



CEDAR VALLEY
CATHOLIC SCHOOLS

**Columbus Catholic High School
2020-2021 Course Guide**

TABLE OF CONTENTS
2020-2021 Course Guide

I.	Four-Year Planning	Page 1
II.	Theology	Page 1
III.	English	Page 5
IV.	English Language Learner	Page 8
V.	Mathematics	Page 8
VI.	Computer Science	Page 12
VII.	Science	Page 14
VIII.	Social Studies	Page 18
IX.	Foreign Language	Page 20
X.	Physical Education	Page 22
XI.	Vocation-Focused Elective	Page 23
XII.	Business Education	Page 23
XIII.	Family/Consumer Science.....	Page 24
XIV.	Visual Arts	Page 26
XV.	Music	Page 27
XVI.	Online Learning - Edgenuity	Page 29
XVII.	Planning for Academics Beyond Columbus	Page 29

2020-2021 COURSE PLANNING GUIDE

I. Four-Year Planning

- All Columbus Catholic 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 Catholic graduate must meet the following credit requirements for graduation.

1. Eight credits of Theology (as many semesters as attending CHS)
2. Eight credits of English
3. Six credits of Science
4. Six credits of Social Studies
5. Six credits of Mathematics
6. Four credits of Physical Education
7. One credit of Financial Literacy
8. One credit of Technology
9. Remaining credits are electives.

**A minimum of 49 credits are required for graduation.

II. Theology

“Love One Another As I Have Loved You” - Jesus Christ

The Theology curriculum at Columbus Catholic High School is a study and an experience of our loving God as expressed in the Catholic Christian faith. It provides students an opportunity to come to know Jesus Christ more fully in their daily lives. The learning environment fosters Christian attitudes necessary for a mature faith response to Jesus Christ.

Through instruction in theology, students acquire knowledge of basic Catholic teaching and an understanding of how God communicates in today's world. Through class instruction, worship, prayer, and service, students develop a growing awareness of, and appreciation for the spiritual dimensions of their lives, the need for a healthy self-esteem, attitudes of caring and tolerance, a commitment to justice and peace, and the need for lifelong personal growth.

In providing opportunities to ask questions and seek the truth, students are encouraged and challenged to develop a personal faith relationship with Jesus Christ and to be prepared to witness this faith in the community.

God's Revelation Through Jesus (9) 07001 G 050 00

Credit: 1 1st Semester

The purpose of this course is to give students a general knowledge and appreciation of the Sacred Scriptures. Through their study of the Bible students will come to encounter the living Word of God, Jesus Christ. In the course they will learn about the Bible authored by God through Inspiration, and its value to people throughout the world. Students will learn how to read the Bible and will become familiar with the major sections of the Bible and the books included in each section. Students will pay particular attention to the Old Testament, where they will get a foundation for the Judeo-Christian faith. United States Conference of Catholic Bishops (USCCB) Curriculum.

The Mission and Ministry of Jesus (9) 07006 G 050 00

Credit: 1 2nd Semester

Who is Jesus Christ? The purpose of this course is to dive deeper into the origins of our faith and to introduce students to the mystery of Jesus Christ, the living Word of God, the Second Person of the Blessed Trinity. In this course students will understand that Jesus Christ is the ultimate Revelation to us from God. In learning about who he is the students will also learn who he calls them to be. United States Conference of Catholic Bishops (USCCB) Curriculum.

Jesus: Our Salvation (10) 07 009 G050 10

Credit: 1 1st semester

Christ's Mission...The Paschal Mystery. The purpose of this course is to help students understand all that God has done for us through his Son, Jesus Christ. Through this course of study, students will learn that for all eternity, God has planned for us to share eternal happiness with him, which is accomplished through the redemption Christ won for us. Students will learn that they share in this redemption only in and through Jesus Christ. They will also be introduced to what it means to be a disciple of Christ and what life as a disciple entails. United States Conference of Catholic Bishops (USCCB) Curriculum.

The Church (10) 07009 G 050 20

Credit: 1 2nd Semester

Christ's Mission Continues in the Church. The Purpose of this course is to help students understand that in and through the Church they encounter the living Jesus Christ. They will be introduced to the fact that

the Church was founded by Christ through the Apostles and is sustained by him through the Holy Spirit. The students will come to know that the Church is the living body of Christ today. The Body has both divine and human elements. In this course, students will learn about events and people in 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) 07011 G 050 00

Credit: 1 1st Semester

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) 07013 G 050 00

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.

Christian Service (12) 07998 G 050 00

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 have a preliminary discussion with Miss Brown before scheduling.**
- Students who are representing Columbus Catholic 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) 07014 G 050 00

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) 07015 G 050 00

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.

Theology Electives

In addition to the eight previous courses that all students take, the following courses are elective opportunities for students who wish to dig deeper into specific facets of faith and God.

Introduction to Catholic Apologetics (10, 11, 12) 07018 G 050 00

Credit: 1 Meets for 1 semester

I know what we are supposed to believe as Catholics, but why? Do we worship Mary and the Saints? Where does it say that the blood and wine turn into the body and blood of Jesus? All religions are basically the same, but Catholics are just more strict right? This course is designed to help understand and defend your faith to others as well as yourself. Bring all of your questions and be prepared to teach your friends and family, even your parents, something they have always said or done but did not know why. Apologetics is not a course developed to attack other religions but to clear up questions regarding the Catholic faith for all belief systems. The objective of this course is not to create theoretical apologists, but to give participants the information needed to overcome questions or doubts placed before them in these challenging times in a fun discussion driven class based on real life experiences.

Prayer and Spirituality (11, 12) 07012 G 050 00

Credit: 1 Meets for 1 semester

“Let your religion be less of a theory and more of a love affair.” - G.K. Chesterton.

The Spirituality and Prayer course is for those students who seriously want to develop their relationship with God. The class centers on prayer, the Eucharist, and sharing of faith. Students will participate in the Mass, spiritual reading of Catholic giants of faith, sharing of faith with other students, individual prayer, group prayer, and a retreat experience. During this semester, students will spend less time learning dogmatic ideas about God and more time applying the faith they have learned to work in developing their souls.

III. English

The English department at Columbus Catholic consists of courses that are taught in an integrated style which involves all of the language arts (reading, speaking, listening, writing and thinking). In all of the courses students will be expected to develop and use each of these language arts skills in a variety of ways.

All students must take eight credits of English. Each student is required to take and pass an English 9, English 10, English 11, and English 12 course to graduate. If a student fails to receive a credit for a semester, that semester must be repeated prior to graduation. A student who is successful in English may want to choose to take an elective course in English.

English 9

Credit: 2 Meets for 2 semesters

First Semester: 01001 G 050 10

Second Semester: 01001 G 050 20

Placement by 8th grade teacher and assessment scores

This course is designed to expose students to the literary techniques of short stories, drama and novels as well as developing writing skills through instruction in grammar, composition and library usage. The student is offered a program that enables him/her to speak, listen, read and write with increasing understanding.

Accelerated English 9

Credit: 2 Meets for 2 semesters

First Semester: 01001 H 050 10

Second Semester: 01001 H 050 20

Placement by 8th grade teacher and assessment scores

This course is designed for the individual who has excelled in English and language arts and who wishes to be challenged in this subject area. The course includes units in literature, grammar, composition and library research, covering more and a greater variety of material than English 9. Emphasis will be placed on inquiry and higher order thinking skills. The student is offered a program that enables him/her to speak, listen, read and write with increasing understanding.

English 10

Credit: 2 Meets for 2 semesters

First Semester: 01002 G 050 10

Second Semester: 01002 G 050 20

In 10th grade, students study literature from around the world. This focus on world literature traces the etymology of the English language and explores literature from Latin and Central America, Asian Literature, African and Middle Eastern Literature, Russian Literature, and Great Depression Literature. This course is designed to help students develop their language arts skills. Along with strengthening the 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. Speech and writing place emphasis on effective use of language as a tool of self-expression.

Accelerated English 10

Credit: 2

Meets for 2 semesters

First Semester: 01002 H 050 10

Second Semester: 01002 H 050 20

Prerequisite: Acc. English 9 or teacher approval

This course 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 genres will be taught as well as additional writing skills. Speech and writing place emphasis on effective use of language as a tool of self-expression.

English 11 Composition/Literature

Credit: 2

Meets for 2 semesters

First Semester: 01102 G 050 00

Second Semester: 01053 G 050 00

This course 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 second 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 (AP) 11 English Language and Composition

Credit: 2

Meets for 2 semesters

First Semester: 01005 H 050 10

Second Semester: 01005 H 050 20

Prerequisite: Acc. English 10 or teacher approval

This course 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 principles 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 this course 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.

College Prep Composition/Literature 12

Credit: 2

Meets for 2 semesters

First Semester: 01006 E 050 10

Second Semester: 01006 E 050 20

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.

Concurrent Enrollment

English 1500 The Process of Composition (12) 01103 C 033 10

3 St. Louis University Credits

Students must meet minimum competency scores to qualify. (ACT 19+/Accuplacer 82+/Accuplacer Next Gen 253+). There may be a textbook fee for this class.

Develops effective personal and expository prose writing skills, including methods of invention, organization, audience analysis, and style. Focuses on the compositional process.

Concurrent Enrollment

English 1900 Advanced Strategies of Rhetoric and Research (12) 01103 C 033 20

3 St. Louis University Credits

Prerequisite: Passing grade in Composition I

There may be a textbook fee for this class.

Studies complex structures of language including its logical and persuasive possibilities. Emphasizes analytical reading, critical thinking, and research methodology skills.

Prerequisite(s): (ENGL 1500, ENGL 1505, ACT English with a minimum score of 25, SAT Verbal with a minimum score of 600, EVIDENCE-BASED READ/WRIT SCORE with a minimum score of 600, English Waiver per Advisor with a minimum score of 1500, or SLU English Portfolio with a minimum score of P).

Creative Fiction (9,10,11,12) 01061 G 050 00

Credit: 1 Meets for one semester

This one semester course is a mixture of reading and writing. It includes poetry, short story, drama, essays, and other forms of prose, plus reading of fiction works. This may include novels, short stories, and poetry.

Film as Literature (9,10,11,12) 01099 G 050 00

Credit: 1 Meets for one semester

This one semester course involves viewing, studying, analyzing, discussing, and writing about various films. Keep in mind that this course is meant to develop your critical thinking and writing skills, it is not simply watching movies every day.

Journalism(Research & Technical Writing) (9,10,11,12)

Credit: 2 Meets for 2 semesters

First Semester: 11105 G 050 10 Second Semester: 11105 G 050 20

This year long course is a replacement of Yearbook. Along with working on the yearbook, students will learn the ins and outs of journalism. Students will create a bi-weekly school newspaper that will incorporate school, local, national, and global news. The newspaper will also allow for a variety of other articles, such as opinion columns and Sailor Highlights. Students will also participate in digital media by

creating podcasts and video news segments that will be available to view online. Students are encouraged to take the course for the full year but exceptions may be made for those who can not fit the course for both semesters.

(Research/Technical Writing classes prepare students to write research papers and/or technical reports. These classes emphasize researching (primary and secondary sources), organizing (material, thoughts, and arguments), and writing in a persuasive or technical style.)

Performing Arts/Drama (9,10,11,12) 01151 G 050 00

Credit: 1 Meets for one semester

This one semester course will introduce students to the fundamentals of theatre arts. Students will grow in confidence, creativity, leadership, and collaboration skills through this course.

IV. English Language Learning

ELL 01 English as a Second Language (Level determined by assessment)

Credit: 2 Meets both semesters

First Semester: 01008 S 050 11 Second Semester: 01008 S 050 21

This English as a Second Language (ESL) course is designed for the acquisition and mastery of the English language, focusing on reading, writing, speaking, and listening skills.

ELL 02 Progressing ESL English (Level determined by assessment)

Credit: 2 Meets both semesters

First Semester: 01008 S 050 12 Second Semester: 01008 S 050 22

This is an ESL course designed for *progressing* English-language learners. This course continues to build the acquisition of mastery of the English language, focusing on reading, writing, speaking, and listening skills.

ELL 03 English Proficiency Development (Level determined by assessment)

Credit: 2 Meets both semesters

First Semester: 01008 S 050 103 Second Semester: 01008 S 050 23

English Proficiency Development courses are designed to assist students in acquiring the skills necessary to pass proficiency examinations.

ELL 04 English Proficiency Development (Level determined by assessment)

Credit: 2 Meets both semesters

First Semester: 01008 S 050 14 Second Semester: 01008 S 050 24

English Proficiency Development courses are designed to assist students in acquiring the skills necessary to pass proficiency examinations.

V. 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: Algebra I, Geometry, Algebra II, Acc. Pre-Calculus and/or Concurrent Enrollment course(s)

Pathway #2: Acc. Algebra I, Acc. Geometry, Acc. Algebra II, Acc. Pre-Calculus, AP Calculus and/or Concurrent Enrollment course(s).

****PLEASE NOTE:** A student has the ability to move from one pathway to another in individual circumstances.

Math Skills (9)

Credit: 2 Meets for 2 semesters

First Semester: 02003 G 050 10

Second Semester: 02003 G 050 20

These courses examine particular topics in Foundation Mathematics, such as arithmetic, sequences, or basic conceptual skills, rather than provide a general overview.

Algebra I (9, 10, 11, 12)

Credit: 2 Meets for 2 semesters

First Semester: 02052 G 050 10

Second Semester: 02052 G 050 20

Placement by 8th grade teacher and assessment scores

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

Credit: 2 Meets for 2 semesters

First Semester: 02052 H 050 10

Second Semester: 02052 H 050 20

Placement by 8th grade teacher and assessment scores

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

Credit: 2 Meets for 2 semesters

First Semester: 02072 G 050 10

Second Semester: 02072 G 050 20

Prerequisite: Algebra I

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

Credit: 2 Meets for 2 semesters

First Semester: 02072 H 050 10

Second Semester: 02072 H 050 20

Prerequisite: Accelerated Algebra I or teacher approval

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

Credit: 2 Meets for 2 semesters

First Semester: 02056 G 050 10

Second Semester: 02056 G 050 20

Prerequisite: Algebra I and Geometry

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. This course is required for any student who plans to attend college.

Accelerated Algebra II

Credit: 2 Meets for 2 semesters

First Semester: 02057 H 050 10

Second Semester: 02057 H 050 20

Prerequisite: Accelerated Geometry or teacher approval

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

Credit: 2 Meets for 2 semesters

First Semester: 02110 H 050 10

Second Semester: 02110 H 050 20

Prerequisite: Accelerated Algebra II or Algebra II

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.

Advanced Placement (AP) Calculus AB

Credit: 2 Meets for 2 semesters

First Semester: 02124 H 050 10

Second Semester: 02124 H 050 20

Prerequisite: Accelerated Pre-Calculus

Advanced Placement Calculus AB 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.

Concurrent Enrollment

Statistics - A Hands on Approach 02205 C 033 00

Credit: 1 Meets for 1 semester

Prerequisite: Algebra 2, Accelerated Algebra 2 or Senior concurrently taking Alg. 2

This course will allow students to investigate statistical relationships including Randomness, Sample Variation, p-Values, Validity evidence, and Uncertainty and Bias. This course makes strong use of software to build visual models for description, exploration, prediction and classification. Each lab in this course will be designed to demonstrate or explore one or more topics of statistics.

Discrete Mathematics 02102 G 050 00

Credit: 1 Meets for 1 semester

Prerequisite: Geometry (preferred Algebra 2)

Mathematics to answer questions in the world around us. Topics in this course have been selected based on the following criteria:

Applicability: We will answer questions relevant to the world around us.

Accessibility: There is no material in this course that requires knowledge beyond high school algebra and Euclidean geometry.

Modernity: We will use modern methods and often look at a combination of mathematics and economics to answer questions.

Aesthetics: The world of mathematics is beautiful and will look at this beauty as it arises through often simple ideas.

Part 1: Social Choice

The Mathematics of Elections, Power, Sharing, Apportionment

Part 2: Management Science

The Mathematics of Getting Around, Touring, Networks, Scheduling

Part 3: Growth

Population Growth Models

Part 4: Statistics

Censuses, Surveys, Polls, and Studies

Graphs, Charts and Numbers

Probabilities, Odds, and Expectations

Concurrent Enrollment**Math 1510 - Calculus I****4 St. Louis University Credits****First Semester: 02121 C 033 10****Second Semester: 02121 C 033 20**

Functions; continuity; limits; the derivative; differentiation from graphical, numerical and analytical viewpoints; optimization and modeling; rates and related rates; the definite integral; antiderivatives from graphical, numerical and analytical viewpoints. (Offered every Fall, Spring and Summer)

Prerequisite(s): (Math Waiver per Advisor with a minimum score of 1400 or **MATH 1400** with a grade of C- or higher)

Attributes: Mathematics BA Req (A&S), Mathematics BS Req (A&S)

Concurrent Enrollment**MAT110 Math for Liberal Arts 02138 C 050 00****(Minimum of 10 students required)****3 Hawkeye College Credits**

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+/Accuplacer Next Gen 259+)

VI. 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.

Introduction to Computer Science 10012 G 050 00**Credit: 1 Meets for 1 Semester**

This is a required course for all first-year students who plan on graduating. Students will be introduced to the basics of Computer Science in order to properly build a foundation for programming and build a passion for the growing field.

Coding 1 10152 G 050 00

Credit:1 Meets for 1 Semester

Prerequisite: Interest in web programming

Uses the languages: HTML/CSS & Xcode Programming

This course 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.

Coding 2 10155 G 050 00

Credit: 1 Meets for 1 Semester

Prerequisite: Coding 1

Uses the languages: Javascript and Python

This course 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.

Coding 3 10154 G 050 00

Credit: 1 Meets for 1 Semester

Prerequisite: Coding 2

Uses the languages: C++ and Ruby

This course 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.

Cybersecurity 10016 G 050 00

Credit: 1 Meets for 1 Semester

Prerequisite: Introduction to Computer Science

Cybersecurity is a semester-long course that engages students in interdisciplinary real-world challenges that help develop computational thinking and computer science knowledge and skills to be successful in any career path. This course exposes students to the ever-growing and far-reaching field of cybersecurity and allows students to explore concepts such as secure information technology systems, protection against cyber threats and the ethical impact of cybersecurity situations. This is an ever changing field of study.

Tech Team 10999 G 050 00

Credit: 1 Meets for 1 semester

Prerequisite: Algebra I and Introduction to Computer Science

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 Catholic, 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.

Photoshop 10202 G 050 00

Credit: 1 Meets for 1 Semester

Prerequisite: Interest in the field of photography

This course 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 photography.

Video Editing 10203 G 050 00

Credit: 1 Meets for 1 Semester

This course 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.

Advanced Placement (AP) Computer Science Principles 10019 H 050 20

Credit: 2 Meets for 2 Semesters

Prerequisite: Algebra 1 and Introduction to Computer Science (beginning in 2022)

The AP Computer Science course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data, approaches to processing data, analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems.

VII. Science

Six credits of science are required in order to graduate from Columbus Catholic 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

First Semester: 03159 G 050 10

Second Semester: 03159 G 050 20

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) required

Credit: 2 Meets for 2 semesters

First Semester: 03051 G 050 10

Second Semester: 03051 G 050 20

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

First Semester: 03101 G 050 10

Second Semester: 03101 G 050 20

Prerequisite: Two years of math including Algebra I or teacher approval

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

First Semester: 03151 G 050 10

Second Semester: 03151 G 050 20

Prerequisite: Algebra 2 or teacher approval

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.

Advanced Placement (AP) Chemistry (10, 11, 12)

Credit: 2 Meets for 2 semesters

First Semester: 03106 H 050 10

Second Semester: 03106 H 050 20

Prerequisite: Chemistry

This course is designed to be the equivalent of a college introduction to chemistry course usually taken during students' first year of college. Some AP (Advanced Placement) students are permitted to undertake upper-level courses in chemistry or fulfill a basic requirement for a laboratory science course and will be able to pursue other courses. An end of the year cumulative test must be taken to receive college credit for the course. Topics covered in this course will include atomic structure and properties, molecular and ionic compound structure and properties, intermolecular forces and properties, chemical

reactions, kinetics, thermodynamics, equilibrium, acids and bases, applications of thermodynamics. Prerequisites will include passing chemistry, or completion of a Pre AP Chemistry Course over the summer taught by Mr. Kremer online and passing the final exam with a B or higher.

Advanced Placement (AP) Physics (10, 11, 12)

Credit: 2 Meets for 2 semesters

First Semester: 03165 H 050 10

Second Semester: 03165 H 050 20

Prerequisite: Chemistry

This course is an algebra based physics course that is designed to be an entry level physics course for college freshman. Students will be immersed in not only the mathematics of physics but also the laboratory experiences. Students will spend 25% of the class time dedicated to lab activities. Students will have the option to take the AP Physics 1 exam to determine if credit will be obtained. Acceptance of credits is decided by the individual college and determined by both AP test performance as well as evidence in the students lab manual "...no prior course work in physics is necessary for students to enroll in AP Physics 1. Students should have completed geometry and be concurrently taking Algebra II or an equivalent course. Although the Physics 1 course includes basic use of trigonometric functions, this understanding can be gained either in the concurrent math course or in the AP Physics 1 course itself."

AP Board's Website

Introduction to Engineering(Principles of Technology) (10, 11, 12)

Credit: 2 Meets 2 semesters

First Semester: 03153 G 050 10

Second Semester 03153 G 050 20

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.

Ecology And The Environment 03003 G 050 00 (10, 11, 12)

Credit: 1 Meets for 1 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 21009 G 050 00

Credit: 1 Meets for 1 semester

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.

Vex 21056 G 050 00

Credit: 1 Meets for 1 semester

Prerequisite: Robotics

This course is a level II robotics course. Unlike the EV3 kits in the Robotics class, these robots require more assembly, but that also leads to more functionality! The robot will not require actual cutting of metal nor welding. This course will guide students through the fundamentals of engineering, programming, as well as how to combine the physical machine with a software interface. At the end of the semester, students may be able to take the robot to competitions with other schools from across the state.

Applied Scientific Analysis - Crime Investigations 03214 G 050 00 (11, 12)

Credit: 1 Meets for 1 semester

Prerequisite: 2 years of science, including 1 year of Biology

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 03053 G 050 00 (11, 12)

Credit: 1 Meets for 1 semester

Prerequisite: Biology

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(Particular Topics in Biology) (10, 11, 12) 03063 G 050 00

Credit: 1 Meets for 1 semester

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.

Concurrent Enrollment

General Biology I 03051 C 056 10

4 Hawkeye Community College Credits

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.

Concurrent Enrollment

General Biology II 03051 C 056 20

4 Hawkeye Community College Credits

Prerequisite: Passing grade in General Biology I

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.

VIII. 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: Economics, Sociology, Psychology, Advanced European History, Current World Issues, U.S. History Through Film

**Economics satisfies the Iowa financial literacy requirement for graduation.

World History I and II (9)

Credit: 2 Meets for 2 semesters

First Semester - 04051 G 050 10 Second semester - 04053 G 050 20

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 is a survey course of world events from 1920 to present times. It will focus on 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 04160 G 050 00 (10)

Credit: 1 Meets for 1 semester

We The People, a civics course, 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 and II (11)

Credit: 2 Meets for 2 semesters

First semester - 04102 G 050 10 Second semester - 04103 G 050 20

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 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 04 151 G 050 00 (12)

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.

U.S. History Through Film 04149 G 050 00 (11, 12)

Credit: 1 Meets for 1 semester

Students will get to watch films dedicated to a certain person, event or era of US History. Prior to watching the movie, students will learn about the historical factors connected to the movie. Students will

do this through learning in a variety of ways to help students understand the time period. After watching the film, students will compare the movie to actual events that took place in history.

Economics 04201 G 050 10 (11, 12)

Credit: 1 Meets for 1 semester

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. Economics will also teach students financial literacy.

Sociology 04258 G 050 00 (*10, 11, 12) *sophomores with approval of instructor only

Credit: 1 Meets for 1 semester

Will be offered in even graduation years

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.

Psychology 04254 G 050 00 (*10, 11, 12) *sophomores with approval of instructor only

Credit: 1 Meets for 1 semester

Will be offered in odd graduation years

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.

Current World Issues 04106 G 050 00 (10, 11, 12)

Credit: 1 Meets for 1 semester

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

Advanced European History (12)

Credit: 2 Meets for 2 Semesters

First Semester: 04055 H 050 10 Second Semester: 04055 H 050 20

Prerequisite: Must have passed all required social studies courses aside from U.S. Government and must commit to the class in the prior spring.

Advanced European History will cover European History from the Mid-17th Century up to present time. The class will still focus 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.

IX. 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

Credit: 2 Meets for 2 semesters

First Semester: 24052 G 050 10

Second Semester: 24052 G 050 20

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

Credit: 2 Meets for 2 semesters

First Semester: 24053 G 050 10

Second Semester: 24053 G 050 20

Prerequisite: 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

Credit: 2 Meets for 2 semesters

First Semester: 24054 G 050 10

Second Semester: 24054 G 050 20

Prerequisite: Spanish II

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

Credit: 2 Meets for 2 semesters

First Semester: 24055 G 050 10

Second Semester: 24055 G 050 20

Prerequisite: Spanish III

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.

Spanish for Native Speakers

Credit: 2 Meets for 2 semesters

First Semester: 24057 G 050 10

Second Semester: 24057 G 050 20

Spanish for Native Speakers: Designed for those who speak Spanish at home, at the end of this class you would be eligible to take the bilingual competency exam. We will focus on reading and writing in Spanish in order for you to increase your knowledge of Spanish spelling and grammar for use in your future career.

Español para hispanohablantes: Diseñado para los estudiantes que hablan español en casa, al fin de este clase puedes tomar el examen de competencia bilingüe. Nos enfocamos en leer y escribir en español para aumentar tu conocimiento de la ortografía y gramática para uso en tu carrera futura.

Proposed units:

1. Read a novel and write a fiction story
2. Research paper
3. Read a biography, write an autobiography
4. Poetry
5. Write a resume, mock interview
6. Misc.: Circumlocution of word you don't know, read newspaper articles and discuss world events, instructions for making a sandwich, learn vocabulary for a profession you are interested in

X. 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.

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 provided to develop further skills of responsibility, stress management in competitive situations, leadership and self-esteem as well as social skills.

*Note: PE/Health is a required course for all incoming freshmen. Students must take either PE/Health 1 or PE/Health 2.

PE/Health 1 08101 G 050 10 (9)

Credit: 1 Meets for 1 semester

This comprehensive health education course will provide students with accurate, up-to-date information they can utilize to develop a healthy attitude and behavior patterns that promote a healthy lifestyle.

Critical thinking and decision-making skills are essential for students to be empowered to choose

behaviors that reduce health risks. Health I topics include: health risks, diet and nutrition, healthy eating, individual wellness plans, fitness, and social health.

PE/Health 2 08101 G 050 20 (9)

Credit: 1 Meets for 1 semester

This comprehensive health education course will provide students with accurate, up-to-date information they can utilize to develop a healthy attitude and behavior patterns that promote a healthy lifestyle. Critical thinking and decision-making skills are essential for students to be empowered to choose behaviors that reduce health risks. Health II topics include: mental health, substance abuse, individual wellness plans, and fitness. Please note that PE/Health I does not need to be taken before PE/Health II.

Activities 08001 G 050 00 (10, 11, 12)

Credit: 1 Meets for 1 semester

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 08005 G 050 00 (10, 11, 12)

Credit: 1 Meets for 1 semester

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.

Sports Management Internship (11, 12) 08148 G 050 00

Credit: 1 Meets for 1 semester

Prerequisites: PE/Health

The Sports Management Internship is a third or fourth year PE course geared towards individuals interested in the field of coaching, athletics administration, sports facility manager, or similar career. This semester long course is designed to enhance student interest and knowledge in the management and marketing of high school, post-secondary, and/or professional sports. Learning objectives include: acquisition of superior organizational skills, knowledge of athletic events facilitation, and sports facilities management. These objectives will be acquired by hands-on experience in addition to the use of higher level thinking skills in order to design and create sports management and marketing strategies. There may be occasions when coursework does not fall within school hours. For example: operating visual and

audio equipment during an athletic event. However on a typical day, interns will report to the activities office during the course period.

XI. Vocation-Focused Elective

Pursuing Passion (10, 11, 12) 22152 G 050 00

Credit: 1 Meets for 1 semester

What is passion? How can passions fuel wellness in mind, body and soul? This one semester course will explore these questions and many more. A few of the units will *include: Passions through past times; Passions for Causes; Passion in the face of Challenges; Seeking Out Careers that foster Our Passions; The Importance of Fun in Our Lives.* This course will be discussion and activity based.

XII. Business Education

All business courses are electives, 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.

CAPS 22151 G 050 00 (10, 11, 12)

Credit: 3 Meets for 1 semester

The Columbus Catholic Center for Advanced Professional Studies (CHS CAPS) program is an innovative High School Elective Course that takes students outside of the traditional classroom for half their day, each day for an entire semester. They are immersed in professional environments to develop problem-solving and professional skills to work on real projects for real business clients. This experience along with focused development on career exploration helps prepare each student-associate for their purpose beyond their life as a student. CHS CAPS is an example of how business, community and education can partner to produce personalized learning experiences that educate the workforce of tomorrow, especially in high skill, high demand jobs.

*UNI Credit for completing Teacher Preparation Level 3

*3 Hawkeye Community College Credits

*\$250 UNI scholarship each year students attend UNI for successful completion of 1 semester of CAPS

Accounting 12104 G 050 00 (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.

Introduction to Business 12051 G 050 00 (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)

Credit: 1 Meets for 1 semester

First Semester: 12164 G 050 00

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.

Personal Finance / Financial Literacy (11, 12) 19262 G 050 00

Credit: 1 Meets for 1 semester

This course will satisfy the financial literacy requirement for graduation. This course will also follow a curriculum provided by the University of Northern Iowa, and students can take a cumulative exam at the end of the term to receive UNI credit. Personal Finance's primary objective is to provide students with basic financial tools and knowledge that will enable them to build the lives they envision. The course will cover financial responsibilities, planning for the future, budgets, income and careers, spending and credit, saving and investing.

*1 UNI Credit if a student pays to take the exam. \$100 cost of exam

XIII. Family & 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 consumers, 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 19256 G 050 00

Credit: 1 Meets for 1 semester

Prerequisite: students will provide their own sewing materials

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 19201 G 050 00

Credit: 1 Meets for 1 semester

Prerequisite: Students will provide their own sewing supplies.

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.

*A student taking Clothing 1 first semester is eligible to take Clothing 2 second semester.

Food and Nutrition I 19252 G 050 00 (10, 11, 12)

Credit: 1 Meets for 1 semester

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 19253 G 050 00 (10, 11, 12)

Credit: 1 Meets for 1 semester

Prerequisite: Student needs to pass Food and Nutrition I

Food and Nutrition II is an extension of Food and Nutrition I. This course will allow students to practice basic cooking principles 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) 19255 G 050 00

Credit: 1 Meets for 1 semester

Child Development will provide the students with knowledge of pregnancy and prenatal development. Responsibilities and difficulties of parenting, family structures and discipline. The physical, emotional, intellectual and social development of children from birth to age four will be studied.

Independent Living (12) 19260 G 050 00

Credit: 1 Meets for 1 semester

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) 19297 E 050 00

Credit: 1 Meets for 1 semester

Prerequisite: Teacher approval

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.

XIV. 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 1 05154 G 050 00

Credit: 1 Meets for 1 semester

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 2 05155 G 050 00

Credit: 1 Meets for 1 semester

Prerequisite: Art 1

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 Major (12) 05197 E 050 00

Credit: 1 per semester Meets for 1 semester

Prerequisite: Art 1, Art 2, plus 2 additional classes, and teacher approval

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/Pottery 05159 G 050 00 (10,11,12)

Credit: 1 Meets for 1 semester

Prerequisite: Art 1

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.

Photography 05167 G 050 00 (10,11,12)

Credit: 1 Meets for 1 semester

Prerequisite: Photoshop/Art 1

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.

Drawing 05156 G 050 00

Credit: 1 Meets for 1 semester

Prerequisite: Art 1

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 05157 G 050 00 (10,11,12)

Credit: 1 **Meets for 1 semester**

Prerequisite: Art 1; Drawing is recommended

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.

XV. Music

Chorus

Credit: 2 **Meets for 2 semesters**

First Semester: 05110 G 050 10

Second Semester: 05110 G 050 20

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 lesions 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.

Band

Credit: 2 **Meets for 2 semesters**

First Semester: 05102 G 050 10

Second Semester: 05102 G 050 20

Fee: \$25 instrument rental, \$25 fine arts fee

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 Catholic 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.

Music Theory 05113 G 050 10

Credit: 1 Meets for 1 semester

This is a course that offers students the opportunity to gain a deeper understanding of music and how it works. The class will begin by introducing the musical terminology and fundamentals (scales, intervals, chords, etc.). Students will be exposed to examples of musical compositions and composers that use(d) the concepts that they have learned over the course of the class.

*Depending on student interest and skill level, the course can be offered as an independent study.

XVI. Online Learning - Edgenuity

Edgenuity is an online system that provides high-quality online courses to school districts. This is for:

- courses not offered at the school district,
- to alleviate a scheduling conflict,
- credit recovery,
- for homebound students, and
- for alternative education.

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

These courses have a minimum fee of \$275 per semester. This is in addition to tuition for Columbus Catholic High School.

- French I (First Semester) 24102 G 050 10 (Second Semester) 24102 G 050 20
- Spanish II (First Semester) 24053 G 050 10 (Second Semester) 24053 G 050 20
- Latin II (First Semester) 24343 G 050 10 (Second Semester) 24343 G 050 20
- German I (First Semester) 24252 G 050 10 (Second Semester) 24252 G 050 20
- Algebra II Honors (First Semester) 02056 H 050 10 (Second Semester) 02056 H 050 20

XVII. Planning for Academics Beyond Columbus

Credit Recommendations for College Entrance

Course	Credit	Course	Credit
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Math (to include two full years of Algebra and one year Geometry)	6 (minimum)	Science (to include two full years of the following: Biology, Chemistry, Physics)	6
Foreign Language (a minimum of 2 years in the same foreign language)	4	Social Studies	6
English	8		

In addition, college websites should be checked for specific entrance requirements. This is the responsibility of the student/parent. State universities are becoming more rigid in their adherence to core course admissions requirements. Student athletes hoping to participate in NCAA Division I or II and their parents should carefully read the NCAA Initial Clearinghouse information provided in this handbook.

Admission Requirements for Regent Universities using the Regent Admission Index

The Board of Regents approved requirements to enroll at the Regent universities are as follows.

An admission index will be calculated for freshman applicants using the following formula:

Regent Admission Index = (3 x ACT composite score) + (30 x high school grade point average) + (5 x number of high school courses completed in the core subject areas). A Regent Admission Index of 245 or higher will result in automatic admission to any of the three Regent universities. An individual review will be conducted by the admissions office for freshman applicants who scored below 245 or for whom an index could not be calculated.

In general, the courses that may be counted in the RAI calculation are limited to those offered in the following five subject areas: English, mathematics, science, social science, and foreign language. The Regent universities recognize that there are other courses offered outside of these five subject areas that may also serve as excellent preparation for college. While these courses are not eligible to be counted in the RAI calculation, each Regent university will evaluate these courses when considering applicants who fall into the individual review category.

Freshman applicants from Iowa high schools who have an RAI of at least 245 and who meet the minimum number of high school courses required by the Regent universities will qualify for automatic admission to any of the three Regent universities. Freshman applicants who have an RAI below 245 may also be admitted to a specific Regent university; however, each Regent university will review these applications on an individual basis and the admission decision will be specific to each institution. Freshman applicants from approved high schools in other states may be held to higher academic standards, but must meet at least the same requirements as graduates of Iowa high schools.

The Regent universities recognize that the traditional measures of academic performance do not adequately describe some students' potential for success. Therefore, the Regent universities strongly encourage all interested students to apply for admission. Applicants who feel their academic record is not an accurate reflection of their potential for success are encouraged to provide supplemental information explaining their circumstances in addition to the application, academic transcripts, and test scores.

- * **Applicants who do not possess all required factors will be evaluated on an individual basis by each Regent university.**
- * **Columbus Catholic no longer publishes class rank for our students. During the college admissions process, colleges will adapt accordingly.**

Building Your Future: Preparing for Academic Success at Iowa's Regent Universities

Minimum Requirements for Admission				Optimum Recommendations for Success
Iowa State University	The University of Iowa	University of Northern Iowa		
ENGLISH	4 YEARS including one year each of algebra, geometry, and advanced algebra.	4 YEARS with an emphasis on the analysis and interpretation of literature, composition, and speech.	4 YEARS including one year of composition. Also may include one year of speech, communication, or journalism.	4 YEARS with an emphasis on the communication skills of writing, reading, and listening, and the analysis and interpretation of literature. In addition, courses in journalism and media literacy will be valuable. Extracurricular activities in debate, speech contest, newspaper, and yearbook will further develop essential competencies.
MATH	3 YEARS including one year each of algebra, geometry, and advanced algebra.	3 YEARS including two years of algebra and one year of geometry for admission to the College of Liberal Arts and Sciences.	3 YEARS including the equivalent of algebra, geometry, and advanced algebra.	4 YEARS one in each year of high school. While advanced courses like calculus and statistics are good, it's more important that you gain a complete understanding of advanced algebra and trigonometry.
NATURAL SCIENCE	3 YEARS including one year each from any two of the following: biology, chemistry, or physics.	3 YEARS including one year each from any two of the following: biology, chemistry, or physics for admission to the College of Liberal Arts and Sciences.	3 YEARS including courses in general science, biology, chemistry, earth science, or physics. Laboratory experience is highly recommended.	4 YEARS , one in every year of high school. To be really well prepared, take at least one year each of biology, chemistry, and physics. These can be taken in any order and may be taught productively in either a separated or an integrated fashion, depending on your school's offerings.
SOCIAL STUDIES	2 YEARS for admission to the Colleges of Agriculture, Business, Design, Engineering, or Human Sciences.	3 YEARS for admission to the College of Liberal Arts and Sciences.	3 YEARS including courses in anthropology, economics, geography, government, history, psychology, or sociology.	3 YEARS are essential, but four are better. Take at least one year of U.S. history and one year of world history. Additional courses in anthropology, economics, political science, psychology, and sociology provide an important understanding of our political, social, and economic institutions.
FOREIGN LANGUAGE	2 YEARS of a single foreign language.	2 YEARS with U.S. history and world history recommended for admission to the College of Liberal Arts and Sciences.	2 YEARS with U.S. history and world history recommended for admission to the College of Engineering.	4 YEARS of a single foreign language. By taking foreign language during all four years of high school, you'll go beyond the basic skills and begin to use the language and reinforce your fluency.
OTHER COURSES	Specific elective courses are not required for admission.		2 YEARS of additional courses from the required subject areas, foreign language, or the fine arts.	EXPLORE! Courses in fine arts, performing arts, computers, or technology will help round out your high school experience. Follow your interests, talents, and the strengths of your school. Remember to choose courses with high academic standards.