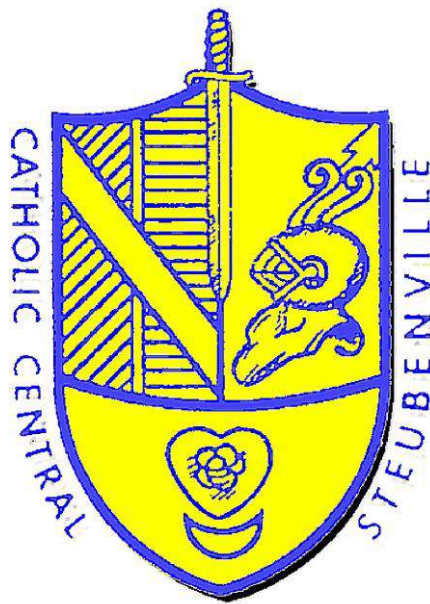


*Catholic Central High School*  
*2023 - 2024*  
*Course Offerings*



*Mission Statement*

*Grounded in the Catholic Faith, rooted in tradition, and committed to academic excellence, we are a school community that inspires students to utilize their God-given talents for a life of Christian Discipleship and service.*

## DISCLAIMERS

### Non-Discrimination Policy

The Diocese of Steubenville admits students of any race, color and national or ethnic origin. It is the policy of the Diocese of Steubenville Schools not to discriminate on the basis of sex in its educational programs or employment as required by Title IX of the education amendments of 1972.

By registering at CCHS, a student and his/her parents/guardians understand and agree to pursue the educational objectives and practices, payment of the tuition as stated in this handbook, and to observe the disciplinary code of this school and the Diocese. All policies, regulations and practices as stated are in compliance with Ohio School Law as found in the Ohio Revised Code as pertaining to chartered non-public schools; the Ohio Department of Education; the Ohio Catholic Schools Accrediting Association, the North Central Association of Schools and Colleges, and the Diocesan Office of Education.

### Course Availability

Catholic Central High School reserves the right to decide, at any time prior to the first day of school, whether a particular course will be offered in a given year. This determination will be based on such factors as student interest, rotation sequence, availability of teaching staff, and funding.

In some cases, courses are offered in alternating years, i.e. one course offered one year, one the next. In such cases, the course not offered during the coming year may be printed in italics. Catholic Central High School reserves the right to modify the prerequisites for any course when clearly extenuating and/or extraordinary circumstances are evident.

## STUDENT ACADEMICS

### General Information

Students of Catholic Central High School are offered subjects that cover the traditional offerings for college-preparatory, general, selected business and vocational curricula. These courses are geared to accommodate individual differences and ability levels, and to give a truly balanced education in terms of theology, English, science, mathematics, foreign languages and the humanities.

### Course Selection

The Administration, Guidance personnel, and faculty members set aside time in the second semester for the sole purpose of student course selection and scheduling. Every effort is made to work in cooperation with parents and students to ensure proper placement of students in classes. Class time is given to discuss the courses available. An updated Course Offering Book is published and given to the students to familiarize them with courses and requirements.

### Student Initiated Schedule Changes

It is the policy of Catholic Central High School that once a student has chosen classes, changes will not ordinarily be made. We believe that requests for changes after course selection are not necessarily beneficial to the student. At the same time, we attempt throughout the scheduling and course selection process, to emphasize the need for serious and responsible consideration on the part of the student.

All approved, student-initiated schedule changes made **may only occur during the first two weeks of school and require \$50.00 change of course fee for each course changed.** Ordinarily, schedule changes are not permitted after the initial registration unless the Administration, Guidance personnel, and faculty determine that the change is necessary. Furthermore, if a student withdraws from school before the conclusion of a course, the grade earned up to the time of withdrawal remains a part of the student's permanent record.

## GRADUATION REQUIREMENTS

Students are required to earn **26 credits** for the following basic academic subjects as a requirement for graduation from Catholic Central High School:

<u>Graduation Requirements</u>	<u>Recommended for College Preparation</u>
Theology – 4 credits	Theology- 4 credits
English – 4 credits	English – 4 years required
Social Studies – 3 credits	Social Studies – 4 years
Mathematics – 4 credits	Mathematics – 4 years
Science – 3 credits	Science – 4 credits (Biology and Chemistry required)
Health/PE – 1 credit	Health/PE- 1 credit
Fine Arts – 1 credit	Foreign Language – 3 years
Finance/Economics - .5 credits	Fine Arts – 1 year
Elective – 5.5 credits	Finance/ Economics .5
Community Service – 15 hrs. per year	Electives – 1.5 credits
	Community Service- 15 hrs. per year

### Ohio State Tests

State tests are critical for measuring student learning and ensuring that all students receive a quality education. The Ohio State Tests will be administered to the freshman and sophomore students. They have replaced the Ohio Graduation Test and are given according to the courses that are taken in the areas of English, Mathematics, Science, and Social Studies. The tests are administered online and have a testing window of mid-April through the beginning of May.

In most instances, freshman students will take Algebra 1 and Biology. Sophomores will take English II, Geometry, and American History. Juniors and seniors will take Government. The test is scored on a ratio of 1-5. Scores of 1 and 2 are limited knowledge, 3 is proficient, 4 is accelerated and 5 is advanced. Students must achieve a score of proficiency in Algebra I and English II as an Ohio graduation requirement.

State Funded **ACT** is given to the junior class in the spring of each year. Benchmark scores may be used in lieu of the end of course exams.

## CURRICULUM

### College Preparatory Curriculum

The purpose of this program is to prepare students to enter college. The College Prep student may choose electives from any of those offered, but is encouraged to take 4 credits in Mathematics, 4 credits in laboratory science, and 3 credits in a foreign language.

### Chesterton Academy

The Chesterton Academy is a Classical Curriculum within Catholic Central. It has five core courses in the program including Latin, Philosophy, Theology, Literature, and History. All of these courses are taught through the lens of the Catholic Church. Daily mass is a part of this program.

### S.T.R.E.A.M.

The S.T.R.E.A.M. program concentrates on an Engineering pathway. It is a hands-on, team-oriented class that encourages cooperation, critical thinking, communication, and creativity. This pathway will teach the basic engineering principles, the design loop, and the application of their knowledge to the solving of real world problems.

### College Credit Plus

Ohio's new College Credit Plus can help you earn college and high school credits at the same time by taking college courses from colleges and/or universities. The purpose of this program is to promote rigorous academic pursuits and to provide a wide variety of options to college-ready students. Taking a College Credit Plus course from a public college or university is free, which means no cost for tuition, books, or fees. If you choose to attend a private college or university, you may have limited costs.

### Advanced Placement

The Advanced Placement Program is a cooperative educational endeavor between secondary schools and colleges and universities. Since its inception in 1955, the Program has provided motivated high school students with the opportunity to take college-level courses in a high school setting. Students who participate in the Program not only gain college-level skills, but in many cases, they also earn college credit while they are still in high school. AP courses are taught by dedicated and enthusiastic high school teachers who follow course guidelines developed and published by the College Board.

### Honors Curriculum

Catholic Central offers an Honors Curriculum. The intent of this program is to offer accelerated students the opportunity to participate in a full honors program. This will be reflected on both the graduation diploma and transcript. To graduate with the honors curriculum designation, a student must have the following coursework and a minimum cumulative GPA of 3.5. Students who earn this distinction will wear a white cord at Graduation and will have this honor designated in the Graduation Program.

<b>Course</b>	<b>Total Credits</b>	<b>Junior &amp; Senior Year</b>
Theology	4 credits	Taken in Junior and Senior year
English	4 credits	AP Literature & Composition and AP Language & Composition
Mathematics	4 credits	AP Pre-Calculus and AP Calculus
Science	4 credits	Chemistry 1 and/or Physics and/or Anatomy and Physiology and/or AP Chemistry and/or AP Bio
Foreign Language	4 credits	French III and French IV or Spanish III and Spanish IV
Social Studies	4 credits	AP Government or American Government and Finance/Economics
Electives	2 credits	2 credits of electives or 4 College Courses

**Honors Diploma – awarded by the State of Ohio – Students who earn this distinction will have this honor designated in the Graduation Program**

Math	4 Units
Science	4 Units, Including 2 units of advanced science
Social Studies	4 Units
World Languages	3 Units of one world language, or no less than 2 units of each of two world languages studied
Fine Arts	1 Unit
GPA	3.5 on a 4.0 Scale
ACT/SAT	ACT: 27 or higher/SAT: 1280 or higher

\*Writing sections of either standardized test should not be included in the calculation of this score.

Diploma with Honors requirements pre-supposes completion of all high school diploma requirements in Ohio Revised Code including:

½ unit physical education                      ½ unit health                      ½ unit in American history                      ½ unit in government

**Vocational Curriculum**

These areas are offered to allow the student to individualize and supplement his/her program with Subjects of particular interest or meet a specific interest in business and data processing.

A special program in vocational education is offered through the Joint Vocational School where a student may prepare for a career in one of the many technical fields. The student in the JVS program completes his/her first two years of study at CCHS, meeting the following basic requirements:

Religion	2 credits
English	2 credits
Mathematics	2 credits
Science	2 credits
Health/Physical Education	1 credit
Social Studies	2 credits

The student also chooses suitable electives to round off his/her program. During the final two years, courses are taken at the Vocational School where, in addition to the technical studies, the student also fulfills the graduation requirements in English, Science, Math (two additional credits), and Social Studies (American History and Government). All students who are enrolled in the Vocational School are required to return to Catholic Central for a minimum of 1 hour and 15 minutes per week, after school, for the religious education courses necessary to meet diocesan graduation requirements.

## **REGISTRATION PROCEDURES**

### **Incoming Freshmen and New Students**

Students are given a standardized placement test in eighth grade. A preliminary schedule is prepared for each of these students complete with placement recommendations. The placement of freshmen is based on the results of the placement test, past academic performance, IOWA scores, and 8th grade teacher recommendation.

### **Returning Students**

Class meetings or an assembly will be held so that students may be reminded of graduation requirements and registration procedures. A Pre-Registration day is set aside for students to complete a preliminary registration form and obtain teachers' signatures where required. Students will return completed forms to the main office at the end of the day. The validated scheduling form will be available for parents to review during the evening of registration.

### **Registration Fees**

A non-refundable fee of \$50 is due upon registration.

Parents will need to register their son/daughter for classes at the designated registration time and date. The registration form requires a parent signature.

## **COURSE OFFERINGS**

### **English**

#### **INTRODUCTION TO AMERICAN LITERATURE & COMPOSITION**

Grade 9 or 10

One Credit/Full Year Course

*Offered in the 2024-2025 School Year*

This course offers freshmen and sophomores an intensive review of the basics of grammar and mechanics needed to develop and improve their writing skills, as well as a chronological survey of various genres of American literature carefully selected with the intention of improving students' comprehension skills. Instruction is heavily focused on ways to organize students' thoughts through writing in order to express themselves clearly, a skill which they will need throughout their academic careers and beyond. The goal of this course is for students to master 9th/10th grade Common Core ELA standards to adequately prepare for the End of Course Exam in English II and to prepare for upper-level writing and literature analyses in 11th and 12th grade.

#### **AMERICAN LITERATURE & COMPOSITION**

Grade 9 or 10

One Credit/Full Year Course

*Offered in the 2024-2025 School Year*

American Literature & Composition aims at developing the critical thinking abilities of freshman and sophomore students through the study of literature and writing. A chronological overview of American Literature is pursued with supplementary reading frequently assigned. A strong focus on assisting the student to develop a more mature writing style, and integrating effective rhetoric. A major focus of the course is the introduction of the student to research skills and the conventions of formal discourse in order to enable the student to produce an objective and scholarly paper in support of a position. The production by the student of an original and valid research paper remains an essential requirement of the course.

#### **HONORS AMERICAN LITERATURE & COMPOSITION**

Grade 9 or 10

One Credit/Full Year Course

*Offered in the 2024-2025 School Year*

Prerequisite: Performance at the 8<sup>th</sup> grade level, placement test scores, and teacher recommendation

OR

85% or above in Honors Eng. Lit. course freshman year or 93% or above in English course freshman year and teacher recommendation

Honors American Literature & Composition aims at developing the critical thinking abilities of the student through the study of literature and writing. A chronological overview of American Literature is pursued with supplementary reading frequently assigned. The study of grammar here presupposes the student's mastery of basic grammar skills and seeks primarily to hone and utilize those skills to support composition, with a strong focus on assisting the student to develop a more mature writing style, and integrating effective rhetoric. A major focus of the course is the introduction of the student to research skills and the conventions of formal discourse in order to enable the student to produce an objective and scholarly paper in support of a position. The production by the student of an original and valid research paper remains an essential requirement of the course.

#### **INTRODUCTION TO GENRE STUDIES & COMPOSITION**

Grade 9 or 10

*Offered in the 2023-2024 School Year*

Introduction to Genre Studies & Composition offers the student a review of the basics of grammar as a means of developing his/her writing skills. Regular writing assignments are given as the student learns to organize his/her thoughts and express them clearly and precisely. To improve the comprehension skills and an appreciation of literature, the student is introduced to the study and analysis of a broad variety of literature selections, including the short story, poetry, drama, nonfiction, and myth. During class discussions, the student is encouraged and expected to respond to each of the selections read. The student will also learn the fundamentals of library research and will be guided in the regular use of library materials.

## **GENRE STUDIES & COMPOSITION**

Grade 9 or 10

One Credit/Full Year Course

*Offered in the 2023-2024 School Year*

Genre Studies & Composition is a course designed to allow students to explore the key genres of literature, including fiction, non-fiction, drama, and poetry, from around the world. The goals of this course are to introduce students to a wide variety of renowned literature while also strengthening writing skills through literary analysis essays, research projects, and thesis-driven essays.

## **HONORS GENRE STUDIES & COMPOSITION**

Grade 9 or 10

One Credit/Full Year Course

Prerequisite: Performance at the 8<sup>th</sup> grade level, placement test scores, and strong teacher recommendation.

**OR**

Prerequisite: Minimum of 85% in Honors English course taken during Freshman year and teacher recommendation

Minimum of 93% in English course taken during Freshman year and teacher recommendation

*Offered in the 2023-2024 School Year*

Honors Genre Studies & Composition is a fast-paced course that synthesizes the areas of grammar, composition, vocabulary study, and literature into an integrated whole. The student will review the application of the rules of grammar, and punctuation through intensive study, intended not only to develop the student's understanding of the structure of the language but also lead to more developed composition skills, shown in the mastery of various writing assignments and the five-paragraph essay format. The student will also be introduced to the analysis of literary elements in a broad variety of literature selections, including short stories, novels, drama, and epic.

## **BRITISH LITERATURE & COMPOSITION**

Grade 11 or 12

One Credit/Full Year Course

*Offered in the 2024-2025 School Year*

British Literature & Composition is an introduction to British literature from its early beginnings to the twentieth century, highlighting its historical and social changes. The student will read poetry, drama, short stories, and novels of the major British authors. Written assignments include a variety of compositions and include a required original and valid research paper. Emphasis is also placed on correct usage and grammar, spelling, and vocabulary development.

## **WORLD LITERATURE & COMPOSITION**

Grade 11 or 12

One Credit/Full Year Course

*Offered in the 2024-2025 School Year*

World Literature & Composition offers the student an appreciation of the literature of authors from around the world. Through class discussion, work in groups, presentations, and writing opportunities, the student is led to read and think critically of the major writers of the past and their works. A strong focus is placed on assisting the student to develop his or her writing style. The study of grammar at this level presupposes the student's mastery of certain basic grammar skills and seeks primarily to support composition by honing and utilizing these skills, as well as the student's basic skills in the mechanics of writing in proper manuscript form. A major focus of the course is use of the conventions of formal discourse in order to enable the student to produce an objective paper in support of a position. The production by the student of an original and valid literary analysis paper is a requirement for this course.

## **AP LITERATURE & COMPOSITION**

Grade 11 or 12

One Credit/Full Year Course

Prerequisite: Minimum of 93% in Honors English II or previous AP Language & Composition, overall GPA of 3.50, PSAT and ACT scores, and a strong teacher recommendation

*Offered in the 2024-2025 School Year*

AP English engages the student in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, the student will deepen his/her understanding of the ways writers use language to provide both



meaning and pleasure for their readers. The student will consider a work's structure, style, and themes as well as the more minor literary devices of figurative language, imagery, symbolism, and tone, and an original and valid research paper is required of all students. Upon completion of the course, the student will take the College Board Advanced Placement Test in order to qualify for College credit.

### **AP LANGUAGE & COMPOSITION**

Grade 11 or 12

One Credit/Full Year Course

Prerequisite: Minimum of 93% in Honors English II or previous AP Literature & Composition, overall GPA of 3.50, PSAT and ACT scores, and a strong teacher recommendation

*Offered in the 2023-2024 School Year*

The AP English Language and Composition course focuses on the development and revision of evidence-based analytic and argumentative writing, the rhetorical analysis of nonfiction texts, and the decisions writers make as they compose and revise. Students evaluate, synthesize, and cite research to support their arguments. Additionally, they read and analyze rhetorical elements and their effects in nonfiction texts—including images as forms of text—from a range of disciplines and historical periods

### **CREATIVE WRITING I**

Grades 10, 11, 12

One-half Credit/Semester Course

Creative Writing is intended to develop the student's creative and critical thinking skills through the completion of a variety of creative writing activities. Throughout the course, the student will compose various types of prose and poetry, intended for varying audiences and reflecting various purposes. Utilizing the multiple characteristics of short stories, each student will write an original short story with characters, conflict, and an organized plot. Proper or appropriate grammar, diction, punctuation, and writing mechanics will be emphasized as an integral part of the creative writing process.

### **THEATER ARTS/DRAMA**

Grades 9, 12

One-half Credit/Semester Course

Theater Arts is a semester-long course which focuses on the development of theater through the ages and prepares the student for experience on stage and backstage. The student will learn the fundamentals of the many aspects of stage work. In addition to basic acting skills, the student will also be introduced to the technical aspects of theater, such as lighting, makeup, costuming, set design, and props.

## **Foreign Language**

### **FRENCH III (Honors)**

Grades 11, 12

One Credit/Full Year Course

Prerequisite: Minimum of 85% or above in French II and teacher recommendation

The French III course is offered to students interested in pursuing greater fluency in reading, writing, speaking, and understanding the French language. The study of grammatical structures is continued and expanded, along with various areas of French culture.

### **FRENCH IV (Honors)**

Grades 12

One Credit/Full Year Course

Prerequisite: Minimum of 85% in French III and teacher recommendation

This course reviews and continues the study of grammatical structures and aims toward greater proficiency in understanding and using the French language. A survey of French history, art, and literature is offered. Literary works are read and discussed and Phonetics is continued.

### **SPANISH I**

Grades 8, 9, 10, 11, 12

One Credit/Full Year Course

8th Grade Prerequisite: Average Grade of A in ELA Courses, IOWA Scores, Recommendation of JH Spanish & ELA

teachers

9th-12th Grade Prerequisite: Minimum of 77% in English, Placement Test, and teacher recommendation

The Primary objective of Spanish I is to introduce the student to basic Spanish vocabulary and grammar, oral communication and culture through the four basic skills of listening, speaking, reading and writing.

### **SPANISH II**

Grades 9, 10, 11, 12

One Credit/Full Year Course

Prerequisite: Minimum of 77% in Spanish I and teacher recommendation

Spanish II continues the study of the Spanish language emphasizing increased facility in speaking, reading, and writing. It also emphasizes enlargement of vocabulary and the mastery of grammatical and cultural aspects.

### **SPANISH III (Honors)**

Grades 10, 11, 12

One Credit/Full Year Course

Prerequisite: Minimum of 85% in Spanish II and teacher recommendation

Spanish III is offered to students interested in pursuing greater fluency in reading, writing, speaking, and understanding the Spanish language. This course also continues the study of grammar as well as the culture of the Spanish-speaking countries.

### **SPANISH IV (Honors)**

Grades 11, 12

One Credit/Full Year Course

Prerequisite: Minimum of 85% in Spanish III and teacher recommendation

The Spanish IV course reviews all grammatical structures and works toward a greater proficiency in using the Spanish language. A foundation in Spanish literature is established through the reading and discussion of famous literary works.

### **Latin I**

Grade 9

One Credit/Full Year Course

Far from being a “dead language,” Latin is alive and well. It lives in the Catholic Church through its liturgy, daily use, and official documents. It lives in the English language which draws major portions of its vocabulary from Latin. It lives in legal documents, scientific language, and countless other fields that rely on its precision and order. In fact, it can even be claimed that Latin is a foundational language for anyone who hopes to fully grasp Western culture and tradition. In this introductory course, students will master the basics of Latin grammar and vocabulary using the first book of Fr. Robert Henle’s Latin series. By the year’s end, students will attain a firm grasp of the language, preparing them for their sophomore year study of Caesar. This course includes organization and logic of language (Grammar), including but not limited to parts of speech; present, imperfect, future, perfect, pluperfect, and future perfect tenses; active and passive voice; Indicative and subjunctive mood; and the use of Latin in the Church, particularly in the Mass.

### **Latin II**

Grade 10

One Credit/Full Year Course

Latin II builds upon the initial foundation of Latin I. Latin II uses Fr. Robert Henle’s second Latin book, an ordered study of Julius Caesar’s “Gallic Wars.” Students will spend the first part of the year reviewing and building up their understanding of Latin constructions so that they will be ready to read the Caesar text in the second part of the year. By the end of the year, students will have read several hundred lines of Caesar’s writings and will be capable of hashing through most works of Latin prose. This course focuses on language as a means of communication and highlights organization and logic of language (Grammar), including but not limited to parts of speech; present, imperfect, future, perfect, pluperfect, and future perfect tenses; active and passive voice; indicative and subjunctive mood; Irregular verbs; and the use of Latin in the Church, particularly in the Mass.

### **Latin III**

Grade 11

One Credit/Full Year Course

In this third-year course, students continue to deepen their knowledge and understanding of Latin as they dive into primary texts from a variety of authors. During the first semester, students will read from one of the Doctors of the Catholic Church, St. Augustine, and then from Rome's most famous orator, Cicero. In the second semester, students will first read writings from Petrarch, which tie in with their Renaissance history studies, then selections from Catullus' poems, and they will finish their third year study with passages from the Catechism of the Catholic Church in Latin. After two years of academic rigor, students are rewarded with the sweet victory of being able to translate some of the greatest works of the Western literary tradition. Key themes of this course include language as a means of communication; organization and logic of language (Grammar); the use of Latin in the Roman world, the early Church, and the Church today; and the use of Latin in the Church, particularly in the Mass.

## **Mathematics**

Special Note: All students are required to have a calculator for use in mathematics class. Types of calculators will be discussed at the beginning of each school year.

### **APPLIED ALGEBRA**

Grade 9

One Credit/Full Year Course

Prerequisite: Placement Test, 8th grade teacher recommendation

This course provides the student with a solid preparation for Algebra I and Geometry. The first semester emphasizes algebraic concepts and some introductory algebra. The second semester introduces basic geometry topics.

### **ALGEBRA I**

Grades 8, 9, 10

One Credit/Full Year Course

Prerequisite: Placement Test and 8th grade teacher recommendation or successful completion of Pre-Algebra

This course covers the essential topics of first year Algebra. Emphasis is placed on understanding basic number theory, solving polynomial equations and inequalities, understanding elementary linear functions and their properties, graphing techniques, and practical applications of number theory.

### **GEOMETRY**

Grades 10, 11

One Credit/Full Year Course

Prerequisite: Successful completion of Algebra I

This course covers the essential topics of Euclidean Plane geometry and three-dimensional geometry. Emphasis is placed on developing deductive reasoning skills, understanding theory, and applying the reasoning and theory in proofs and problem solving with plane figures and triangular Trigonometry.

### **ADVANCED GEOMETRY**

Grade 10

One Credit/Full Year Course

Prerequisite: Minimum of 90% for students in Advanced Algebra II

Minimum of 95% for students in Algebra I and teacher recommendation

This course provides an extensive study of the concepts of Euclidian Plane geometry and three-dimensional geometry. Emphasis is placed on developing deductive reasoning skills, understanding theory, and applying the reasoning and theory in proof writing and problem solving with plane figure and triangular and circular Trigonometry. This course is a preparation for the Advanced Placement Calculus course.

### **COLLEGE PREP ALGEBRA II**

Grades 11, 12

One Credit/Full Year Course

Prerequisite: Successful completion of Geometry

Recommended: College bound students who plan to pursue studies in liberal arts, business or social sciences

This course extends the fundamental concepts and skills of Algebra 1, ensuring students have learned algebraic concepts necessary at the post-secondary level. The subject matter consists of real numbers, Algebraic equations and Inequalities, functions and graphing, multiple variable equations polynomial expressions and functions, rational expressions, roots and

complex numbers, quadratic equations and functions, conics, matrices, exponential and logarithmic functions, and circular trigonometry.

### **ADVANCED ALGEBRA II**

Grades 9, 10

One Credit/Full Year Course

Prerequisite: Minimum of 90% in Algebra I as 8<sup>th</sup> grade student and teacher recommendation

This course is designed for students who plan to take AP Calculus as a senior. Emphasis is placed on mastery skills as well as understanding and applying theory with real and complex number systems. The course will review equations and inequalities. It will include a study of functions and polynomial equations. Topics in Trigonometry will be covered in preparation for Advanced Geometry and Pre-Calculus.

### **STATISTICS**

Grades 11, 12

One-half Credit/Semester Course

Prerequisite: Successful completion of Algebra II

In this one semester course students will develop an understanding of the vocabulary, symbols, concepts, and statistical procedures used in statistical studies. They will collect, organize, analyze and summarize data and make reliable predictions. The course will also include probability and probability distributions. Students will investigate real-life problems that require them to employ sampling techniques and see the relative applicability of statistics to solving problems. This course will have an intense use of technology.

### **ADVANCED TRIGONOMETRY**

Grades 11, 12

Half Credit/Semester Course

Prerequisite: Successful completion of Algebra II

This semester course will focus on the essentials of circular trigonometry and vectors as well as a study of transcendental functions beyond coverage in Algebra II. It will be paired with Statistics in order to fulfill the state requirement for credit in Math. This course will require a graphing calculator.

### **AP PRE-CALCULUS**

Grades 11, 12

One Credit/Full Year Course

Prerequisite: Minimum of 93% in Advanced Geometry and 93% in Advanced Algebra II and teacher recommendation

Recommended: Students planning to major in math or science field of studies

This course provides an intense study of sequences, limits, and functions in preparation for AP Calculus in the senior year. It also provides a complete study of the circular and trigonometric functions.

### **AP Statistics**

Grade 11 or 12

One Credit/Full Year Course

Prerequisite: Successful completion of Algebra II

AP Statistics is an introductory college-level statistics course that introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students cultivate their understanding of statistics using technology, investigations, problem solving, and writing as they explore concepts like variation and distribution; patterns and uncertainty; and data-based predictions, decisions, and conclusions.

### **AP CALCULUS**

Grade 12

One Credit/Full Year Course

Prerequisite: Minimum of 90% in Pre-Calculus and teacher recommendation

Recommended: Students planning to major in math or science field of studies

Advanced Calculus AB is designed for students who possess a strong mathematics background and the willingness to

work hard. Part 1 of the course challenges the students with the core concepts of functions, limits, derivatives, integrals and application. Part 2 reviews and prepares for the AP Exam. Upon its completion, students take the College Board Advanced Placement Test in order to qualify for college credit and advanced standing. Because it is an Advanced Placement Course, participation in AP Calculus is by faculty recommendation only.

## **Religion/Theology**

### **Church and Sacraments**

Grade 9 or 10

*One Semester, Offered in 2024-2025 School Year*

Through the sacraments the Church is enriched with the visible signs of the gifts of God's grace. In this course students will explore the manifestations and outpouring of this grace in the life of the Church. Here they will undertake the theological study of grace operating through the seven Sacraments and become acquainted with their nature and effects. Moreover, they will grow in appreciation of the Church and her traditions and her role in guiding her people towards salvation.

### **Church History**

*One Semester, Offered in 2024-2025 School Year*

Covering over 2,000 years, this course surveys the history of grace operating in the world through the mission of Christ in his bride, the Church. Building on the foundations established in the sacramental life of the Church in the former semester, students will be introduced to the richness of the Church's history and her operations in the world. Through this course, students will explore the historical significance of the historical person of Christ and his influence on the entirety of human history.

### **Sacred Scripture I**

*One Semester, Offered in 2023-2024 School Year*

Grade 9 or 10

Sacred Scripture is the inspired word of God handed down to his Church in written form. It, therefore, holds a central place in the study of Theology and in understanding the Catholic Faith. As such, this course seeks to uncover God's nature and his plan for salvation, as revealed through the Bible, and illustrates his involvement in the lives of his people. Through the study of the Pentateuch, in conjunction with the teachings of the Church, students will discover the universal call to holiness and how to read, understand, and pray with the treasure of God's written word.

### **Sacred Scripture II**

*One Semester, Offered in 2023-2024 School Year*

Grade 9 or 10

Sacred Scripture tells one united story of God's plan for salvation and his relationship with humanity. This course builds upon the foundations developed in the prior semester through highlighting the connection between the covenants of the Old Testament and how they can be understood in light of the New Testament and Christ's coming. Furthermore, it investigates the person of Christ and the beginnings of the Church as revealed through the Scriptures, and how its truths can draw us into a deeper relationship with God.

### **Catholic Social Teaching**

*One Semester, Offered in the 2024-2025 School Year*

Grade 11 or 12

Catholic Social Teaching, is a course of applied moral theology that has as its end true justice in society. It provides a framework with which students may view and better understand the great commandments to love God and love one's neighbor, within the context of society and the world. It builds upon the foundations of morality, and encourages students to look beyond themselves to the common good. Furthermore, it examines the dignity and rights of every person and how they are called to participate in society.

### **Apologetics**

*One Semester, Offered in the 2024-2025 School Year*

Grade 11 or 12

Apologetics is the art of explaining and defending the Catholic faith through the application of human reason. This course provides a brief overview of the philosophical principles necessary to form a foundation for understanding, and

construction of logical arguments that are essential to this end. Here, students will systematically prove the central truths of the faith such as the existence of God, the divinity of Jesus Christ, the trustworthiness of the Bible, and the truth of Catholicism.

### **Morality**

*One Semester, Offered in the 2023-2024 School Year*  
Grade 11 or 12

Students face countless choices and challenges in their daily lives. This course addresses how a relationship with Christ and the Church can lead to choices that are in accord with God's plan. The students learn what it means to live as a disciple of Christ and how the Church strengthens this discipleship through its moral teachings. In this course students are challenged to ask what it means to be made free, how freedom relates to moral decision-making, and how to make the choices that will ultimately lead them to eternal happiness.

### **Theology of the Body**

*One Semester, Offered in the 2023-2024 School Year*  
Grade 11 or 12

Theology of the Body seeks an understanding of the nature of God, his love, and his divine plan through the study of the human person, whom he made in his image and likeness. This course is based on the writing of St. John Paul II entitled *Theology of the Body*, which explores how our physical being reveals God and how we can use this knowledge to grow in relationship with Him. Students will discover the theology of marriage and sexual morality through this course's reflection upon the dignity of the human person, made in the image of the Trinity. Moreover, it will examine God's invitation to vocation and our fulfillment in divine beatitude.

## **Science**

### **BIOLOGY**

Grades 9, 10  
One Credit/Full Year Course

Biology investigates the composition, diversity, complexity, and interconnectedness of life on Earth. Fundamental concepts such as heredity provide a framework through inquiry-based instruction to explore the living world, the physical environment and the interactions within and between them. Students engage in investigations to understand and explain the behavior of living things in a variety of scenarios that incorporate scientific reasoning, analysis, communication skills, and real-world applications.

### **HONORS BIOLOGY**

Grades 8, 9, 10  
One Credit/Full Year Course  
Prerequisite: IOWA or HSPT scores, 93% or higher in previous science course, teacher recommendation

This advanced Biology course uses a systems approach to investigate the composition, diversity, complexity, and interconnectedness of life on Earth. Fundamental concepts such as heredity provide a framework through inquiry-based instruction to explore the living world, the physical environment and the interactions within and between them. Students engage in investigations to understand and explain the behavior of living things in a variety of scenarios that incorporate scientific reasoning, analysis, communication skills, and real-world applications.

### **ENVIRONMENTAL SCIENCE** (The course will alternate years with Earth Science)

Grades 11, 12  
One Credit/Full Year Course, *Offered in 2023/2024 School Year*

Environmental Science incorporates biology, chemistry, physics and physical geology and introduces students to key concepts, principles and theories within environmental science. Investigations are used to understand and explain the behavior of nature in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communications skills and real-world applications.

### **EARTH SCIENCE** (The course will alternate years with Environmental Science)

Grades 10, 11, 12  
One Credit/ Full Year Course, *Offered in 2024/2025 School Year*

*This is a broad study of Earth including its history and place in the universe, earth materials, and the processes that shape its surface. This course includes concepts from geology, oceanography, astronomy and meteorology.*

## **CHEMISTRY**

Grades 10, 11, 12

One Credit/Full Year Course

Prerequisite: Minimum of 87% in Biology or Environmental Science  
Minimum of 85% in Geometry or Algebra II

Chemistry introduces students to key concepts and theories that provide a foundation for further study in other sciences as well as advanced science disciplines. Chemistry comprises a systematic study of the *predictive* physical interactions of matter and subsequent events that occur in the natural world. The study of matter through the exploration of classification, its structure and its interactions is how this course is organized. This course includes inquiry-based laboratory experiences that engage students in asking valid scientific questions and gathering and analyzing information. Investigations are used to understand and explain the behavior of matter in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications. An understanding of leading theories and how they have informed current knowledge prepares students with higher order cognitive capabilities of evaluation, prediction, and application. Success in the course is heavily dependent on successful problem solving. A strong background in mathematics is required.

## **HONORS CHEMISTRY**

Grades 10, 11, 12

One Credit/Full Year Course

Prerequisite: Minimum of 87% in Honors Biology or minimum of 95% in Biology

Chemistry introduces students to key concepts and theories that provide a foundation for further study in other sciences as well as advanced science disciplines. Chemistry comprises a systematic study of the *predictive* physical interactions of matter and subsequent events that occur in the natural world. The study of matter through the exploration of classification, its structure and its interactions is how this course is organized. This course includes inquiry-based laboratory experiences that engage students in asking valid scientific questions and gathering and analyzing information. Investigations are used to understand and explain the behavior of matter in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications. An understanding of leading theories and how they have informed current knowledge prepares students with higher order cognitive capabilities of evaluation, prediction, and application. Success in the course is heavily dependent on successful problem solving. A strong background in mathematics is required.

## **PHYSICS (Honors)**

Grades 11, 12

One Credit/Full Year Course

Prerequisite: Completion of Algebra II and Chemistry 1 with an 85% average or higher in each course, established work ethic, and teacher recommendation.

Physics elaborates on the study of the key concepts of motion, forces and energy as they relate to increasingly complex systems and applications that will provide a foundation for further study in science and scientific literacy. Students engage in investigations to understand and explain motion, forces and energy in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications. Success in Physics is heavily dependent on successful problem solving and a working knowledge of trigonometric functions. A strong background in mathematics is required.

## **ANATOMY AND PHYSIOLOGY (Honors)**

Grades 11, 12

One Credit/Full Year Course

Prerequisite: 85% or higher in Living Systems or biology, 85% or higher in Chemistry, established work ethic, and teacher recommendation

Anatomy and Physiology uses a systems approach to examine many aspects of the human body. This is an academically challenging course that uses a college-level textbook and laboratory manual. In addition to body systems the course covers cytology, histology, and biochemistry. Dissections (including a cat dissection) are used to develop comprehensive skills in comparative anatomy.

### **AP CHEMISTRY**

*One Credit/Full Year Course, Offered in 2023-2024 School Year*

Grade 11 or 12

Prerequisite: Students must have scored a 93% or higher in Chemistry I/Honors Chemistry; Completion of Algebra 2 with a 93% or higher. Established work ethic and teacher recommendation.

The AP Chemistry course provides students with a college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore content such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. College Course Equivalent The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. Prerequisites Students should have successfully completed a general high school chemistry course and Algebra II. Lab Requirement This course requires that 25 percent of instructional time engages students in lab investigations. Topics include stoichiometry, gas laws, quantum theory, electron configuration, bonding, molecular geometry, states of matter, kinetics, equilibria, acids and bases, thermodynamics, redox, nuclear and organic chemistry. This includes a minimum of 12 hands-on labs (at least six of which are inquiry-based). It is recommended that students keep a lab notebook throughout. Recommended for advanced track math students and future science majors.

### **AP BIOLOGY**

*One Credit/Full Year Course, Offered in 2023-2024 School Year*

Grades 11 and 12

Prerequisite: Honors Biology/Chemistry with an 93% or higher average in each course, Work Ethic and Teacher Recommendation

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions. In addition, the course will cover cytology, histology, and biochemistry. This is an academically challenging course that uses a college-level textbook and laboratory manuals. The AP Biology course is equivalent to a two-semester college introductory biology course for biology majors. The alpha dissection table will be utilized to bridge the gap between the concepts learned in animal anatomy with those in human anatomy. It will also provide students the opportunity to dissect and visualize real human tissue.

### **PHYSICAL EDUCATION I**

Grade 9

One-half Credit/Semester Course

Required for students who do not participate in two seasons of athletics, cheerleading, or marching band.

### **HEALTH**

Grade 9

*One-half Credit/Semester Course*

Graduation Requirement

Students will study the basic functions of the human body, its care and maintenance, and the prevention of disease, as well as physical, social, and emotional health. They will also become aware of the many health problems in today's society such as smoking, drug and alcohol abuse, and sexually transmitted diseases.

### **WEIGHTLIFTING & FITNESS**

Grades 9, 10, 11, 12

One-half Credit/Semester Course

This course is designed to provide students with the knowledge of weight training concepts and techniques used to obtain physical fitness. Key concepts include muscle function and performance. The course will provide students with an



overview of fitness concepts, principles, and strategies.

## **Social Studies**

### **AMERICAN HISTORY**

Grade 9 or 10

*One Credit/Full Year Course, Offered in 2024-2025 School Year*

In every generation, Americans have encountered and solved problems besetting the nation. Today, we must contend with both domestic and foreign problems of great urgency. We must determine our national goals and the appropriate means for moving toward them. Americans can gain perspective and guidance for this task through an understanding of our past and our national heritage. This course prepares students to live in a multi-cultural, pluralistic society. It includes global education related to American foreign policy. It focuses on the topics of the Emergence of Modern America in the Industrial Revolution, the New Horizons of Imperialism, the Progressive Movement, World War I, the Roosevelt Years and World War II, the Cold War, and recent Presidential Administrations. Current events are an integral part of this course, relating past and present movements in history. Political and economic institutions, urbanization, labor, social and cultural fields of history are studied.

### **HONORS AMERICAN HISTORY**

Grade 9 or 10

*One Credit/Full Year Course, Offered in 2024-2025 School Year*

Prerequisite for 9th Grade Students: 'A' in 8th Grade Social Studies, Strong Teacher Recommendation, HSPT/IOWA Test Scores

Prerequisite for 10th grade students: 85% or above in Honors World History/Geography 9th grade year OR 95% or above in World History/Geography 9th grade year with strong teacher recommendation.

This course provides a one-year survey of American history from the Colonial Period and the American Revolution to the present day, with an emphasis on the twentieth century. Using the textbook and primary documents and current events, students learn about the various political, social, religious, and economic developments that have shaped and continue to shape the United States. Essay writing, class projects, class discussion, and critical thinking are emphasized as integral ways of understanding how the past relates to the present and future. A major research paper is required in the spring semester.

### **WORLD HISTORY**

Grade 9 or 10

*One Half Credit/Semester Course, Offered in 2023-2024 School Year*

World History offers students a chronological account of the major civilizations and their development throughout the history of the world, with a specific emphasis on Western Civilization. Through lecture, class discussion, work in groups, student presentation, writing opportunities, and minor projects, students are led to an understanding of the development of the world in which they live and by studying the history, government, economy, and societies of various civilizations and the geographic factors and political movements which affected them. Students will be asked to think critically, using appropriate social studies skills and terminology. As such, considerable time will be devoted in each unit to the development of an understanding of terminology, standard social studies skills and accepted methodology for the critical study of history.

### **HONORS WORLD HISTORY**

Grade 9 or 10

*One Half Credit/Semester Course, Offered in 2023-2024 School Year*

Prerequisite for 9th Grade Students: 'A' in 8th Grade Social Studies, Strong Teacher Recommendation, HSPT/IOWA Test Scores

Prerequisite for 10th grade students: 85% or above in Honors American History 9th grade year OR 95% or above in American History 9th grade year with strong teacher recommendation.

Honors World History examines human development from the dawn of civilization to the present day. Students learn about the socioeconomic conditions, political institutions, and ideological attitudes that have marked various time periods throughout history. Using primary and secondary sources, students conduct an inquiry-based research to examine historical

events, cultural developments, and social and family structures. Students will analyze statistics and data from maps, charts, and graphs to identify trends and patterns throughout history. Students are encouraged to use critical-thinking and problem-solving skills to evaluate the achievements of civilizations in the fields of science, technology, and the arts. This course includes a series of projects, class discussions, and activities that offer a variety of modalities for ultimate student engagement and content retention. Each chapter contains a series of lessons that include introduction of content, virtual demonstration of that content, and repeated opportunity to practice that content, along with a quiz per chapter, test per chapter, and final exam at the end of the course.

## **GEOGRAPHY**

Grade 9 or 10

One-half Credit/Semester Course, *Offered in 2023-2024 School Year*

Each of us shares the world with five billion other people living in various world culture regions on our planet. With the increased mobility of today's societies, advanced levels of communication, and political inter-relationships throughout the world, a need for geographic knowledge is essential to make intelligent decisions and choices concerning our lives. Throughout this course the student will develop a basic understanding of the skills and concepts and tools of geography. Geographical history, regional descriptions and geographic problems of current concern will be analyzed and discussed throughout this course.

## **HONORS GEOGRAPHY**

Grade 9 or 10

One Half Credit/Semester Course

Prerequisite for 9th Grade Students: 'A' in 8th Grade Social Studies, Strong Teacher Recommendation, HSPT/IOWA Test Scores

Prerequisite for 10th grade students: 85% or above in Honors American History 9th grade year OR 95% or above in American History 9th grade year with strong teacher recommendation.

In Honors World Geography, students utilize physical and cultural perspectives to examine people, places, and environments at local, regional, national, and international levels. Students describe the influence of geography on the events of the past and present with emphasis on contemporary issues. Every student will be required to complete a country project. A significant portion of the course centers around the physical processes that shape patterns in the physical environment; the characteristics of major landforms, climates, and ecosystems and interrelationships; the political, economic, and social processes that shape cultural patterns of regions; types and patterns of settlement; the distribution of movement of world population; relationships among people, places, and environments; and the concept of religion. Students analyze how location affects economic activities in different economic systems. Students identify the processes that influence the world's political divisions and they analyze how different points of view affect the development of public policies. Students compare how components of culture shape the regional characteristics and analyze the impact of technology and human modifications on the physical environment. Students use problem-solving and decision-making skills to ask and answer geographic questions.

## **AP U.S. GOVERNMENT & POLITICS**

Grades 11, 12

One Credit/Full Year Course

Prerequisite: Minimum of 3.2 cumulative GPA and/or taking weighted courses as well as teacher recommendation

AP U.S. Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Essay writing, class discussion, class projects, and critical thinking are emphasized as integral ways of understanding how the past relates to the present and future. A major research paper is required in the spring semester. Students are expected to take the AP exam at the end of the course.

## **YOUTH AND LAW**

Grades 11, 12

One-half Credit/Semester Course, *Offered in the 2023-2024 School Year*

Prerequisite: Minimum of 85% in American History

Youth and Law is a course that attempts to give the students the basic tools for understanding our legal system. The class covers four major areas: Constitutional Rights and Responsibilities, Crimes and the Criminal Justice Process, differences between Criminal and Civil law, prisons and prison alternatives, case studies, group discussions, guest speakers and a field trip to the county courthouse are some of the class activities.

### **CONTEMPORARY WORLD ISSUES**

Grades 11, 12

*One-half Credit/Semester Course, Offered in the 2023-2024 School Year*

Contemporary issues is devoted to studying the historical origins and development of domestic and foreign political and social problems that confront contemporary humanity. Possibilities include regional studies (ex. AIDS in Africa or the state of affairs in the Middle East), as well as issues of global concern such as North South relations environmental issues, the war on terror, world poverty, sustainable development, and global economic development. Specific topics to explore will be developed in conjunction with the students according to their interests and needs.

### **FINANCE AND ECONOMICS**

Grades 11, 12

*One-Half Credit/Semester Course*

Graduation Requirement

Finance and Economics is a course designed to help students apply valuable skills in money management, credit management and retirement planning. This course gives students an understanding of the terms scarcity, marginal cost, market price trade and competition as well as how people make choices about ways to use limited resources. Financial decisions are impacted by studying micro-economics (decision making by small firms and individuals) and macro-economics (decision making by the government).

Financial success begins with good career planning, goal setting, and an understanding of the income sources and taxes. Students will explore methods of getting more for their money and the basics of good financial planning using the banking system, intertwined with savings and investing.

### **AMERICAN GOVERNMENT**

Grade 11 or 12

*One-half Credit/Semester Course, Offered in the 2024-2025 School Year*

In 1787 the United States Government was organized into the kind of system we have today. That system was explained in a document called the Constitution. The preamble begins with the words "We the people..." It ends with "establish this Constitution for the United States of America." All of its power comes from the people. The people must have at least a basic understanding of the workings of that government and of its elective process. Rights and responsibilities under our city, state and federal systems are taught. Americanism and Government tests are administered to these students.

## **Fine Arts**

### **ART I**

Grades 9, 10,11,12

One Credit/Full Year Course

This course will introduce students to the visual arts through art history and hands-on experiences. This course will offer students a basic study of the elements of art and principles of design accompanied by the study of artists, art movements, artistic styles and methods used in the creative process and thought. Students will learn how to look at a work of art, and understand the role art has played throughout history and the Catholic religion. This course is a prerequisite for all upper level art courses. Requires physical activity and cleaning.

### **ART II**

Grades 10, 11 & 12  
One Credit/Full Year Course  
Prerequisite: Art I

Art II is designed for those students who have successfully completed Art I and wish to continue to master skills on a more advanced level. The objective is to develop the student's ability to observe and perceive art by 1.) The production of art 2.) The criticism of art 3.) The history of art and 4.) The aesthetics of art. This class continues with the visual arts and hands-on experience. A variety of art styles will be explored including drawing, painting, sculpture, & printmaking. A wide variety of mediums will be used to create projects which include, paint, modeling materials, ink, paper, pastels, markers and so on. Both two-dimensional and three dimensional art will be explored. The history of styles and techniques will also be discussed. Requires physical activity and cleaning.

### **ART III/IV**

Grades 11 & 12  
One Credit/Full Year Course  
Prerequisite: Art I & II

An advanced art course geared to the serious art student who has completed Art II. Students are given the opportunity to develop independent approaches in style, development, and artistic problem-solving. Emphasis is on the refinement of previously learned techniques, skills, values, and theories. Students will do oil paintings, mixed media, mosaic, mask making, and sculptures, as well as a focus on advertising. Professionalism and sophistication are encouraged in project approach and development. Students will maintain a sketchbook throughout the course. There will be a concentration on developing a portfolio that should encompass the many artworks from their years in Steubenville Catholic High School.

### **DRAWING & PAINTING**

One Credit/Full Year Course

Drawing explores the foundational medium of drawing with a variety of approaches, technically and conceptually. We will investigate line, value, volume, form, texture, and surface in addition to other formal elements of drawing. Simultaneously, we will address the functions of vision, observation, and the mechanics of translating what we see through the hand.

## **Electives**

### **INTRODUCTION TO COMPUTER GRAPHIC DESIGN**

Grades 9,10,11,12  
One-Half Credit/Semester Course  
Highly recommended for all students

Computer graphic design combines technology, business, and art skills, using computer-generated images and words to create unique concepts and messages for publishing and advertising. Students will work with various programs, including Google, Microsoft, and Adobe Photoshop.

### **CHILD DEVELOPMENT**

Grades 11 & 12  
One-Half Credit/Semester Course

This course addresses knowledge and skills related to child growth and development from prenatal through school-age children, equipping students with child development skills. Students use these skills to promote the well-being and healthy development of children. Students investigate careers related to the care and education of children.

### **PUBLIC SPEAKING**

Grades 11 & 12  
One-Half Credit/Semester Course

In this course, you will be introduced to the basics of communication and public speaking techniques. In addition, you will utilize skills to help you develop dynamic verbal skills as well as confidence in oral presentation. You will be expected to participate in class as speaker and as an audience member. You will deliver a variety of speeches: introductory, informative, demonstration, persuasive, and special occasions. You will also participate in classroom trials, debates, and various impromptu speaking activities. The objective of this course is to learn and practice effective delivery of speeches for a variety of purposes and audiences.

### **CULINARY ARTS**

Grades 10, 11, & 12  
One-Half Credit/Semester Course

Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques.

**STEM I: Engineering Essentials**

Grades 9, 10, 11, 12  
One Credit/Full Year Course

Engineering Essentials is a full-year course designed to be a high school student's first exposure to the PLTW Engineering program and is appropriate for students in grades 9-12. In Engineering Essentials, students explore the work of engineers and their role in the design and development of solutions to real-world problems. The course introduces students to engineering concepts that are applicable across multiple engineering disciplines and empowers them to build technical skills through the use of a variety of engineering tools, such as geographic information systems (GIS), 3-D solid modeling software, and prototyping equipment. Students learn and apply the engineering design process to develop mechanical, electronic, process, and logistical solutions to relevant problems across a variety of industry sectors, including health care, public service, and product development and manufacturing.

**STEM II: Principles of Engineering**

Grades 10, 11, 12  
Prerequisite: Successful completion of STEM I  
One Credit/Full Year Course

Principles of Engineering (POE) is a foundation course of the high school engineering pathway. This survey course exposes students to some of the major concepts that they will encounter in a postsecondary engineering course of study. Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of materials and structures, automation, and kinematics. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology. Students have the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based (APB) learning. By solving rigorous and relevant design problems using engineering and science concepts within a collaborative learning environment, APB learning challenges students to continually hone their interpersonal skills, creative abilities, and problem solving skills. Students will also learn how to document their work and communicate their solutions to their peers and members of the professional community. It also allows students to develop strategies to enable and direct their own learning, which is the ultimate goal of education.

**STEM III: Introduction to Engineering Design PDP**

Grades 10, 11  
Prerequisite: Successful completion of STEM I & II  
One Credit/Full Year Course

**TRAIL MAP FOR LIFE**

Grades 11, 12  
One-Half Credit/Semester Course

This course is designed to help students identify, understand the importance, and navigate essential topics in life. Core life topics include money, health, and time management. Key relationship topics include family, friends, and community. Other units cover faith, purpose, character, and goals.

**Music**

**BAND I**

Grades 9, 10, 11, 12  
One-half Credit/Semester Course (Fall)

The students will gain proficiency with their wind or percussion instrument, expand knowledge of music fundamentals and theory, increase skills in ensemble performance, and be offered opportunities for improvisation and composition.

### **CONCERT BAND (Spring Semester)**

Grades 9, 10, 11, 12

One-half Credit/Semester Course

In Concert Band, students increase proficiency and experience with wind or percussion instruments. Instrumentalists expand knowledge of music fundamentals and theory, gain confidence and musical experience in personal abilities and skill through ensemble performance, and have opportunities for public performances in various venues including a Spring concert and at the CCHS graduation. Graduates are not required to perform at graduation.

### **CHOIR**

Grades 9, 10, 11, 12

One-half Credit/Semester Course

This course is for students interested in developing their vocal performing abilities. In Choir, students increase proficiency with vocal coaching, expand knowledge of music fundamentals and theory, gain confidence and musical experience in personal abilities and skill through ensemble performance, and have opportunities for improvisation and composition and individual expression. Piano accompanists and percussionists (any level) are welcome to be a member of this class.

### **MUSIC THEORY**

Grades 9, 10, 11, 12

One-half Credit/Semester Course

Music Theory is a science; a very personal individual skill. The design of this class is to develop the student's ability to recognize, understand, and describe the basic materials and processes of music that are either heard or presented in a written score. We will approach achievement of these goals by initially addressing fundamental aural, analytical, and compositional skills using both listening (ear training) and written exercises. Building on this foundation, the course progresses to include more creative tasks, such as the harmonization of a melody by selecting appropriate chords, composing a musical bass line to provide two-voice counterpoint, and the realization of figured-bass notation based on historically accepted practices of harmony. We will also introduce each orchestral instrument, how it produces sounds and how to write music for that instrument.

## **Study Skills and Strategies**

### **STUDY SKILLS INTERVENTION**

Grades 9, 10, 11

Full Year Course

This course is specifically for those students who are accepted for the Jon Peterson Scholarship Program – (See Guidance Counselor for explanation).

## **CHESTERTON ACADEMY**

### **THEOLOGY**

#### **Chesterton Academy Theology 9 - Old Testament**

*One Credit/Full Year Course*

Grade 9

Prerequisite: Students must be enrolled in the Chesterton Academy to take this course.

Old Testament gives students a general knowledge and appreciation of the Sacred Scriptures, where students encounter the living Word of God. In the course they discover the Bible, authored through God's inspiration, and its value to the world. Further, students gain an understanding of how to read the Bible and become familiar with the major sections of the Old Testament and the books included therein. Particular attention is paid to the story of salvation, culminating in the coming of Christ; a story that continues in our own lives to this day. Moreover, students gain an appreciation for the way God created man and woman to be in his image and likeness, destined for communion with Him.

### **Chesterton Academy Theology 10 - New Testament**

*One Credit/Full Year Course*

Grade 10

Prerequisite: Students must be enrolled in the Chesterton Academy to take this course.

This course introduces students to the New Testament as the fulfillment of God's plan for salvation in the person of Jesus Christ. Further, it emphasizes that the entire Old Testament points directly to Jesus as the redeemer promised by God from the very beginning. Special emphasis is given to the four Gospels and the Eucharist, which are at the heart of the Scriptures and the principal source for the life and teaching of Jesus.

### **Chesterton Academy Theology - The Church and the Deposit of Faith**

*One Credit/Full Year Course*

11th or 12th Grade

Prerequisite: Students must be enrolled in the Chesterton Academy to take this course.

This course addresses the integration of faith with the rational understanding of God and his salvific plan. Through the investigation of the limitations and fallibility of human reason, students will grow in their knowledge and trust in the Church and her teachings. Moreover, this course aims to deepen the students' relationship with God through uncovering the necessity of divine revelation to discover the truths handed on by the Church, as given in the profession of faith and demonstrated through the Sacraments.

### **Chesterton Academy Theology - Life in Christ**

*One Credit/Full Year Course*

11th or 12th Grade

Prerequisite: Students must be enrolled in the Chesterton Academy to take this course.

Students continue their exploration of Catholic theology by studying the third and fourth pillars of the Catechism of the Catholic Church: Life in Christ and Christian Prayer. Students will utilize their philosophical and reasoning skills as they study the principles of moral theology, and ask what it means to be made in the image of God, how freedom relates to moral decision-making, how we form our consciences according to the truth, and how to apply that truth to society through the aid of the Church's Social Teaching. Additionally, students will practice prayer, an action central to the heart of the Christian life, and to uncover God's invitation to eternal happiness.

## **Literature**

### **Chesterton Academy Literature 9- Ancient Literature**

*One Credit/Full Year Course*

9th Grade

Prerequisite: Students must be enrolled in the Chesterton Academy to take this course.

The literature of ancient Greece and Rome has so captivated and formed the minds of Western man that it is impossible to imagine Western Civilization without it. In this course, students are introduced to the perennial questions of the human condition through the works of Homer, Virgil, and Greek dramatists. Questions of honor, virtue, love, longing, and happiness are put forward as students are challenged to enter the conversation in the search for truth. In this Socratic method style course, students learn how to interact with ideas different from their own, distinguish between opinion and proof, and analyze texts according to sound logical principles. Ultimately, this course teaches students that the works that remain most relevant are also those that speak most deeply to our human condition.

### **Chesterton Academy Literature 10 - Medieval Literature**

*One Credit/Full Year Course*

10th Grade

Prerequisite: Students must be enrolled in the Chesterton Academy to take this course.

Often forgotten by many other curricula, this course dives deep into Early Medieval literature, which illustrates the great Christian synthesis between Mediterranean and Northern European culture. In this course, students are exposed to the progression of Christian culture through provoking narratives. In this Socratic Method style course, students dive into Beowulf, The Confessions of St. Augustine, Le Morte d'Arthur, The Canterbury Tales, and The Ballad of the White Horse, which lead to discussions about our human frailty, the path towards conversion and redemption, and our place in this world. Whether battling against seemingly insurmountable obstacles or exploring the deepest depths of the human heart, this course is sure to thrill as it provides fresh insights in the condition of man and the nature of God. Throughout the year, students will also analyze, discuss, and memorize between 5-10 poems, giving them further ways of understanding the world and man's relationship with God.

### **Chesterton Academy Literature 11 - High Middle Ages to Renaissance Literature**

*One Credit/Full Year Course*

11th Grade

Prerequisite: Students must be enrolled in the Chesterton Academy to take this course.

High Middle Ages and Renaissance literature include some of the richest and most illuminating works of Western civilization. These writings take their rightful place in the organic development of Western literature and represent a period in human history where faith and daily life were beautifully integrated. Beginning with Dante's Divine Comedy, which has been described as a cathedral in words, students are led through the beautifully intricate and insightful works of William Shakespeare, Robert Bolt, and Miguel de Cervantes. Great masterpieces in themselves, these works explore countless themes such as the realization of sin, the nature of God's mercy, and mankind's longing for the Truth and union with God. These great works have an enduring value as reflective of man's pursuit for God.

### **Chesterton Academy Literature 12 - Modern Literature**

*One Credit/Full Year Course*

12th Grade

Prerequisite: Students must be enrolled in the Chesterton Academy to take this course.

Modern literature chronicles the emergence of a post-Christian world. This world was born in the humanism and skepticism that emerged during the Renaissance and grew through periods of revolution and turmoil. Therefore, it is not surprising that the works studied in this course such as Frankenstein, Faust, 1984, and Brothers Karamazov wrestle with themes of dystopia, science and religion, class structure, and the disharmony of faith and reason. Literature in this period portrays a culture in turmoil, but it also witnesses to man's longing for something greater than himself. The works studied in this course are a testament to the fact that regardless of how far we stray or how convoluted our ideas about the world become, we cannot escape something deep within us that yearns for what is True, Good, and Beautiful. In the final analysis, modern literature teaches us that no matter how hard modern man tries he cannot deny his creator without denying himself.

## History

### **Ancient History 9**

*One Credit/Full Year Course*

9th Grade

Prerequisite: Students must be enrolled in the Chesterton Academy to take this course.

In this panoramic sweep of the foundations of Western civilization, students follow a timeline and order that covers vast amounts of territory and 3,500 years of ancient history. During this period of empires and epics, art and architecture, new inventions and social structures, students are introduced to the fundamental elements of culture. They enter the worlds of ancient civilizations and encounter the events, people, and accomplishments that have echoed throughout the centuries.

Beginning with ancient Mesopotamia, students are led through the complex worlds of ancient Egypt, India, Persia, Greece, and Rome. In what ways were these civilizations different from each other and from our own? What part did they play in making us what we are today? It is the task of this introductory course to invite students to enter a world both vastly different from our own and yet paradoxically ever so similar.

### **Early Medieval History 10**

*One Credit/Full Year Course*

10th Grade

Prerequisite: Students must be enrolled in the Chesterton Academy to take this course.



Far from being a time of darkness as many have come to think of the Middle Ages, Medieval history plays a vital role in our understanding of the world today.

The Medieval period from the time of Christ through the High Middle Ages is a fascinating world of flourishing culture from art, politics, warfare, literature, education, and science. It is during this age that we see the rise of soaring Cathedrals, new naval engineering, a grand synthesis of faith and reason, and the thriving of new arts and culture.

Whether students are exploring the vast world of Byzantium, the Carolingian Dynasty, or the rise of Islam, they will be awed by the events of history and delighted to find just how connected and similar they are to our own world today.

### **High Middle Age and Renaissance History 11**

*One Credit/Full Year Course*

11th Grade

Prerequisite: Students must be enrolled in the Chesterton Academy to take this course.

Directly setting the stage for our own day, this course explores the complex and often misunderstood world of the High Middle Ages and the Renaissance. We witness in this period the fracturing and ultimate dividing of a unified Christendom leading to what would eventually become a dramatic division along religious and political lines. This is the world in which we witness the rise of influential figures such as Genghis Khan, Louis XIV, St. Dominic and St. Francis, and Martin Luther. Students in this course will find that many of the conventional historical ideas and concepts in the wider culture can often obscure as much as they reveal. They will find that only when we put aside societal biases and misconceptions can we gain a more accurate and truer view of history and, indeed, of our very selves.

### **Modern History 12**

*One Credit/Full Year Course*

12th Grade

Prerequisite: Students must be enrolled in the Chesterton Academy to take this course.

In no other time period perhaps can we witness such vast and sweeping changes in government, technology, and the way people think and live. In a relatively short length of years, we witness the near complete transformation of every continent on the globe. Whether by social upheaval, world war, mass genocide, or revolutionary technology, the Modern period can be defined in some ways by its distinct break with the past while simultaneously forgetting just how much we have in common. By studying such events as the Industrial Revolution, the founding of America, World War II, and the cultural revolutions of the 1960's and 70's students are able to bring into greater focus where we've been, where we are, and where we're headed.

### **Philosophy**

#### **Philosophy 9-Introduction to Philosophy**

*One Credit/Full Year Course*

"The more human beings know reality and the world, the more they know themselves in their uniqueness, and with that there presses upon them the urgent desire to find out the meaning of reality and of our existence." Our experience of the world awakens in us "the fundamental questions which pervade human life: Who am I? Where have I come from and where am I going? Why is there evil? What is there after this life?... In fact, the answer given to these questions decides the direction which people seek to give to their lives." (St. John Paul II, *Fides et Ratio*). The Freshman Year Philosophy course invites students to join the millennia long tradition in the search for truth. The pre-Socratic philosophers were the first to look at the world in a philosophical way — searching for the ultimate truth or cause of things. This search was continued by the greatest of the Greek philosophers — Socrates, Plato, and Aristotle. Students are asked to enter into this search, to learn not simply about philosophy but how to do it. They learn by asking these fundamental questions for themselves. Through exploring the work of these philosophers, students begin to formulate a response to the fundamental questions of human life. Moreover, they will learn the foundational principles of logic and the most common fallacies that are found in man's reasoning. Ultimately, philosophy is about the "love of wisdom." This course lays the foundation for students to be not only critical thinkers, but lovers of wisdom and searchers for Truth.

#### **Philosophy 10- Foundations of Medieval Philosophy**

For millennia man has grappled with life's deepest questions. Is the soul immortal? How should a human society be governed? What things actually exist? What is virtue? These questions and many more were first

posed in recorded history by Socrates, Plato, and Aristotle and the world has never been the same since. This course invites students to enter the discussion in the quest for what is True, Good, and Beautiful. Indeed, the thought of Plato and Aristotle sets the stage for not only Roman and Medieval culture but all of Western civilization. Through dialogue and lecture students are challenged to apply the philosophic tools of their freshman course as they ponder the fascinating thought world of virtue and vice, citizen and slave, politics and religion, the material world and the immortal soul.

### **Philosophy 11/12**

\*Currently offered as CCP classes through Franciscan University—students take the courses in-seat at CCHS during the regular school day