examined.

**Prerequisite:** 11<sup>th</sup> or 12<sup>th</sup> grade standing

**Credit:** 1

## **Elective Courses**

### **Remediation (College Preparatory)**

**Description:** This course is designed for students who need extra assistance with their academics. The remedial class offering provides remediation for students in reading comprehension and in the basic skills of mathematics. Study skills and test taking tactics are emphasized. Students have time in this class to complete assignments, work one on one with tutors, and develop study, reading and math skills. The goal of the remediation class is to fill in the students' learning gaps and enable them to become more successful in their course offerings at Central Catholic High School.

**Prerequisite: None**

**Credit: 1**

### **Drama (College Preparatory)**

**Description:** This course covers projects that provide an introduction to theatre basics that are engaging, challenging, creative, and fun. It includes hands on, action packed assignments – from improve and character development to writing and directing to creating props and planning set designs. All Drama students must participate in the school's annual play/musical.

**Prerequisite: 9<sup>th</sup> grade standing**

**Credit: 1**

### **Band (College Preparatory)**

**Description:** The CCHS band is open to all students in grades 7-12.

Students will review basic

skills of scales, rhythms, history and theory. The main focus will be learning, reading and performing traditional band literature as well as arrangements of jazz and rock. The band will perform a minimum of two evening concerts per year and will be responsible for performing at football games. Additionally, the band may participate in other activities such as pep rallies, parades and other community functions and band festivals.

**Prerequisite: None**

**Credit: 1**

### **Speech (College Preparatory)**

**Description:** This course focuses on intrapersonal and interpersonal communication skills.

Students will learn problem solving, conflict management, and leadership skills through this course.

**Prerequisite: 9<sup>th</sup> grade standing**

**Credit: 1**