

COURSE GUIDE



COLUMBUS CATHOLIC HIGH SCHOOL

2017-18 Academic Year



CEDAR VALLEY
CATHOLIC SCHOOLS

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2017-2018 COURSE PLANNING GUIDE

Four Year Plan

- All Columbus students will have a 4-year Academic Plan that maps out coursework for their high school experience. This plan will be developed during their 8th grade year and then revised as necessary during high school. The plan will contain information on post-secondary planning and education that will take place during high school.
- Students are responsible for planning and keeping track of their academic record in high school. This is extremely important so the student will be able to complete required courses for graduation and will be able to keep a record of the number of credits taken and what credits lie in the balance.
- The following information is to assist you in the development of your high school program. Ninth and tenth graders may wish to project their course of studies for the next several years. Eleventh and twelfth graders may want to record classes already taken so that they may determine prior to registration which courses and how many credits are needed for graduation.
- As you plan your course of studies over the next four years, consult your teachers, school counselor and parents. Check the Graduation Requirements in this course planner to make certain you are arranging all of the necessary credits and courses. The technology requirement may be met anytime during grades 9 – 12. We advise beginning technology courses early in your high school career.
- Parents are encouraged to call their student's school counselor for concerns or questions about course selections.

GRADUATION REQUIREMENTS

Every Columbus graduate must meet the following requirements for graduation.

1. Eight semesters of English
2. Six semesters of Science
3. Six semesters of Social Studies
4. Six semesters of Mathematics
5. Four semesters of Physical Education
6. One semester of Communications
7. One semester of Technology
8. Remaining classes are electives.

A total of 49 credits is required for graduation

the life of the church and about the sacred nature of the Church. They will also be introduced to the Liturgical Seasons. United States Conference of Catholic Bishops (USCCB) Curriculum.

Sacraments (11)

Credit: 1 **1st Semester**

Sacraments as Privileged Encounters with Jesus Christ. The purpose of this course is to help students understand that they can encounter Christ today in a full and real way in and through the sacraments, and especially through the Eucharist. Students will examine each of the sacraments in detail so as to learn how they may encounter Christ throughout life. United States Conference of Catholic Bishops (USCCB) Curriculum.

Life in Jesus Christ (11)

Credit: 1 **2nd Semester**

Your Life in Christ: Foundations of Catholic Morality. The purpose of this course is to help students understand that it is only through Christ that they can fully live out God's plans for their lives. Students are to learn that moral concepts and precepts that govern the lives and decision making of Christ's disciples. United States Conference of Catholic Bishops (USCCB) Curriculum.

Social Ministry Courses

The Church has developed a body of teaching on social, cultural, political, and economic matters which include: "The Challenge of Peace", "Economic Justice for All: Catholic Social Teaching and the U.S. Economy", and "To the Ends of the Earth", (on missions). Written by the U.S. Bishops these pastoral letters invite, call and challenge us to join the struggle to live out faith in justice. These documents compel us to respond to the crisis we see in the social order today.

While social ministry is the privilege and responsibility of every Christian, all Christians do not fulfill this responsibility in the same fashion. Therefore the course requirement in social ministry may be fulfilled in one of three ways. Seniors may select either Challenge of Peace, Christian Service or Christian Ministry and Leadership to fulfill the semester opposite Covenant Living. Please refer to the specific course descriptions below when requesting either alternative.

Social Ministry/ Christian Service (12)

Credit: 1 **1st Semester**

Students will meet in the classroom for orientation at the beginning of the course after which they will go out to give service at their assigned location. Fifty hours of service is required.

Required for registration:

- **Students must be interviewed and approved by Ms. Wiss before scheduling.**
- Students who are representing Columbus through community service must not have any truancies in the previous school year.
- Unauthorized absences from assigned service location will result in failure for the quarter grade.

Social Ministry/Challenge of Peace (12)

Credit: 1 **1st Semester**

The purpose of this course is to look critically at our lives, our society and our world so that the students may learn information, change behaviors, and take action according to Jesus' message. The foundation will be based on the body of teaching known as the Catholic Social Teaching Principles.

Covenant Living (12)

Credit: 1 **2nd Semester**

The purpose of this course is to aid students in facing the challenges of young adulthood, so they may shape a future that is hopeful, healthy, and full. A Christian lifestyle is presented as an optimal way to grow and be fully alive. Matrimony, Consecrated life, single life will be considered and discernment will be a focus as a means to determining God's call for us.

skill set learned in 9th grade English, each unit allows for a close study of literary works, as well as, a consideration of historical and cultural context. Students are exposed to different literary works, composition, grammar and drama. Each of these units will be integrated within the course.

Accelerated English 10 (10)

Credit: 2 Meets for 2 semesters

Faculty signature required: 9th grade English teacher

Accelerated English 10 is designed for the student who has excelled in English as a ninth grader and who has the desire to be challenged. A variety of literary genre will be taught as well as additional writing skills.

Communications (10, 11, 12)

Credit: 1 Meets for one semester

Speech is a required course for graduation. It is designed to help students achieve a style of speaking which is natural, correct and effective so as to become aware of the communication process.

**Grade 11 (Choose one) English 11 Composition/Literature
AP English Language and Composition**

English 11 Composition/Literature (11)

Credit: 2 Meets for 2 semesters

English 11 is designed to expose the student to a variety of American authors and to develop writing skills. The course is divided into two semesters. One semester is a study of American novels, short stories, poetry, Shakespearian drama, as well as writing literary analysis of such work. The other semester covers the development of writing skills, including personal and academic writing, using a variety of audiences and purposes. The Composition semester is meant to prepare students for intensive writing experiences similar to what they will expect to see in college. The 2nd Semester will provide students with a foundation in American literature and the student will be ready to branch into European literature which will be the focus in 12th grade.

Advanced Placement English Language And Composition (11)

Credit: 2 Meets for 2 semesters

Faculty signature required: 10th grade English teacher

Advanced Placement English Language and Composition is a college-level course which includes both the reading and analysis of various prose and the study of process writing. Through such study and practice, students gain an understanding of the principals of effective writing and become effective writers themselves. The organized study of the structure of sentences, paragraphs and essay patterns introduces students to the semantics, structural and rhetorical resources of the language. Students enrolled in Advanced Placement English have the option to take the College Board Advanced Placement Exam in the spring which may qualify them for college credit. Enrollment is limited to this course (approximately 15 - 20 students per section). In preparation for this course, students may be given a summer reading list to work on for the fall semester. It is expected that these readings and a writing journal are to be completed over the summer by the student.

Grade 12 (Choose two)

**College Prep Literature
College Prep Composition
Dual Credit Composition I / Composition II / Intro to Literature**

College Prep Composition/Literature (12)

Credit: 2

Meets for 2 semesters

Faculty signature required: 11th grade English teacher

College Prep English is designed to prepare the high school senior who is in the top fifty percent of his/her class for college English assignments. A student with plans of attending a two or four year college and with the ability to study college preparatory material would be appropriately placed by registering for

this course. Emphasis will be on the study of literature and the development of writing skills. Areas covered in literature may include Italian, British and French authors. Areas covered in the development of writing skills include the narrative, description, informed opinion (argumentation), analysis and research through process writing.

DUAL CREDIT

ENGLISH 105 COMPOSITION 1

3 HAWKEYE COMMUNITY COLLEGE CREDIT

1 Columbus High School Credit

There may be a textbook fee for this class.

Composition I emphasizes fluency, thesis-driven organization, the use of supporting details, and research techniques. Writing is approached as a recursive process that includes prewriting strategies, drafting, revising, and editing. The course helps students shape writing to serve readers' needs and define a sense of purpose in their writing. It also gives students strategies for reading college-level material.

Students must meet minimum competency scores to qualify. (ACT 19+/Accuplacer 82+)

DUAL CREDIT

ENG106 Composition II

3 HAWKEYE COMMUNITY COLLEGE CREDIT

1 Columbus High School Credit

There may be a textbook fee for this class.

Composition II aims to review and extend writing principles learned in Composition I to analytical, argumentative, and research-based writing. This course emphasizes critical reading, evaluation, and precise and responsible source citation.

Pre-requisite: Passing grade in Composition !

DUAL CREDIT

LIT 101 Introduction to Literature (offered 2nd semester)

3 Hawkeye credits

1 Columbus High School Credit

There may be a textbook fee for this class.

This course studies multiple literary forms and genres. Students will be introduced to literary terminology, analysis and interpretation of literature, and a variety of authors and literary styles. Instruction will emphasize the process of reading to develop and interpret meaning and classroom discussions encouraging students to share interpretations. Students will also respond to literature through informal and formal written assignments that foster skill in analysis and interpretation.

Students must have meet minimum competency scores to qualify. (

MATHEMATICS

Welcome to the department of Mathematics. All students planning on going to college should take a minimum of: Algebra, I Geometry and Algebra II.

Pathway #1: Pre-Algebra, Algebra I, Geometry, Algebra ii
Pathway #2: Algebra I, Geometry, Algebra II, options for year 4
Pathway #3: ACC Algebra I, ACC Geometry, ACC Algebra II, Pre-Calculus, Calculus

Pre-Algebra

Credit: 2 **Meets for 2 semesters**
Faculty signature required: 8th grade math instructor

Pre-Algebra is designed for the student in need of more preparation for Algebra I. The course aims to encourage the student to continue in mathematics and be successful. Students are expected to have and use a scientific calculator.

Algebra I (9, 10, 11, 12)

Credit: 2 **Meets for 2 semesters**
Faculty signature needed: 8th grade math instructor or most recent math instructor

Algebra I enables the student to experience mathematics in a variety of ways: patterns, working with formulas, graphing ideas, working with scientific calculators. Algebra is different from arithmetic; sometimes it may be harder, but often it is easier because there is less computation. This course is required for any student who plans to attend college. Students are expected to have and use a scientific calculator.

Accelerated Algebra I (8, 9)

Credit: 2 **Meets for 2 semesters**
Faculty signature needed: 8th grade math instructor

Accelerated Algebra I includes the study of variables, number properties, algebraic expressions and equations, verbal problems and selected topics from Algebra II including exponential functions. Students are expected to have and use a scientific calculator.

Geometry (9, 10, 11, 12)

Credit: 2 **Meets for 2 semesters**
Pre-requisite: Algebra I
Faculty signature required: most recent math instructor

Geometry integrates algebraic concepts into the development of basic methods of plane, coordinate and special geometry. Clarity of thinking in a logical manner is stress through inductive and deductive reasoning. The importance of precision and clarity of language is emphasized in both mathematical and non-mathematical situations.

Accelerated Geometry (9, 10, 11, 12)

Credit: 2 **Meets for 2 semesters**
Prerequisite: Algebra 1 or Accelerated Algebra I or department approval
Faculty signature required: most recent math instructor or department chair

Accelerated Geometry is the second course of the accelerated mathematics sequence. A background in algebra is necessary along with a very high interest in math and science. The format of the course is based upon a rigorous approach to complex algebraic concepts. The course will include a review of Algebra I, selected topics from algebra II, geometry, logic and algebraic proof.

Algebra II (10, 11, 12)

Credit: 2 **Meets for 2 semesters**
Prerequisite: Algebra and Geometry
Faculty signature required: most recent math instructor or department chair

Algebra II provides a review of basic algebra and a deeper understanding of algebraic systems. It includes geometry integrated with the algebra. Reading and problem solving are emphasized throughout.

Students are expected to have and use a scientific calculator (a graphing calculator is recommended). This course is required for any student who plans to attend college.

Accelerated Algebra II (10, 11, 12)

Credit: 2 Meets for 2 semesters

Prerequisite: Accelerated Geometry or department approval

Faculty signature required: most recent math instructor or department chair

Accelerated Algebra II is a continuation of Accelerated Geometry. It reviews algebra skills with emphasis on advanced algebra problems. Analytic geometry, coordinate geometry, functions, graphing techniques, determinants and matrices are included in the topics in this course. Students are expected to have a scientific calculator.

Accelerated Pre-Calculus (11, 12)

Credit: 2 Meets for 2 semesters

Prerequisite: Accelerated Algebra II or Algebra II or department approval

Faculty signature required: most recent math instructor or department chair

Accelerated Pre-Calculus challenges even the most gifted math student with a higher level of mathematical skills and problem solving. All previous Math will be reviewed and reinforced. Functions and their graphs (including higher degree polynomials, rational functions, exponential and logarithmic functions and trigonometric functions), complex numbers, sequences and series, and analysis will be studied in depth and calculus will be introduced and applied. A graphing calculator (TI83+ or TI86) is required for this course.

Advanced Placement Calculus (12)

Credit: 2 Meets for 2 semesters

Prerequisite: Accelerated Pre-Calculus

Faculty signature required: most recent math instructor of department chair

Advanced Placement Calculus is a college-level class for those accelerated math students who have completed Accelerated Pre-Calculus. Students will have the option of taking the College Board Advanced Placement Exam for AP Calculus in the spring, which may qualify them for college credit. A graphing calculator (TI83+ or TI86, or equivalent) is required for this course.

DUAL CREDIT

MAT110 Math for Liberal Arts (Minimum of 10 students for the course to be taught)

3 HAWKEYE COLLEGE CREDITS; 1 COLUMBUS HIGH SCHOOL CREDIT

There may be a textbook fee for this class.

This is a one semester, liberal arts mathematics course that satisfies the minimum general education requirement for math. The course is designed to impart math skills which are helpful in everyday life as well as to expose students to areas of mathematics they may not have seen before. Topics include problem-solving skills, set theory, algebra, consumer mathematics, probability, and statistics. Other topics may be included.

Students must meet minimum competency scores to qualify (ACT 19+/Accuplacer 85) for college credit. Students may take the class for high school credit.

DUAL CREDIT

MAT 156 Statistics (Minimum of 10 students for the course to be taught)

3 HAWKEYE COLLEGE CREDITS; 1 COLUMBUS HIGH SCHOOL CREDIT

There may be a textbook fee for this class.

This course is a study of descriptive statistics including graphical representation, central tendency, correlation and regression, intuitive treatment of probability and inferential statistics including hypothesis testing.

Students must meet minimum competency scores to qualify (ACT 19+/Accuplacer 85) for college credit. Students may take the class for high school credit.

COMPUTER SCIENCE

It is increasingly important to be familiar with computers in order to succeed in today's world, but the future is not only in using computers, but knowing how to control their operation. Computers have changed our world, and we want students to learn how to control computers - - not have computers control them.

Computer Science courses are strongly recommended for students headed towards mathematics, science, engineering, or computer science in post-secondary education, but they will be beneficial to almost everyone.

Computer Science courses will also offer much more than the opportunity to learn a new language.

Tech Team (9, 10, 11, 12)

Credit: 1

Meets for 1 semester

Prerequisite: Algebra I Faculty department signature required

This course will expose students to various aspects of computer technology. From supporting and troubleshooting Mac and Windows computer labs, updating iPads, publishing a website that supports the tech users at Columbus, teaching others how to use technology, to designing apps and basic programming. A student choosing this course should be curious about how computers work, have patience to troubleshoot in challenging situations, possess a strong work ethic, and have good interpersonal communication skills.

HTML/CSS & Xcode Programming

Credit:1

Meets for 1 Semester

Prerequisite: Interest in web programming

HTML/CSS & Xcode Programming is a semester long, entry-level course on how to use these 3 programming languages to create web-based applications. This course is a great starting point for students interested in a career in technology.

JAVASCRIPT & PYTHON Programming

Credit: 1

Meets for 1 Semester

Prerequisite: HTML/CSS & Xcode Programming

JAVASCRIPT & PYTHON Programming is a semester long course built off of HTML/CSS & Xcode programming. We will further explore two more programming languages that build off of the prerequisite.

C#, C++ & Ruby Programming

Credit: 1

Meets for 1 Semester

Prerequisite: JAVASCRIPT & PYTHON Programming

C#, C++ & Ruby Programming is a semester long course exploring three more complicated languages in the web programming field. If you are interested in being a programmer for the First Robotics Club this will be the language we will use for programming. This course is also designed for those students who are going to enter into a career in technology programming.

PHOTOSHOP

Credit: 1

Meets for 1 Semester

Prerequisite: Interest in photography

Photoshop is a semester long entry-level course on Adobe Photoshop CC. This course will give step-by-step techniques for working in Photoshop and how to correct, enhance, and distort digital images, create image composites, and prepare images for print and the web. This course is a prerequisite to Photography. This class is designed for those students interested in entering the photography field.

Video Editing**Credit: 1****Meets for 1 Semester****Prerequisite:**

Video Editing is a semester long entry-level course on Adobe Premiere CC. This course will take a project from beginning to end and you learn how to organize media, add audio, create transitions, produce titles, and add effects. Take your projects further by sweetening and mixing sound, compositing footage, adjusting color, using advanced editing techniques, managing projects, working with 360 video for VR headsets, exporting, and much more.

SCIENCE

Six credits of science are required in order to graduate from Columbus High School; however, for students who are planning on attending postsecondary education more exposure to science is highly recommended. If a student plans on attending a 4 year College or university, at least 6 credits are required, with at least 4 credits being in laboratory courses. A variety of science courses are available to our students.

Physical Science (9) required

Credit: 2 **Meets for 2 semesters**

Fee: \$10.00/semester

In addition to introducing students to basic terms and concepts used in physical science, this mandatory introductory course will develop basic process study skills of: observing, classifying, measuring, inferring, and predicting. Students will learn and practice efficient ways to: read in the content area, take notes, formulate hypotheses, conduct experiments, interpret data, work synergistically, as well to organize and communicate the process and results of scientific investigations and technological design projects.

Biology (10, 11, 12) required

Credit: 2 **Meets for two semesters**

Fee: \$10.00/semester, subject to change

Biology is a course beginning with the study of a simple cell, its structure and functions, and progressing to multicellular organisms, their structures and activities. This course will include classification, DNA controls, genetics, ecology, evolution, and comparative systems concepts.

Chemistry (10, 11, 12)

Credit: 2 **Meets for 2 semesters**

Prerequisite: Two years of math including Algebra I

Faculty signature required: chemistry teacher

Fee: \$15.00/semester.

Chemistry is a physical science. It is the study of materials, their composition and structure and the changes they undergo. It is a body of systematized knowledge gained from observation, experimentation and intense study. The goal of this class is to help prepare students for entry level chemistry courses in college.

Physics (10, 11, 12)

Credit: 2 **Meets 2 semesters**

Prerequisite: two years of math including Geometry

Faculty signature required: most recent science teacher

Fee: \$15.00/semester

Physics is the study of material objects: what are they made of and what they can do. Students anticipating taking introductory physical science courses in college are strongly urged to enroll in this course which uses: careful measurement, trigonometry, algebra, and reasoning-skills to: Investigate physical constants such as the speed of sound, speed of light, index of refraction, etc.

Introduction to Engineering (10, 11, 12)

Credit: 2 **Meets two semesters**

This course introduces students to basic concepts of engineering. It is about applying engineering, science, math, and technology to solve complex, open-ended problems in a real-world context. Students focus on the process of defining and solving a problem, not on getting the "right" answer. They learn how to apply STEM knowledge, skills, and habits of mind to make the world a better place through innovation.

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Ecology And The Environment (10, 11, 12)**Credit: 1 Meets for one semester**

Ecology is the study of living things and the delicate balance they have achieved with their environment. The units of study will include an introduction to science, food webs and energy flow, nutrient cycles, soil, populations, human populations, terrestrial biomes and freshwater ecosystems.

Robotics 101 (10, 11, 12)**Credit: 1
Meets for one semester
Pre-requisite: Physical Science**

Students will learn the basics of robotics design, coding, and engineering principles through challenging build projects. Students will work in design teams to build a robot to complete various tasks. While working the students will practice using the design loop and record keeping skills. This class will create an environment where students can try ideas, experiment with designs, and learn from their success as well as mistakes. Projects will start simple with basic quick build instructions and simple code commands and progress to more advanced robotics skills. The course will end with a final challenging build task for students to accomplish.

Applied Scientific Analysis - Crime Investigations (CSI) (11, 12)**Credits: 1 Meets for 1 semester
Prerequisite: 2 years of science, including 1 year of Biology
Fee: \$10.00, subject to change**

This course is intended to interest students in science by involving them in actual scientific skills and strategies that are used by crime investigators. The course is designed to be a hands-on, lab-oriented class. Students must be able to work with the microscope, chemicals, electrophoresis, chromatography, and other biological and chemical tools. It will require accurate observing, being able to make comparisons, and drawing reasonable and accurate conclusions.

Human Biology (11, 12)**Credit: 1 Meets for one semester
Prerequisite: Biology
Fee: \$10.00, subject to change**

Human Biology students will study the skeletal, muscular, nervous, endocrine and circulatory systems of the human body. Instruction will be given in current research being done in all fields of human anatomy and physiology.

Jurassic Park (10, 11, 12)**Credits: 1 Meets for 1 semester
Fee: \$10.00, subject to change**

In this course students will work in cooperative groups. Students will work in the following areas: biology, ecology, earth science, environmental science, topographic mapping, biotechnology, geology, archaeology and animal behavior. The end product will be an animal park based on a prehistoric time period. Student will create a diorama and a detailed map of their park. They will present their final project to the class.

DUAL CREDIT**BIO 112 General Biology I****4 HAWKEYE COMMUNITY COLLEGE CREDITS****1 COLUMBUS HIGH SCHOOL CREDIT****There may be a textbook fee for this class.**

This lecture and laboratory course is the first of a two semester sequence designed for students with a specific interest in majoring in the biological sciences or a desire for a more comprehensive undergraduate course in the discipline. The course integrates the basic principles of general biology and focuses on their interrelationships. The major themes addressed include levels of organization, cell structure and metabolism, the genetic basis of life, evolution, diversity and ecological relationships. Laboratory

exercises are coordinated with lecture topics to enhance the student's understanding of these topics.

BIO 113 General Biology II

4 HAWKEYE COLLEGE CREDITS

1 COLUMBUS HIGH SCHOOL CREDIT

There may be a textbook fee for this class.

This lecture and laboratory course is part of a two semester sequence designed for students with a specific interest in majoring in the biological sciences or a desire for a more comprehensive undergraduate course in the discipline. The major focus of this course is on the diversity of life forms, including microbes, protists, the fungi, plants and animals. The course will include the study of their structure and function, evolutionary patterns, ecological relationships and behavior. Laboratory exercises are coordinated with lecture topics to enhance the student's understanding of the lecture concepts

SOCIAL STUDIES

Social studies is an integral part of the total Catholic school curriculum. This curriculum consists of the following three components:

- The study of basic content/knowledge which explores the causes and consequences of human behavior.
- The development of skills, attitudes, and values needed to perform their adult roles in an ever changing world.
- A Christian environment which encourages active student participation.

Progression of Courses

Freshman: World History 1 and 2 (required)

Sophomore: We The People (required)

Junior: US History 1 and 2 (required)

Senior: US Government (required)

Electives:

Applied Economics, Sociology, Psychology, Advanced European History, Current World Issues

World History I (9) required

Credit: 1 1st semester

World History I is a survey course of world events from 1815 to 1920. It will focus on the following; the Age of Revolutions, the Industrial Revolution, the growth of Nation-states and the rise of nationalism, the Age of Imperialism, World War I and the Russian Revolution.

World History II (9) required

Credit: 1 2nd semester

World History II is a survey course of world events from 1920 to present times. It will focus on the following; The rise of totalitarianism, World War II, the Cold War, Nationalism and the independence movement in Asia and Africa, the rise of third world nations, the fall of Communism, and the study of current world events.

We The People (10) required

Credit: 1 Meets for 1 semester

We The People is an intense study of how the constitution came into existence and why it took the form it did. After this brief historical review of our founding fathers efforts, students will be presented with real controversies (involving our Bill of Rights) and assigned to participate (as citizens) in the solving of these problems. Through this the student will gain a better understanding of their role as citizens, as well as the responsibilities that accompany that role.

U.S. History I (11) required

Credit: 1 Meets 1st semester only

U.S. History I examines the following topics: Westward Expansion; Civil War and Reconstruction; Industrialization; Politics and Immigration in the Gilded Age; American Expansion and World War I.

U.S. History II (11) required

Credit: 1 Meets 2nd semester only

U.S. History II examines the following topics: Peace and Prosperity of the 1920s; Depression and New Deal; World War II; 1950s and Korea; 1960s and Civil Rights; Vietnam; 1970s; 1980s; 1990s; 21st century.

U.S. Government (12) required

Credit: 1 Meets for 1 semester

U.S. Government is a course which examines the workings of the American system of government. Students will study the basics of how our federal, state, and local governments function under the Constitution of the United States. The practical and contemporary aspects of government are examined

by studying the formation and development of political parties, voting rights, the criminal justice system, the separation of powers, and civil liberties issues.

Applied Economics (10, 11, 12)

Credit: 1 Meets for 1 semester

Applied Economics has been designed to introduce students to both an understanding of basic economic theory and American businesses. Students are first introduced to the theories, and then are given the opportunity to see how these theories apply in the business world. As a part of this course, students will operate a small business of their own. During the second part of the course, students will take part in an economic computer simulation game in which they act as a management team for a company. During both the student business and the computer simulation parts of the class, students will be putting their economic knowledge to work.

Sociology (*10, 11, 12) *sophomores with approval of instructor only

Credit: 1 Meets for 1 semester

Will be offered in even graduation years (2018, 2020....)

Sociology is the study of how humans act, react, and interact with each other. Students will be introduced to a brief history of the development of sociology and the methods used to investigate and analyze the activities of society. During the early units of study, students will analyze areas such as: status, role, socialization process, conformity and deviance, social class and mobility, and the social institutions. The later units will emphasize present social problems (such as, violence in American, discrimination vs. minorities, the plight of the homeless, the impact of sports on society, and the impact of technology on society). After analyzing these concepts and problems, students will be better able to identify methods of utilizing human potential to improve the quality of life.

Current World Issues (10, 11, 12)

Credit: 1 Meets for 1 semester

Prerequisite: Instructor Approval Required

An application form needs to be filled out and handed in. (See Mr. Schnieders for the form)

Current World Issues will be designed to focus in on the current major world issues and events.

Psychology (*10, 11, 12) *sophomores with approval of instructor only

Credit: 1 Meets for 1 semester

Will be offered in odd graduation years (2017, 2019...)

Psychology is the study of people as individuals. This course includes the study of learning behaviors, and what helps us to become individuals. The student will gain a better understanding of themselves through the study of such topics as memory, stress, sensation and personality, as well as the transitions that occur through an individual's life span.

(H) Advanced European History (12)

Credit: 2 Meets for 2 Semesters

Prerequisite: Instructor Approval Required

- An application form needs to be filled out and handed in. (See Mr. Schnieders for the form)
- A GPA of at least 3.4 or higher
- A letter grade of at least a B in Mr. Schnieders World History class.

The Advanced European History, while no longer an AP class, is still an advanced college level class. It will cover European History from the Mid-17th Century up to present time. The class will still focus in on the different intellectual, social, political, economic and diplomatic events that occurred in this time and would shape history during this time period. Special emphasis will be placed on the study of both World War I and World War II in regard to both cause and effect.

FOREIGN LANGUAGE

Note: College bound students should carefully check entrance requirements at their intended schools with regard to grades and credits needed. Many colleges expect a grade of C- or better in your final semester of high school Foreign Language. Locally, the University of Iowa has the greatest expectations. It would be wise to check the college's graduation requirement as well. Some of those may be met by taking 4 years of a Foreign Language in high school.

Spanish I (9, 10, 11)

Credit: 2

Meets for 2 semesters

Fee: \$20.00, subject to change

Spanish I introduces the student to the basics of the Spanish language. Students will learn to use the basic tools for speaking and writing in Spanish. Students will practice pronunciation and speaking, and will be introduced to Hispanic culture through a variety of activities.

Spanish II (9, 10, 11, 12)

Credit: 2

Meets for 2 semesters

Fee: \$20.00, subject to change

Faculty signature required: present teacher or department chair if not currently enrolled in

Spanish

Prerequisite: must have had a C- or above in Spanish I.

The main emphasis of Spanish II is the use of the Spanish language through conversation, reading and writing. Both grammar and culture will be studied in greater detail.

Spanish III (9, 10, 11, 12)

Credit: 2

Meets for 2 semesters

Faculty signature required: present teacher or department chair if not currently enrolled in

Spanish

Prerequisite: must have had a C- or above in Spanish II.

Fee: \$20.00, subject to change

Spanish III is for the serious Spanish student who wants to develop competency in the language. The third year students will put into practice the skills learned in levels I and II. Speaking will become a more important factor in the student's grade. Knowledge of grammar, vocabulary and culture will be expanded.

Spanish IV (12)

Credit: 2

Meets for 2 semesters

Faculty signature required: present teacher or department chair if not currently enrolled in

Spanish

Prerequisite: must have had a C- or above in Spanish III.

Fee: \$20.00, subject to change

Spanish IV is for the serious Spanish student who wants to become even more competent in language communication. The fourth year students will again be practicing their use of Spanish with reading, speaking, writing and listening activities. Students will be reading longer, more authentic works of literature and will write compositions analyzing what has been read.

PHYSICAL EDUCATION

The Physical Education Department classes are designed to offer diversity, choice and ultimately more awareness of lifetime fitness/health issues for our students. Each of the classes below meet state physical education requirements. It is important to note that Physical Education Foundations is a required course for all incoming freshmen. It is also a prerequisite for all other physical education classes. In each of our course offerings, our students are exposed to a variety of individual, team, and lifelong activities. Some community facilities will be used to enhance particular units which may require a small user fee. Opportunities will be provide to develop further skills of responsibility, stress management in competitive situations, leadership and self-esteem as well as social skills.

Physical Education Foundations (9) - Required

Credit: 1

Meets for 1 semester

This course provides opportunities for students to acquire the knowledge and skills needed to engage in a physically active, healthy lifestyle throughout life. Three areas of focus in the course are: health-related fitness, lifetime physical activity, and wellness concepts and skills.

Physical Education (10, 11, 12)

In this course, students will have the opportunity to be physically active. Many individual and team activities will be addressed with a focus on an active lifestyle when you graduate. Skills of games, cooperation, competition, fitness, and having fun are key components of this class. Many activities will be introduced and active participation is a major expectation. In addition to indoor and outdoor activities, the use of our strength and conditioning room will be offered.

Strength and Conditioning (10, 11, 12)

Credit: 1

One semester class

Strength and Conditioning is a class that works on strength, conditioning, quickness, agility, and other physical attributes of our students. Students will have the opportunity to engage in many indoor and outdoor activities in a cross training atmosphere. In addition, students will get to exercise in our new strength and conditioning room. This is not just a "weightlifting" class, as the focus is on total fitness and active lifestyles. All students; male, female, athlete, non-athlete are encouraged to participate in this class to better themselves physically and learn the skills to lead a physically active lifestyle and reach for total fitness.

BUSINESS EDUCATION

All business courses are elective. However, they provide a solid foundation for both college and career- related fields and therefore it is highly recommended that you consider including them when selecting your high school credits

Students are required to have one technology credit to graduate.

Computer Skills (9, 10, 11, 12)

Credit: 1

Meets for 1 semester - maximum per period 20

Computer Skills is designed to teach the most common uses of computers and to develop proper keyboarding techniques, build speed and accuracy, and format both business and personal documents. No previous computer experience is necessary. Since our world is becoming more and more technology driven, it is important to be proficient in using word processing, database, spreadsheet, charting, and presentation software. This course is meant for students entering the working world after high school, or for students entering a college or technical school.

Accounting I (10, 11, 12)

Credit: 1

Meets for 1 semester

Accounting I is a course designed to begin learning a system of acceptable recordkeeping techniques for a small business. It also encompasses many personal consumer skills. Accounting will be done both manually and on the computer. No prior computer experience is necessary. Accounting is an excellent background for many college business classes and a foundation for a variety of careers. It is recommended that both accounting I and II be taken, but it is not required.

Accounting II (10, 11, 12)

Credit: 1

Meets for 1 semester

Prerequisite: Accounting I

Accounting II is a continuation of Accounting I. Emphasis is placed on being an accountant for a partnership or corporation. Payroll accounting is also studied. Again, some work will be done manually and some work will be done on the computer. This course is very helpful if you plan on majoring in business in college or pursuing a career in the field of business.

Accounting III (11, 12)

Credit: 1

Meets for 1 semester

Prerequisite: Accounting II

Accounting III is an advanced course designed for students (1) who want to major in accounting or some other phase of business in college; or (2) who want to work in an accounting field following high school.

Accounting IV (11, 12)

Credit: 1

Meets for 1 semester - maximum per period 20

Prerequisite: Accounting III

Accounting IV is a continuation of Accounting III. It is for students who want to be employed as an accountant, or who wish to major in Business of Accounting in college. The emphasis will be on management and cost accounting. Some time will be spent doing spreadsheet accounting.

Intro to Business (9, 10, 11, 12)

Credit: 1

Meets for 1 semester

This course is designed to give students a general overview of business management and ownership. Along with the basic skills needed to be successful in the business world.

Marketing (11, 12) Replaces Yearbook/Newspaper**Credit: 2 Meets for 2 semesters****Students must apply for enrollment in Marketing and must be accepted into the class by the instructor.**

Marketing will provide students with different elements of design and principles for effective yearbook construction including budget, advertising, business plan, and effective marketing for the school yearbook. This will culminate in the production of the school yearbook. In addition, the school newspaper will be part of the production elements of this class.

Business Law (10, 11, 12)**Credit: 1****Meets for 1 semester (minimum of 10 students needed to teach the class.)**

A personal use course which focuses on the legal environment and laws that govern society. The student will gain an understanding and appreciation of the legal system.

Credit: 1**Meets for 1 semester****Required for incoming 9th graders (exemption may only be granted with administrator approval)**

21st Century Skills is a course focused on keeping students up with the changes in the 21st Century. This course will be a mixture of high school orientation and skills for effective students of high school and life after school. As well as, 21st century skills such as employability skills and financial literacy.

Students will:

- 1) Develop skills to become better students for life: study skills, responsibility, accountability, discipline, and time management.
- 2) Understand areas of soft skills, or emotional intelligence (EI), or employability skills as outlined by the United States Department of Labor.
- 3) Orientate to life in high school
- 4) Apply and understand necessary skills for personal finance:
- 5) Understand the idea that short-term decisions have an enormous impact on them in the long-term.

FAMILY AND CONSUMER SCIENCE

Valuable life skills for both male and female students are taught in the Family and Consumer Sciences Department. The courses include Foods and Nutrition, Child Development, Independent Living and Clothing. These are activity courses with plenty of “hands on” learning experiences.

The emphasis in the Family and Consumer Sciences curriculum is to teach the student the necessary skills to live independently and become caring and informed consumer, parents and community citizens. These skills are nurtured within our Catholic environment in order to challenge a student academically, develop their individual faith, and to grow in their family and community relationships. A large part of the learning comes from doing and participating in labs and community activities.

All students are encouraged to explore any and all courses in the Family and Consumer Sciences field. High expectations coupled with a friendly atmosphere are conducive to learning skills that will be beneficial to each student for a lifetime.

Clothing I (9, 10, 11, 12)

Credit: 1

Meets for 1 semester - normally, will be taught 1st semester

Prerequisite: students will provide their own sewing materials

Fee: \$20.00, subject to change

Clothing I is for the students who have little or no knowledge of clothing construction. Students will learn the basic techniques in operating a machine, selecting fabric and pattern and constructing three or more garments.

Clothing II (9, 10, 11, 12)

Credit: 1

Meets for one semester - Normally, 2nd semester

Prerequisite: Students will provide their own sewing supplies.

Fee: \$20.00, subject to change

Clothing II is designed for the students who have previous sewing experience. Students will select sewing patterns which include construction details that they have not mastered from Clothing I. Students will also cover clothing alterations for constructed and purchased garments. Students will explore careers related to the clothing industry.

Normally, Clothing II will be taught 2nd semester. A student taking Clothing I 1st semester would be able to take Clothing II 2nd semester.

Food And Nutrition (10, 11, 12)

Credit: 1

Meets for 1 semester - maximum per period 20

Fee: \$30.00, subject to change

The Food and Nutrition I course will expose students to the basic techniques needed for food preparation. Food areas studied include meat, vegetables, fruits, pastry, cakes, eggs, breads, etc. Nutrition, meal planning, and eating disorders will also be studied.

Food And Nutrition II (10, 11, 12)

Credit: 1

Meets for 1 semester

Prerequisite: Student needs to complete Food and Nutrition I successfully

Fee: \$30.00, subject to change

Food and Nutrition II is an extension of Food and Nutrition I. This course will allow students to practice basic cooking principals and meal preparation in depth. More time will be spent on complete meal planning, equipment and kitchen utensil use, meat cookery, milk, cheese, and egg products. This unit will also include entertaining, etiquette, and foreign foods.

Child Development (11, 12)

Credit: 1

Meets for 1 semester

Fee: \$20.00, subject to change (workbook and activity supplies)

Child Development will provide the students with knowledge of pregnancy and prenatal development. The physical, emotional, intellectual and social development of children from birth to age one will be studied.

Independent Living And Wellness (12)

Credit: 1

Meets for 1 semester

Fee: \$20.00, subject to change

Independent Living and Wellness is for all students who want to learn how to make fundamental decisions in order to successfully live independently and healthy after leaving high school. The students will explore many areas of basic survival such as cooking, laundry, establishing credit, home decorating, sewing, and healthy lifestyle choices.

Independent Study In Family And Consumer Sciences (11, 12)

Food and Nutrition

Clothing

Meets for 1 semester Prerequisite: Teacher approval Fee: \$10.00, subject to change

Normally, these classes will be offered second semester and will be taught at the same time as Clothing II/Foods II.

A student can take the opportunity to study an area in the field of family and consumer sciences for personal growth or further exploration in a specific area of study not covered in the regular classroom. This independent study coursework is for junior or senior students.

VISUAL ARTS

Mission: The mission of an Art Department is to provide experiences that will permit students to develop visual literacy, production and problem solving skills, knowledge of art history, and a desire to participate in art activities the rest of their lives.

Art I – Introductory Art (9,10,11,12)

Credit: 1

Meets for one semester

Prerequisite: none

Fee: \$25.00, subject to change

This course provides an introduction to the many forms that art may take, to careers, art history, and art appreciation. Participation art is emphasized as a broad sampling or techniques and media are explored.

Art II – Foundations of Art (9,10,11,12)

Credit: 1

Meets for one semester

Prerequisite: Art I

Fee: \$25.00, subject to change

After the basics in Art I, the second course of art offers an opportunity to learn more complex techniques in all areas. Quality of work and the creative use of skills are emphasized.

Art III – Intermediate Art (10,11,12)

Credit: 1

Meets for one semester

Prerequisite: Art I, Art II

Fee: \$25.00, subject to change

Intermediate art course allows students to explore selected areas in-depth. This course has different content and the student can be more selective in their study of art. If you are planning to be an Art Major, it is recommended that you take one or more of the following: ceramics, jewelry or photography, painting, drawing

Art Major – Advanced Art (12)

Credit: 1 per semester

Meets for one semester – may be taken for more than one semester

Prerequisite: Art I, Art II, plus 2 additional classes, or once finished highest level of a media course

Need Teacher Approval

Fee: \$25.00

Students with at least three courses of studio art credits are eligible for this challenging course. An opportunity is available to develop a collection of individual work (a portfolio) based on original concepts, rather than class assignments. The portfolio is useful for scholarship applications, career searches and job interviews.

Ceramics (10,11,12)

Credit: 1

Meets for 1 semester

Prerequisite: Art I

Fee: \$30.00, subject to change

Student projects are oriented toward the enjoyment of clay and an understanding of the part ceramics plays in society - - Themes in this course include form and function, nature, history, and fantasy.

Advanced Ceramics (10,11,12)

Credit: 1

Meets for 1 semester

Prerequisite: Art I, Ceramics – Instructor Approval**Fee: \$30.00, subject to change**

The advanced ceramics will allow students an opportunity to learn more complex techniques in design, using coil method, slab method, wheel method, and sculpture.

Photography (10,11,12)**Credit: 1****Meets for 1 semester****Prerequisite: Photoshop/Art I****Fee: \$30.00, subject to change**

Creative Photography will explore the variety of mediums within photography, as well as art concepts. You will learn to operate a DSLR camera, take intriguing photographs and digitally enhance images in Photoshop. This will allow for a well rounded study in Photography, and hopefully will give you a greater understanding of the subject.

Advanced Photography (10,11,12)**Credit: 1****Meets for 1 semester****Prerequisite: Photography****Fee: \$30.00, subject to change**

After exploring the several outlets of photography, advanced photography will allow you to go even further. You will be able to explore your passions within photography and make art. This class is for those that are interested in focusing on furthering their interests and focused on developing their skills as a fine art photographer. You will need to use the composition abilities learned in Creative Photography to explore furthering your skills in Digital Photography.

Drawing (9,10,11,12)**Credit: 1****Meets for 1 semester****Prerequisite: Art I****Fee: \$30.00, subject to change**

Drawing is an introductory art course for students of all skill levels that explores various techniques and media through working in a studio-like atmosphere. Drawing is a bases for all fine art; it encompasses the basic skills needed for fine arts. Over the semester students will develop their artistic vocabulary, use of expression, and understanding of 2-dimensional compositions. Also, students will learn the technical skills to draw from observation and imagination as well as how to use a large range of materials. Finally, students will explore visual observation and communication using line, value, design and texture. More advanced applications will be introduced such as in-depth look at perspective and proportion.

Painting (10,11,12)**Credit: 1****Meets for 1 semester****Prerequisite: Art One; recommended drawing or instructor approval****Fee: \$30.00, subject to change**

Painting is an introductory art course for students to explore various techniques and media through working in a studio-like atmosphere. Over the semester students will develop their artistic vocabulary and explore painting techniques and color. Also, students will learn about composition and the technical skills used in painting.

MUSIC

Choir (9, 10, 11, 12)

Credit: 2 (1 credit per semester)

Meets for 2 semesters - Students are required to sign up for both semesters unless approved by instructor in advance

There are three components to Choir that students explore during the year:

Concert Choir, Mass Choir, After School Choir (offered as an extracurricular for students interested)

Students attend Concert Choir rehearsal during the school day. The Concert Choir works to prepare literature in order to develop cultural awareness and ensemble skills. Students will develop skills in rhythm, vocal technique, sight reading and improving their performance skills in this course.

Singing as part of the Mass Choir is a service provided to Columbus Catholic High School by the choir program. Students prepare hymns and other liturgical music to sing at school Masses each month. Students are required to sing at all school Masses as part of this course.

Each student has individual 15-minute lessons, which take place approximately 4 times throughout the semester. The purpose of lessons is to develop vocal technique and ear training skills. Students also use this time to prepare festival music, such as All- State and Solo/Ensemble contest, as each student's interests dictate.

After School Choir (9, 10, 11, 12)

Extracurricular

Meets for 2 semesters

After School Choir performs for a number of in-school and out-of-school events, which include concerts, contests, and Mass. All rehearsals and events are mandatory. A variety of styles of music are studied. This is an outside of school extracurricular activity that meets for two semesters. Students who have 3 unexcused absences are removed from this ensemble.

Band (9, 10, 11, 12)

Credit: 2 (1 credit per semester)

Meets for 2 semesters - Students are required to sign up for both semesters unless approved by instructor in advance

Prerequisite: previous instrumental training and/or instructor approval

There are three components to Band that students explore during the year:

Concert Band, Pep Band, Jazz Band (offered as a separate course for students interested)

Students attend Concert Band rehearsal during the school day. The Concert Band works to prepare band literature in order to develop cultural awareness and ensemble skills. Students will develop skills in rhythm and note reading. Students will also study history and theory relevant to the music being played.

Pep Band is a service provided to Columbus High School by the Band Program. Band students play arrangements of popular music to entertain crowds at sporting events. Students are required to attend a certain number of Pep Band events as part of the Concert Band class.

Each student has individual 15-minute lessons, which take place approximately 4 times throughout the semester, to develop technique on his/her instrument. These lessons are graded on preparation, note accuracy, rhythmic accuracy, phrasing, dynamic, articulation, and other factors on a level appropriate to each individual student. Students will also use this time to work on music for festivals such as Solo and Ensemble, All- State, etc., as each student's interests dictate.

Small groups, individuals, and the entire Band (when possible) may perform as part of worship at school liturgies. Spiritual growth and worship through music are two appropriate goals of the Band at Columbus Catholic High School.

Jazz Band

Extracurricular

Meets for 2 semesters

Jazz Band performs for a number of in-school and out-of-school events, which include concerts, contests, and Pep Band. All rehearsals and events are mandatory. A variety of styles of music are studied as well as jazz improvisation and techniques. This is an outside of school day activity that meets for two

semesters. Signing up for Jazz Band is a **yearlong** commitment due to the performance schedule. Students are required to attend a certain number of Pep Band events as part of the Jazz Band. Students who have 3 unexcused absences are removed from this ensemble.

ENGLISH LANGUAGE LEARNING

ELL 01 (Level determined by assessment)

Credit: 2

Meets both semesters

This is an ESL course designed for *beginning to high-beginning* English-language learners. Because of the amount of time these students have spent in the United States, their receptive skills (listening, reading) are more highly developed than their productive skills (writing, speaking), but all skills are at a rudimentary level.

ELL 02 (Level determined by assessment)

Credit: 2

Meets both semesters

This is an ESL course designed for *emerging* English-language learners whose receptive skills (listening, reading) are somewhat better than their productive skills (writing, speaking).

ELL 03 (Level determined by assessment)

Credit: 2

Meets both semesters

This is an ESL course designed for *developing* English-language learners. These students have basic conversational speaking skills, are able to formulate questions based on class content, and can comprehend highly contextualized responses and explanations.

ELL 04 (Level determined by assessment)

Credit: 2

Meets both semesters

This is an ESL course designed for more advanced English-language learners.

21st CENTURY SKILLS**Credit: 1****Meets for 1 semester****Required for incoming 9th graders (exemption may only be granted with administrator approval)**

21st Century Skills is a course focused on keeping students up with the changes in the 21st Century. This course will be a mixture of high school orientation and skills for effective students of high school and life after school. As well as, 21st century skills such as employability skills and financial literacy.

Students will:

- 1) Develop skills to become better students for life: study skills, responsibility, accountability, discipline, and time management.
- 2) Understand areas of soft skills, or emotional intelligence (EI), or employability skills as outlined by the United States Department of Labor.
- 3) Orientate to life in high school
- 4) Apply and understand necessary skills for personal finance:
- 5) Understand the idea that short-term decisions have an enormous impact on them in the long-term.

Iowa Learning Online (New)

Iowa Learning Online (ILO) is a state-run system that has provided high-quality online courses to school districts since 2004. This is for courses not offered at the school district, to alleviate a scheduling conflict, for credit recovery, for homebound students, and for alternative education.

Classes that we would offer (because they are not available at Columbus or through dual enrollment):

- Marine Science
- Geography
- Art History and Criticism
- Chinese I and II
- French I, II, III and IV
- German I and II
- Latin I and II

Students should visit with the school counselor for more information regarding these courses and interest in pursuing online education.

These courses have a fee of \$250 per semester. This is in addition to tuition for Columbus High School.

OUR MISSION

*To provide an exceptional Catholic
education for every student,
built on a foundation of faith,
discipline, knowledge and service.*

COLUMBUS CATHOLIC HIGH SCHOOL

*3231 West 9th Street
Waterloo, Iowa 50702
(319) 233-3358*