

Central Catholic High School Course Curriculum Guide

(updated 2/3/25)

Welcome to Central Catholic High School! You will find that this is a special place – it is family. As in all families, our members have a variety of gifts and talents that we share with one another. Together, as parents, students, and educators, we have numerous opportunities to grow and develop intellectually, socially, and spiritually. The Central Catholic High School staff offers courses that provide students the opportunity to prepare for the realities they will encounter in this global, dynamic society.

Parents/guardians are encouraged to discuss with their students the necessity to carefully plan their course of study for each year, taking into account plans after high school. It is important to explore career options, as these often require a specific sequence of courses. The Central Catholic High School Counseling Center personnel begin the process of a four-year plan of study during the freshman registration period. They are here to assist all students and families with planning the students' present course of study and exploring and adjusting the four-year plan throughout high school. It is important for students and parents/guardians to gather information regarding college/university entrance requirements early so that the students are appropriately prepared to make application to the post-secondary schools of their choice.

Our curriculum and teachers will meet students where they are, challenge them, and both deepen and broaden their academic understanding of the content areas.

Requirements for Graduation

□ Completion of 5 Living the Faith Hours per quarter (80 total - adjusted for transfer students)

□ 25 TOTAL credits*

Theology - 4 (adjusted for transfer students)

English - 4

Mathematics - 3

Science - 3

Social Studies - 2.5 (Required: World History, U.S. History, Civics credit, and passing Constitution Test)

Wellness - 2 (waived for Jr/Sr transfer students who have passed Health)

Foreign Language/Fine Arts/BACC - 1.5

Consumer Education - .5

Electives - 4.5

Advanced Placement (AP) Courses

Central Catholic offers Advanced Placement (AP) courses in English, Math, History, and Science. They are advanced classes requiring more than the regular preparation time by the students. These courses are part of the program sponsored by the College Board, and are geared to prepare the students to take an Advanced Placement Examination at the end of the year. There is an additional testing fee. Students may earn college credit if they obtain an eligible score on the AP Test. Placement in the courses will be based on recommendations of the Department, Counselor, and/or Administration.

Heartland Community College – College NOW (Dual Credit)

We offer several Heartland Community College classes for dual credit at Central Catholic High School. Students who participate may earn high school credit (their grades go on the report card and count toward high school grade point average) and college credit from Heartland at the same time (transferrable to any colleges that accept the credit). Students and parents are strongly encouraged to check to see if the college(s) that they are interested in will accept coursework transferred from community colleges. These courses will be offered provided we have sufficient student interest.

Students will have to qualify for these classes by taking Heartland College placement tests in Reading and English. Students and parents should realize that students do not need to take these courses. These courses are offered to enhance the elective choices that we offer. Check with one of the Central Catholic guidance counselors for additional information.

^{*}Most students take more than the minimum number of credits required for graduation during their educational experience at Central Catholic High School in order to be academically competitive in the college admission process.

The following information comes from our **Student Handbook**:

Course Selection Policy

Students have the opportunity and the responsibility to plan a realistic educational program for the upcoming year. Students should read course descriptions, make use of instructors' and counselors' recommendations, and discuss plans with their parents to ensure that they are making informed decisions about their choices. Parents and students should give serious consideration to this matter before choosing specific courses because students will be expected to remain in the selected courses once the school year begins. Central Catholic employs instructors and builds a master schedule based upon the course selections made in the spring semester.

Please consider the following points to help you make the best choices when deciding amongst classes in terms of level of difficulty, content, and graduation requirements:

- **Appropriate Levels**: It is important to remember that Honors, AP, and Dual Credit courses move at a faster pace and involve a large amount of independence and motivation to complete work successfully. Advanced courses are known for requiring more work. Be prepared to invest more time in studying and completing assignments.
- **Prerequisites**: Consider if you have the necessary background knowledge and skills for a course. Many advanced courses have prerequisites and students must meet them to be eligible for the course.
- **Well-Being**: Be mindful of the stress and pressure that can come from your projected course load. Be sure that you have the time, capacity, and mindset to finish the courses successfully and in a healthy way. Early dismissals for athletic events can also add an additional layer of consideration in terms of time commitment.
- Future Goals: Try to align your college and career goals and your interests with the courses you select.

Please understand that all selections are REQUESTS and are NOT GUARANTEED. Adjustments often need to be made due to available seats and scheduling conflicts. All efforts will be made to accommodate as many of your preferences as possible. It is also important to understand that student schedules may not be balanced across Navy and Gold days so students may end up with multiple AP courses on one day. In early May, following any modified teaching assignments at the school, student requests will be processed by the registration management system, Skyward, and an assigned schedule will be generated. Skyward will assign student matches based on student preference as course capacity allows. Schedules will be available for students to pick up at the school in early August. A Waiting List request form will be provided upon student request. If a class remains full up until the 6th calendar day of the start of the semester, students will be required to follow their current course schedule.

Time Frame for a Course Change

The student must see his/her counselor in order to request a schedule change within the first six days of the beginning of the semester starting on the first Navy Day (three occurrences of each block) so that the student can still make-up the content missed in the first days. If a student drops a class after the 6th day, it will go on the transcript as an F. Schedule changes involving classes which continue from the first semester must be completed by the 2nd day of the new term.

Circumstances for a Course Change

Course changes will only be made in the following circumstances:

- An error was made in scheduling and the counselor should be notified immediately
- It can be justified due to a change in career plans
- A course is required for admission or a scholarship program at the college or university the student plans to attend
- A change is warranted by courses passed (or failed) in summer school (will be initiated by school personnel)
- A student can justify withdrawing from an elective subject
- A doctor and/or nurse certifies that a physical condition warrants a change

Even when one of the above circumstances applies, students may only add classes on a space-available basis.

Students may not change their schedules for the following reasons:

- They want to be in a class with particular friends
- They wish to move the same class from one block to another
- They wish to have a different teacher

School Personnel Course Change Request

School personnel may initiate a change in a student's program if an instructor and/or counselor recommends a different course level or if it is necessary to "balance" classes.

How to Request a Course Change

Changes may be requested by phone or email. We encourage personal responsibility on the part of students, and ask that parents not initiate the change on behalf of their son or daughter. Parents are certainly welcome to discuss schedules with our counseling staff, but we ask that the students initiate discussion regarding scheduling concerns.





KNOW TRUTH | LOVE GOD | SERVE OTHERS

Central Catholic offers courses in the following areas. Click on a department below for a direct link to those courses.

Business & Consumer Education

Driver Education

English

Fine Arts

Foreign Language

Information Technology

Mathematics

Physical Education & Health

Science

Social Studies

Theology

Other

Bloomington Career Academy (BCA)

Business & Consumer Education

Accounting (11, 12)

Year Course .5 Elective credit each semester

This course deals with the "accounting cycle" from its simplest form to more complex forms with special journals and subsidiary ledgers. The student will become acquainted with and develop an understanding of common business transactions, develop skills and work habits needed for recording transactions and be able to prepare financial statements with some understanding of the process of the "why" of accounting in addition to the "how." Computerized accounting will be a part of this course.

Business 110: Introduction to Business Dual Credit (11, 12)

Spring Semester Course 3 college credit hours total, .5 Elective credit

Prerequisite: Completed application and qualifying test score (PSAT, ACT, SAT, or Heartland literacy test)

This course focuses on clarifying the complexities of the business world while enhancing students' skills in critical thinking, problem solving, diversity, and communication; thus providing them with necessary tools for business success. Within a framework of professionalism, ethical decision making, and responsibility, students will assess the global, economic, social, technological, and political environments impacting business. In addition, students will examine the essential elements of organizational structure, marketing, management, accounting, and financial decision-making. Taught at CCHS by CCHS faculty.

Consumer Education (10-12)

Semester Course .5 Consumer Education credit

This course provides the student the opportunity to learn about the United States free enterprise system and explore their roles as citizens, producers and consumers from a Catholic Christian perspective, using the abundant gifts of God. It also combines the content of traditional high school economics courses with opportunities for students to use their understanding of economic principles in online research. Topics such as supply, demand, business cycles, inflation, recession, monetary policy, and the Federal Reserve are discussed from both the consumer and business perspectives. Financial life experiences such as interest rates, loans and investments are also worked into course curriculum. This course will also explore the financial development of the Catholic Church. This course fulfills the Consumer Education graduation requirement.

EdOptions Academy Consumer Mathematics (10-12)

Summer Course .5 Consumer Education credit

This online course explains how four basic mathematical operations – addition, subtraction, multiplication, and division – can be used to solve real-life problems. It addresses practical applications for math, such as wages, taxes, money management, and interest and credit. Projects for the Real World activities are included that promote cross-curricular learning and higher-order thinking and problem-solving skills. (If you plan to take this online summer course prior to Senior year to fulfill the graduation requirement, you must submit the application and the fee by the last day of student attendance this year. We cannot enroll you in this course until we receive the payment in the form of a check made payable to Central Catholic High School (the fee CANNOT be added to your FACTS account or paid with a credit card).)

Driver Education

Classroom Instruction (9-12)

No Credit

Prerequisite: Must be 15; Must have passed 8 classes from previous school year.

State law dictates that a student must have passed at least eight (8) courses in the previous two semesters in order to be eligible to enroll in driver education. This course is a study of the driver and his/her physical fitness, laws governing the driver's responsibilities concerning traffic laws and accidents, and defensive driving. The State of Illinois requires that a student be present for 30 clock hours of instruction. These classes are held before school and provided through Unit 5 School District instruction.

Behind the Wheel (9-12)

No Credit

Prerequisite: Must be 15; Must have passed Driver Education Classroom Instruction

The student will spend six (6) before-school hours in a car with an instructor learning the basic skills needed for street driving. Students are ordinarily assigned two to a car for periods of 50 minutes at a time. The Behind-the-Wheel period of instruction usually lasts 4.5 weeks. Our Driver Education classes are provided by Unit 5 Normal Community High School. Scheduling into the driver education classes depends on when a student completes the 15th birthday. Oldest students are given the first priority. Behind-the-Wheel training will take place before school hours. There is a class fee of \$300 to be paid on the first day of class.

English

At each of the course levels, students should be able to meet the following goals:

- 1. Read with understanding and fluency.
- 2. Read and understand literature representative of various societies, eras and ideas.
- 3. Write to communicate for a variety of purposes.
- 4. Listen and speak effectively in a variety of situations.
- 5. Use the language arts to acquire, assess and communicate information.

English 9 (9)

Year Course .5 English credit each semester

NCAA Core

Freshman English is an introduction to six literary genres and the study of composition and vocabulary. The elements of the short story, the novel, mythology, poetry, and prose writing are taught and drama is introduced through one Shakespearean play and one modern play. Issues in literature that relate to our faith will be discussed from a Catholic perspective. In composition, freshmen study grammar and usage with emphasis on writing cohesive three-to-five paragraph narratives, and descriptive and expository essay paragraphs. Students will complete a minimum of one research project each year.

Honors English 9 (9)

Year Course .5 English credit each semester

NCAA Core

This is an in-depth survey of the short story, novel, drama, non-fiction, poetry and mythology. Literature study will focus on the understanding of the structure and the use of literary terminology and vocabulary development; some selections will be more challenging than those read by students in the regular level. Issues in the literature that relate to our faith will be discussed from a Catholic perspective. Composition work based on the writing process approach will be studied, and students will both plan and write full-length papers. Students in the honors level will also be expected to develop strong note-taking and analytical skills during the year. Placement in this course is based on placement test scores.

English 10 (10)

Year Course .5 English credit each semester

NCAA Core

The sophomore English components are speech and composition, with the emphasis on expository writing, vocabulary and literature. Speech introduces students to basic communication skills. Sophomore literature builds upon four literary genres introduced in the previous year, the novel, world literature, short stories, poetry, nonfiction, and one Shakespearean play. The novel Night will be read as a part of the unit addressing the Holocaust. Issues that relate to our faith will be discussed from a Catholic Christian perspective.

Honors English 10 (10)

Year Course .5 English credit each semester

NCAA Core

Emphasis in this course will be on the utilization of resources. Students will learn to see similarities and differences between our Catholic Christian beliefs and what the literature is saying. As in Sophomore English, the honors level course will build on the literary genres introduced the previous year: the novel, world literature, short stories, poetry, nonfiction, and one Shakespearean play. Students are expected to practice evaluating tone, drawing inferences, discerning patterns, and gathering and presenting supporting evidence from literature. Composition will focus on research-based writing.

English 11 (11)

Year Course .5 English credit each semester

NCAA Core

Junior English emphasizes American literature from our country's beginning through 21st Century authors. The short story, drama, poetry, speeches, historical documents, and novels are studied. The composition is studied in conjunction with literature, focusing on the four discourses of rhetoric: Narration, composition, persuasion, and description. Each unit will include written components. The Catholic Christian perspective as it relates to literature and genres will be discussed.

Advanced Placement (AP) English Language and Composition (11)

Year Course .5 English credit each semester

NCAA Core

This Advanced Placement course in English Language and Composition, with our faith based Catholic Christian perspective, should train students to become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts. The course should also give them the practice and helpful criticism necessary to make them flexible writers who can compose in a variety of modes and for a variety of purposes. Both their reading and their writing should make them aware of the interaction between authorial purpose, audience needs, the subject itself, generic conventions, and the resources of language: Syntax, word choice, and tone. Students may earn college credit if they obtain an eligible score on the AP Test.

English 12 (12)

Year Course .5 English credit each semester

NCAA Core

Seniors study world literature with a focus on the British Isles from the Anglo-Saxon period through the 20th Century. From ancient Greek drama to modern film adaptation, the class offers a multi-disciplinary seminar across diverse media. In composition, seniors concentrate on collegiate writing: longer expository and persuasive writing including argumentative critiques and literary reviews. Students experience a capstone project discerning literature in adaptation, a thematic focus of the year. Considerations in the literature relating to our faith will be discussed from a Catholic Christian perspective.

Advanced Placement (AP) English Literature and Composition (12)

Year Course .5 English credit each semester NCAA Core

Prerequisite: Requires teacher recommendation

A student in Advanced Placement English Literature and Composition will be engaged in the careful reading and critical analysis of imaginative literature. Through close reading of selected literary works with an emphasis on British and world literature, students deepen their understanding and enhance their pleasure in literature as well as develop their critical reading skills. Additionally, students work on becoming skilled writers in a variety of writing assignments connected with the literature they read throughout the school year to prepare them for the Advanced Placement Literature test given in May as well as prepare students for college English classes. Students may earn college credit if they obtain an eligible score on the AP Test.

Journalism (11, 12)

Year Course .5 Elective credit each semester NCAA Core

Prerequisite: Instructor approval. May be repeated

This course emphasizes basic news writing, layout, design, copy, proofreading, photography, and graphics as they relate to the newspaper and yearbook. The publications will document how we celebrate our faith as a school and highlight our Catholic traditions and celebrations. All Journalism work is produced on a desktop publishing unit. Non-print and other forms of mass media will be included.

Creative Writing (9-12)

Semester Course .5 Elective credit NCAA Core

This course allows students to use their God-given talents to produce original writings. During the first semester students will receive instruction in the elements of short story writing. Students will compose several original short stories of varying length. The second semester focuses on elements of poetry, and students will apply these elements to compose poems of varying styles. Throughout the year works by professional authors will be read and discussed. In addition to completing individual portfolios, each student will be required to prepare at least one manuscript for submission to a publishing outlet or writing contest. All students must submit a piece for possible publication in a writing competition.

Dramatic Literature (9-12)

Semester Course .5 Elective credit NCAA Core

In this course, students will gain an understanding and appreciation for the art of theater through classroom instruction, discussion, and performance. Students will study an overview of history, appreciation, and interpretation of appropriate theater. Such topics covered will include the following: improvisation, overcoming stage fright, acting techniques, performance critiques, and an overview of the technical aspects of producing. Students will learn how to write and analyze a script, to better understand and develop their character, solo and ensemble building, and give a more realistic performance.

Speech/Debate (9-12)

Semester Course .5 Elective credit NCAA Core

This one-semester course offers an overview of the process of communication and provides a variety of public speaking experiences. Students will develop critical speaking and listening skills. Speech provides the study of and practice of the basic principles and techniques of effective oral communication. This course includes instruction in adapting speech to different audiences and purposes. Additionally, students learn processes of logic and critical thinking as they prepare for classroom debates. This course emphasizes research using technology and careful organization and preparation.

Ancient Mythology (9-12)

Semester Course .5 Elective credit NCAA Core

The Ancient Mythology class will examine all aspects of mythology, including how mythic archetypes compare between different cultures. We will focus on Greco-Roman, Native American, Norse, Sumerian, African, Eastern, and Celtic myths. The students will conduct research, write papers, and present oral characterizations from different myths. Mythological issues that relate to the Catholic faith will be discussed from a Catholic perspective. Students will complete one research project.

Contemporary Mythology (11, 12)

Semester Course .5 Elective credit NCAA Core

This course will approach a wide variety of contemporary folklore, legends, and mythology through the methodologies and theories of Religious Studies and modern renditions of classic literary archetypes. Students will also explore how traditional archetypal characters and themes have influenced modern media in fictional universes such as *Star Wars, Lord of the Rings*, and *Marvel Comics*. These three categories draw attention to visions of what is possible in both life and death, according to the peculiarity of the way things really are. Modern movie mythology will be heavily studied.

Science Fiction & Horror Literature (11, 12)

Semester Course .5 Elective credit

The Science Fiction/Horror Literature class will examine all aspects of Science Fiction and Horror. We will focus on novels such as *The Martian Chronicles* and *Fahrenheit 451* by Bradbury; *Stranger in a Strange Land* by Heinlein; *2001: A Space Odyssey* by Clarke; *Alas, Babylon* by Frank; and Bram Stoker's *Dracula*. The students will read, conduct research, write papers, and watch movies. Science Fiction issues that relate to the Catholic faith will be discussed from a Catholic perspective. Students will complete one research project.

Literature of a Genre: Film Studies (11, 12)

Semester Course .5 Elective credit

This course has the same aim as a general literature course (i.e. to improve students' language arts and critical-thinking skills), focusing on film as both a visual art form and story-telling genre. Students determine the underlying assumptions and values within selected works, and

they will examine the structure, techniques, and intentions of the genre being studied. Large and small group discussions will be an integral part of the course. Written compositions will also be required.

Fine Arts

By the time Central Catholic students complete their requirements in the area of the fine arts, they should have met the following goals:

- 1. Know the language of the arts.
- 2. Through creativity and performing, understand how works of art are produced.
- 3. Understand the role of arts in civilizations, past and present.
- 4. In the area of music, students will learn a variety of music styles and literature while striving for the betterment of their voice or instrument, produced through discipline and teamwork.

Concert Band (9-12)

Semester or Year Course .25 Fine Arts credit each semester

This course is open to ALL students regardless of past band experience or level of music education. Students will perform for athletic events, three school concerts, and various music functions such as the Music in the Schools Tour, ILMEA Festivals, IHSA Solo & Ensemble Contest, and the ISU Concert Band Festival. This band performs a variety of music including Classical, Pop, Sacred and Jazz music. The Music Department takes a yearly music trip during each spring semester. Attendance at all scheduled in-state performances is required. This class meets for half a block (40 minutes) and students have a study hall or Choir for the other 40 minutes.

Concert Choir (9-12)

Semester or Year Course .25 Fine Arts credit each semester

This course is open to ALL students regardless of past choir experience or level of music education. Instruction includes learning music reading, musicianship, proper singer's diction, and proper breathing techniques. Students are exposed to a variety of musical styles. This course provides students the opportunity to perform in a choral setting and have the opportunity to participate in various other activities such as the ILMEA district and all state festivals, the IHSA Solo & Ensemble Contest, and additional performance activities scheduled by the instructor. The choir also sings at every all-school Mass. This class meets for half a block (40 minutes) and students have a study hall or Band for the other 40 minutes.

Art 1 (9-12)

Semester Course .5 Fine Arts credit

The Art 1 students will become familiar with the elements of Art: Balance, Color, Contrast, Emphasis, Form, Line, Movement, Pattern, Rhythm, Shape, Space, Texture, Unity, and Value through a variety of media. Experiences will include work with two-dimensional art forms and Art History. Some of the media used will include Tempera, printmaking, and drawing. Text will be supplied in class. The history of Catholic art and architecture, and famous Catholic/Christian artists will be discussed. Students will learn to be tolerant of others while learning the skills to analyze and critique each other's work, as well as that of other artists.

Art 2: Ceramics (10-12)

Semester Course .5 Fine Arts credit

Prerequisite: Art 1

This course is designed to develop basic and advanced skills in working with clay construction methods including hand building, pottery, non-hardening clay and kiln work. Students will have the opportunity to celebrate their faith by creating their own crucifix.

Art 2: Drawing and Painting (10-12)

Semester Course .5 Fine Arts credit

Prerequisite: Art 1

This course will provide the students the opportunity to study watercolor, ink, charcoal, pencil and acrylic paint. Students will have the opportunity to celebrate their faith by creating their own faith-related paintings.

Art 3: Advanced Drawing and Painting (11, 12)

Year Course .5 Fine Arts credit each semester

Prerequisite: Art 1 and Art 2

The student will focus primarily on life drawings, including extensive study of the human face and creating life-like portraits. The use of value and drawing techniques will be discovered. Students will be introduced to acrylic painting techniques. Students may have the opportunity to explore advanced ceramics. Students will be exposed to artist and art history through projects creating different styles of art.

Art 4: Studio Art (12)

Year Course .5 Fine Arts credit each semester

Prerequisite: Art 1, Art 2, and Art 3

Students will be working on mastering their skills in Quality (for which actual artwork is submitted), Concentration (an in-depth individual project): and Breath (demonstration of a wide range of experience). Advanced Studio Art candidates are required to produce a portfolio – either General or Drawing – for evaluation, prepared and submitted according to the specification detailed on the Studio Art Poster. Students will express themselves through their artwork representing the Church and its symbols.

Foreign Language

Levels 1-5 of Spanish are offered at Central Catholic High School for students who are interested in learning another language, want to meet a university entrance requirement, are interested in other cultures, and/or are preparing for a future career. In the world today, the knowledge of a foreign language has become more important than ever before. The study of a foreign language can:

- Increase a person's job potential
- Increase one's knowledge of other people and cultures
- Enhance one's knowledge of English, since 80% of English is based on French, German, and Spanish
- Improve one's ACT and SAT scores on the English test
- Fulfill foreign language requirements for admission to a university

In addition to teaching the reading, writing, speaking, and listening skills for each level of foreign language classes, Christian morality (i.e. honesty, respect for others and property, and working to one's potential) and issues of social justice are also stressed. Prayers are learned in the target language, and religious topics related to the culture are discussed.

The courses must be taken sequentially. However, if Spanish 1 was taken in junior high, credit for this class may be earned by passing the Placement Test. Those students would then have the option of being placed in Spanish 2 as freshmen.

Level 1 Spanish (9-12)

Year Course .5 Foreign Language credit each semester

This course is an introduction to the language and cultures of Spanish-speaking countries. This course is taught using comprehensible input through TPRS (Teaching Proficiency through Reading and Storytelling) and acquiring high frequency word structures. Input, the primary focus, is delivered using stories, readings, songs, and personalized questions. Students will acquire the language by listening and reading to support their eventual output of writing and speaking. The class is mostly conducted in comprehensible Spanish with support in English.

NCAA Core

Level 2 Spanish (9-12)

Year Course .5 Foreign Language credit each semester NCAA Core

Prerequisite: Pass Level 1 Spanish* or meet requirements of Placement Test

This course continues to expose students to the language and cultures of Spanish-speaking countries. This course is taught using comprehensible input through TPRS (Teaching Proficiency through Reading and Storytelling) and acquiring high frequency word structures. Input, the primary focus, is delivered using stories, readings, songs, and personalized questions. Students will acquire the language by listening and reading to support their eventual output of writing and speaking. The class is mostly conducted in comprehensible Spanish with support in English.

Level 3 Spanish (10-12)

Year Course .5 Foreign Language credit each semester

NCAA Core

Prerequisite: Pass Level 2 Spanish*

This course delves deeper into the language and cultures of Spanish-speaking countries. This course is taught using comprehensible input through TPRS (Teaching Proficiency through Reading and Storytelling) and acquiring high frequency word structures. Input, the primary focus, is delivered using stories, readings, songs, and personalized questions. This class begins to put more of an emphasis on writing and speaking output. The class is conducted in comprehensible Spanish with support in English when necessary.

Level 4 Spanish (11, 12)

Year Course .5 Foreign Language credit each semester NCAA Core

Prerequisite: Pass Level 3 Spanish*

This course is taught using comprehensible input through TPRS (Teaching Proficiency through Reading and Storytelling) and acquiring high frequency word structures. In this course students will thoroughly review concepts taught in lower levels and learn more advanced language structures. An emphasis will be placed on speaking more fluently and reading longer texts in the target language. Selected readings, including short novels, help to develop reading comprehension skills. Listening, written, and oral fluency are developed through discussion and questioning.

Level 5 Spanish (12)

Year Course .5 Foreign Language credit each semester NCAA Core

Prerequisite: Pass Level 4 Spanish*

This is an advanced level course that emphasizes further development of speaking, writing, reading, and listening skills in Spanish, while augmenting cultural studies through readings of modern Hispanic writers. There is more of an emphasis on grammatical structures. A variety of authentic Hispanic films, designed to enhance listening skills and appreciation of culture, are viewed. It is assumed that students have a good grasp of Spanish grammar before enrolling in the course.

^{*}Students who earn a C or higher in foreign language tend to be better prepared for the next level.

Information Technology

Networking 160: Computer Networking and Security Dual Credit (11, 12)

Year Course 3 college credit hours total, .5 Elective credit each semester

Prerequisite: Instructor Approval and completed application

This class is designed to prepare a student to setup, secure, and maintain computers and computer networks for Windows and Linux. We will learn about every piece of networking equipment, the protocols used by them, and how to secure them. We'll discuss the different types of threats and vulnerabilities, and how to prepare (harden) your computer and network to mitigate threats from attacks and viruses. In today's interconnected, networked world, learn how to protect your data and if you like it, prepare to pursue it at the next level. We will be discussing content and topics to prepare a student for securing PCs and networks in the 21st Century. At the completion of this course, students will know how to use, discuss, and/or troubleshoot: Networking Fundamentals, Network Design, Authentication and Access Control, Network Security, Linux, Windows, Encryption, Virtual Machines, Vulnerability Control, Physical Security, Wireless Technologies, Threats and Vulnerabilities, and Host Security. Taught at CCHS by CCHS faculty.

Mathematics

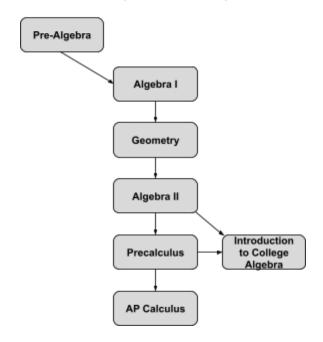
Our math curriculum uses the Pearson Prentice Hall series for Algebra I, Geometry, and Algebra II. This program challenges students and provides them the opportunity to acquire more in-depth math skills for math related careers in college. The most fundamental feature of Prentice Hall is its focus on upgrading the mathematics experience of all students. The sequence transforms high school mathematics into a mathematical sciences curriculum, covering a much greater range of material important for life in a technological society while maintaining consistency with recent developments in college-level mathematics.

This curriculum targets the general school population and conveys the essential role of mathematics in everyday life by teaching students to use mathematics effectively, while also preparing students for STEM related fields. Teachers and students praise God for the blessings and wonders of His universe, seeing the awe of all things in nature connected mathematically and scientifically. CCHS highly recommends all math courses be taken on campus to meet the necessary prerequisites for the mathematics sequence.

Over their high school experience in mathematics, students should be able to meet the following goals, as appropriate to their mathematics level:

- Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication and division), patterns, ratios, and proportions.
- 2. Estimate, make and use measurements of objects, quantities and relationships, and determine acceptable levels of accuracy.
- 3. Use algebraic analytical methods to identify and describe patterns and relationships in data, solve problems and predict results.
- 4. Use geometric methods to analyze, categorize and draw conclusions about points, lines, planes and space.
- Collect, organize and analyze data using statistical methods, predict results and interpret uncertainty, using concepts of probability.

Math Department Course Sequences



Pre-Algebra (9)

Year Course .5 Math credit each semester

This course offers solid preparation for algebra and geometry. Integers and algebraic concepts are introduced at the beginning of the year to develop students' algebraic thinking skills. Throughout the course, algebraic concepts are connected to arithmetic skills to build on what students know. Geometry concepts are integrated when appropriate to foster connections. There is an emphasis on mastery of basic skills without the use of a calculator. This course provides numerous opportunities to assess basic skills along with abundant remediation and intervention activities. Daily spiral reviews provide practice on prerequisite skills.

Algebra 1 (9, 10)

Year Course .5 Math credit each semester

NCAA Core

The algebra text provides students with a solid algebra course – covering all topics required to meet local and national testing and curriculum guidelines. The course covers variables, function patterns and their graphs; rational numbers; solving equations; functions and graphs; linear equations, functions, and their graphs; systems of equations and inequalities; exponents and exponential functions; polynomials and factoring; quadratic equations and functions; radical expressions and equations; rational expressions and functions. Students who complete this course successfully should be prepared to take Geometry.

Algebra 1 Honors (8)

Year Course .5 Math credit each semester

Prerequisite: Algebra Prognosis Test Criteria Must be Met

This honors level course, the same as Algebra 1, is offered to 8th grade students in the local Catholic schools. The Algebra Prognosis Test given by Central Catholic High School in the spring of the 7th grade year and meeting specific criteria to assure their success in the class is mandatory. This enters the students into an accelerated high school math program and is not appropriate for all students.

Algebra 1B (10)

Year Course .5 Math credit each semester

NCAA Core

Prerequisite: Algebra 1A

This course is the second year of the Algebra 1A/1B sequence. Instruction focuses on the latter half of the book including systems of equations and inequalities; exponents and exponential functions; polynomials and factoring; quadratic equations and functions; radical expressions and equations; rational expressions and functions. Students who complete both of these courses successfully should be prepared to take Geometry.

Geometry (9, 10, 11)

Year Course .5 Math credit each semester

NCAA Core

Prerequisite: Algebra 1 or Algebra 1A and Algebra 1B

Geometry provides students with a complete formal geometry course. The text builds and connects synthetic, coordinate, and transformational as well as three-dimensional geometry. Inductive and deductive reasoning are introduced early. Students learn to analyze and write proofs – two column, paragraph, flow-proofs, and coordinate proofs. Algebra skills are reviewed at the point of use – ensuring maintenance. Work in circles is intertwined throughout the course and right triangle trigonometry is introduced early.

Algebra 2 (10, 11, 12)

Year Course .5 Math credit each semester

Prerequisite: Algebra 1 and Geometry

NCAA Core

This course covers solving equations and inequalities; functions, equations, and graphs; linear systems; matrices; quadratic equations and functions; polynomials and polynomial functions; radical functions and rational exponents; exponential and logarithmic functions; rational functions; quadratic relations and conic sections; sequences and series; probability and statistics; periodic functions and trigonometry; trigonometric identities and equations.

Precalculus (11, 12)

Year Course .5 Math credit each semester

NCAA Core

Prerequisite: Algebra 1, Geometry and at least a B- in Algebra 2

This course adheres to the NCTM standards and covers traditional pre-calculus topics. The text inclusion of real world data, allows for enhanced focus on applications, critical thinking, and meaningful use of technology. Trigonometric functions are introduced using a unit circle approach, which is then related to the right angle approach. This course develops and illustrates concepts both algebraically and graphically. Graphing techniques are emphasized including a discussion of polar coordinates. Students are writing, verbalizing, and using critical thinking skills to solve mathematical problems. Calculus is foreshadowed through a chapter on limits and derivatives.

Advanced Placement (AP) Calculus AB (12)

Year Course .5 Math credit each semester

NCAA Core

Prerequisite: Algebra 1, Geometry, Algebra 2, and Precalculus

This course is intended for students who have a thorough knowledge of college preparatory mathematics, including algebra, axiomatic geometry, trigonometry, and analytical geometry (rectangular and polar coordinates, equations and graphs, lines and conics). This course is part of a program sponsored by the College Board and is geared to prepare the students to take the advanced placement examination at the end of the year. Students may earn college credit if they obtain an eligible score on the AP Test. This is a demanding course that requires ample study time.

Introduction to College Algebra (12)

Year Course .5 Math credit each semester

Prerequisite: Algebra 1, Geometry and at least a C- in Algebra 2 (or teacher approval)

This is a course designed for seniors who want to take a fourth year math class but do not feel equipped to handle the challenges of Precalculus. Students who have taken Precalculus are discouraged from taking this course and are encouraged to take AP Calculus. Colleges and universities see this as a downward move and frown on students who do not rise to the challenge of AP Calculus if that is the track the student is on. This course will help prepare the student for college algebra. Students will review Algebra, Algebra II, and Geometry skills. Additionally, new skills will be introduced such as Logic, Number Theory, Abstract Mathematical Systems, Counting Techniques, Statistics, Math in Finance, and possibly Voting and Apportionment and Graph Theory.

Physical Education & Health

While meeting the school requirements of 1.5 credits in Physical Education and .5 credit in Health, students will meet the following goals:

- 1. Acquire movement skills and understand concepts needed to engage in health enhancing physical activity.
- 2. Achieve and maintain a health enhancing level of physical fitness based upon continual self-assessment.
- 3. Develop team-building skills by working with others through physical activity.
- 4. Understand principles of health promotion and the prevention and treatment of illness and injury.
- 5. Understand human body systems and factors that influence growth and development.
- 6. Promote and enhance health and well-being through the use of effective communication and decision-making skills.

Wellness (9, 10)

Year Course .5 Wellness credit each semester

This course for freshmen and sophomore students combines Physical Education and Health. The Physical Education portion of the course offers students an opportunity to participate in a variety of individual and team sports and activities. Classes are divided into units of instruction of two to six weeks duration throughout the year. Activities include fitness and conditioning, soccer, basketball, volleyball, softball, wiffle ball, paddle tennis, badminton, recreational games and relays. The Health portion of the course includes lecture, discussion, films and other activities offering information on mental health, basic human anatomy and physiology, exercise and fitness, nutrition, human reproduction, human growth and development, first aid and CPR, disease, the use and abuse of drugs including alcohol and tobacco and environmental health. Also included in the course are units working with the American Heart Association and local health agencies, covering units on heart and stroke, conducting cholesterol screenings, BMI (body mass index), and heel scans for osteoporosis. Each student will learn the importance of balancing and to encompass the physical, mental, and social and spiritual aspects of health in their lives. Students will assess the importance of honoring each of these things the way the Lord intended us to honor our bodies, mind and soul.

Strength and Conditioning (11, 12)

Spring Semester Course .5 Elective credit

The emphasis in this course is on muscular strength, endurance, flexibility, and safety for both in-season and out of season student-athletes. The core lifts in this course include parallel squats, cleans, and bench press. Weight room safety, warm-up/cool down procedures, lifting technique and safety for all lifts, major muscle identification, and individual goal setting are all important components in this course. Another aspect of this class is learning how to properly watch and evaluate game film. Students will be expected to master the following course objectives: Understand the components of physical fitness and how they relate to overall physical wellness; Understand the concept of total wellness and how weight training contributes to this; Demonstrate the basic fundamentals of weight training such as form, technique, spotting, breathing, safety, and visualization; Understand and demonstrate various training methods such as low repetition for strength, high repetition for endurance and toning, pyramid strength building and circuit training; Identify major muscle groups and give examples of specific lifts for those muscles; Demonstrate proper warm-up and cool-down procedures specific to weight training; Demonstrate correct mechanical and physiological principles on all lifts; Consistently demonstrate correct and safe spotting techniques; Demonstrate how to break down game film.

Science

The Central Catholic Science Department endeavors to challenge students of all levels and abilities and to inculcate in them an appreciation for science and learning. Recognizing the diversity of our student body, it is our goal to reach each student where they are and advance them towards fulfillment in their future within a caring environment. Teachers in the Science Department have selected the following goals to be furthered in each level of study. By the time they graduate Central Catholic High School, students will:

- 1. Be able to formulate and test hypotheses using the scientific method. (Understand the processes of scientific inquiry and technological design to investigate questions, conduct experiments and solve problems.
- Demonstrate an understanding of the interrelatedness of matter and energy and an understanding of the fundamental concepts, principles, interconnectedness of life, physical and earth/space science.
- 3. Demonstrate an ability to analyze and utilize scientific vocabulary that would identify them as being scientifically literate.
- 4. Be able to effectively read and construct graphs and use scientific equipment and technology.
- 5. Demonstrate the ability to make responsible and caring choices about their environment.
- 6. Demonstrate an understanding of the composition and structure of the universe and motions of objects within it.
- 7. Demonstrate knowledge of the characteristics of living organisms, their relationship to each other, and their relationship to the
- 8. Be able to interpret new scientific discoveries and appraise their moral and practical value to society. (Understand relationships among science, technology and society in historical and contemporary contexts.)

Biology 1 (9)

Year Course .5 Science credit each semester

NCAA Core

Biology 1 is a lecture-laboratory course designed to provide a general background for the understanding of science and biology. This course develops an appreciation of God's creation of life from its smallest form to complex ecological relationships. Topics include the scientific process, cellular biology, genetics, evolution, and ecology. Students are challenged to think critically and creatively and develop problem solving skills in science and everyday life.

Honors Biology 1 (9)

Year Course .5 Science credit each semester

NCAA Core

Honors Biology 1 is a lecture-laboratory course that is designed to cover Biology in greater depth than the general Biology course. The course, while covering the same breath of content, will require more critical, analytical and evaluative thinking skills. In addition, the course will require students to be more involved in the designing, carrying out, and analysis of their laboratory experiments. This course is highly recommended for students who are thinking about careers in STEM fields.

Physical Science (10, 11)

Year Course .5 Science credit each semester

NCAA Core

Prerequisite: Biology 1

The first semester provides an introduction to chemistry, with an emphasis on visual models. The student will encounter the atom, periodic table, bonding and chemical reactions. After this basis, the second semester is devoted to an introduction to physics, such as the laws of motion, energy, electricity, sound and light. Each semester is designed to guide the student to think more conceptually about physics and chemistry rather than dwelling on the mathematical language. During this course, labs are done frequently to link physics and chemistry to real world applications. Emphasis is on the Catholic Christian truth of God as Creator. This class should not be taken after Chemistry or Physics (unless specific instructor approval is given).

Chemistry (10, 11)

Year Course .5 Science credit each semester

NCAA Core

Prerequisite: At least a C in Algebra 1 or consent of instructor.

Chemistry involves the study of the composition and properties of matter and the laws that govern the combination of elements. Chemistry is both theoretical and applied. The basic concepts and methods of chemistry will be explored including periodic table, inorganic nomenclature, stoichiometry, gas laws and atomic and molecular structure. Unifying principles of chemistry are developed through laboratory observations. Students spend time relating chemical concepts to everyday life in a class atmosphere that stimulates the intellectual as well as the spiritual growth of each individual. The basic building blocks of God's creation will be studied in a traditional college preparatory course.

Honors Chemistry (10, 11)

Year Course .5 Science credit each semester

NCAA Core

Prerequisite: "B" or better in Algebra 1 and Biology 1

Corequisite: Algebra 2 recommended (if enrolled in Geometry, "A" in Algebra 1 recommended)

Students spend time relating chemical concepts to everyday life in a class atmosphere that stimulates the intellectual as well as the spiritual growth of each individual. This course will consist of the same material as regular chemistry with a higher concentration of math skills. Students will learn mathematical concepts in science: stoichiometry, solutions, acid base reactions, gas laws and energy, as well as atomic and molecular structure. Students will be required to use algebra skills in each chapter. This course will go at a faster pace. There is also more emphasis on lab work. This class is designed for students who plan to pursue upper areas of science after high school. Emphasis will be on the Catholic Christian viewpoint with God as the Creator. Students must pass the first semester before they can take the second semester of Honors Chemistry.

Inorganic Chemistry (11, 12)

Fall Semester Course .5 Science credit NCAA Core

Prerequisite: Chemistry or Honors Chemistry

This course deals with advanced concepts in chemistry. Students relate chemical concepts to everyday life in a class atmosphere that stimulates the intellectual as well as the spiritual growth of each individual. Laboratory work and chemical problem solving make up an integral part of the course. Throughout the semester students learn advanced inorganic chemistry topics such as stoichiometry, molecular structure, solutions, and acid/base chemistry. Emphasis will be on the Catholic Christian viewpoint with God as Creator.

Organic Chemistry (11, 12)

Spring Semester Course .5 Science credit NCAA Core

Prerequisite: 3 prior semesters of a Chemistry

This course deals with advanced concepts in chemistry. Students relate chemical concepts to everyday life in a class atmosphere that stimulates the intellectual as well as the spiritual growth of each individual. Laboratory work and chemical problem solving make up an integral part of the course. Throughout the semester students learn basic organic chemistry: functional groups, nomenclature, synthesis and hydrolysis reactions and biochemistry: carbohydrate, lipid and protein structure, naming and functions. Emphasis will be on the Catholic Christian viewpoint with God as Creator.

Advanced Placement (AP) Chemistry (11, 12)

Year Course .5 Science credit each semester NCAA Core

Prerequisite: "C" or better in Honors Chemistry and Geometry

Corequisites: Algebra 2 or higher math and Physics

This course deals with advanced concepts in chemistry. Students relate chemical concepts to everyday life in a class atmosphere that stimulates the intellectual as well as the spiritual growth of each individual. Laboratory work and chemical problem solving make up an integral part of the course. At the end of the year students should have equivalent knowledge of a college chemistry class. Emphasis will be on the Catholic Christian viewpoint with God as Creator. Students are required to take the AP exam at the end of the course. Students may earn college credit if they obtain an eligible score on the AP Test.

Physics (11, 12)

Year Course .5 Science credit each semester

NCAA Core

Prerequisite: Biology and Chemistry

Physics is the study of physical concepts and laws involving the relationship between matter and energy. This is a conceptually and mathematically in-depth course encompassing mechanics and some other physics topics such as electricity and magnetism, waves and optics, and heat and thermodynamics. Emphasis is on the Catholic Christian truth of God as Creator.

Honors Physics (11, 12)

Year Course .5 Science credit each semester NCAA Core

Prerequisite: "C" or better in Honors Chemistry or Chemistry teacher recommendation

Corequisite: Algebra 2 or higher math

Physics is the study of physical concepts and laws involving the relationship between matter and energy. This is a conceptually and mathematically rigorous course encompassing mechanics and some other physics topics such as electricity and magnetism, waves and optics, and heat and thermodynamics. This course is modeled after the curriculum for the College Board's Advanced Placement (AP) Physics 1 course. Emphasis is on the Catholic Christian truth of God as Creator. This class should not be taken after Physics unless with instructor approval.

Advanced Placement (AP) Physics 2 (12)

Year Course .5 Science credit each semester NCAA Core

Prerequisite: Biology, Chemistry and Honors Physics

This is a survey course encompassing electricity and magnetism, waves and optics, heat and thermodynamics, and some mechanics. It emphasizes how modern theoretical physics does not conflict with the teachings of the Catholic Church. Students are expected to have completed a year of physics before enrollment in the course; the syllabus picks up where Honors Physics ends. Students in this class are required to take the AP Physics 2 test at the end of the year. Students may earn college credit if they obtain an eligible score on the AP Test.

Biology 2 (10-12)

Year Course .5 Science credit each semester NCAA Core

Prerequisite: Biology 1

Corequisite: Chemistry or Physical Science

This course consists of a review of macromolecules, genetics, heredity, and evolutionary theory, followed by an investigation of various adaptations from organisms around the globe. As an integrated botany and zoology course viewed through an evolutionary lens, this course will aim to equip students to see causal links for various traits of plants and animals and explain how these traits are adaptations in their environments. This course features frequent labs, research, and presentation projects.

Space Science (11, 12)

Fall Semester Course .5 Science credit NCAA Core

Prerequisite: 2 previous Science credits

In this course, students will explore the wonders of the universe. Topics include space exploration and technology, Big Bang, formation of galaxies, the life cycle of stars, constellations, celestial bodies, solar system, black holes, and astronomical phenomena. Students will design, create, and explore using a variety of experiments and models to investigate large scale phenomena. Activities include a rocket launch,

nuclear fusion modeling, and black hole simulation. The course encourages critical thinking about space exploration and the scientific principles that shape our understanding of the cosmos.

Earth Science (11, 12)

Spring Semester Course .5 Science credit NCAA Core

Prerequisite: 2 previous Science credits

In this course, students will explore the dynamic systems of our planet. Topics include geology, weather and climate, oceanography, and the interactions between Earth's atmosphere, hydrosphere, and lithosphere. Students will study natural processes such as plate tectonics, volcanic activity, and the water cycle, while also examining human impacts on the environment. Hands-on activities, experiments, and data analysis will deepen students' understanding of Earth's processes, fostering critical thinking about sustainability and the future of our planet.

Arduino Engineering 1 (11, 12)

Fall Semester Course .5 Science credit NCAA Core

Prerequisite: completion or concurrent enrollment in Physics or Honors Physics

Students spend time in engineering by building and analyzing circuits, collecting data, and problem solving with Arduino technology in a physics laboratory environment that stimulates creativity as well as intellectual and spiritual growth. Emphasis will be on the Catholic Christian viewpoint with God as the Creator. Arduino is an open-source platform used for building electronics projects that consists of both a physical programmable circuit board and software that runs on a computer, used to write and upload computer code to the physical board. This semester will use a variety of components including a 16x2 LCD screen, a 4 digit 7 segment display, and a DHT temperature sensor.

Arduino Engineering 2 (11, 12)

Spring Semester Course .5 Science credit NCAA Core

Prerequisite: completion or concurrent enrollment in Physics or Honors Physics

Students spend time in engineering by building and analyzing circuits, collecting data, and problem solving with Arduino technology in a physics laboratory environment that stimulates creativity as well as intellectual and spiritual growth. Emphasis will be on the Catholic Christian viewpoint with God as the Creator. Arduino is an open-source platform used for building electronics projects that consists of both a physical programmable circuit board and software that runs on a computer, used to write and upload computer code to the physical board. This semester will use a variety of components including an i2c 20x4 LCD screen, a joystick, and an IR remote.

Anatomy and Physiology: Chemical Systems (11, 12)

Fall Semester Course .5 Science credit NCAA Core

Prerequisite: Biology, "B" or better in Chemistry

Corequisite: Physics

Anatomy and Physiology: Chemical Systems is designed for students considering pursuing a career in the health profession. Techniques, concepts, and vocabulary of anatomy and physiology are developed. Students in this course will concentrate on the nervous system, the special senses, the endocrine system, the lymphatic system, the urinary system, and pathology.

Anatomy and Physiology: Physical Systems (11, 12)

Spring Semester Course .5 Science credit NCAA Core

Prerequisite: Biology, "B" or better in Chemistry

Corequisite: Physics

Anatomy and Physiology: Physical Systems is designed for students considering pursuing a career in the health profession. Techniques, concepts, and vocabulary of anatomy and physiology are developed. Students in this course will concentrate on histology, the skeletal system, the muscular system, the cardiovascular system, the respiratory system, the digestive system, and pathology. Students are required to develop and apply appropriate laboratory techniques, including microscopy and dissection.

Social Studies

Goals For the Social Studies Department

- Understand political systems throughout the world past/present.
 - a. Be able to compare these systems to that of the United States government
 - Understand election processes and responsibilities of United States citizens
 - c. Understand the development of the United States political ideas and traditions
 - d. Understand American foreign policy and how it relates to the other nations of the world
- Understand the different economic systems to that of the United States and be able to compare these systems to that of the United States
 - a. Understand how different economic systems operate with regard to exchange, production, distribution, ownership, and consumption
 - b. Understand the impact of foreign trade on the world market and the United States economy
- Understand the events, trends, individuals, and movements that have shaped and continue to influence the history of Illinois, the United States and other nations
- 4. Understand world geography and the effects of geography on society
 - a. Locate, describe and explain places, regions and features on earth
 - b. Understand relationships between geographic factors and the economies and culture of nations
 - c. Understand the historical significance of geography
- 5. Understand the social systems and culture of the world
 - a. Be able to compare these cultural characteristics to those of the United States
 - b. Understand how social systems form and develop over time

World History & Geography (9, 10)

Year Course .5 Social Studies credit each semester

NCAA Core

This course combines the study of peoples, nations and historical events with the effects of geographical features on economies and cultures around the world. Students will learn the location and significance of countries and other geographical features through maps, discussion and the annual Geography Fair project. Historical events will be explored from a global perspective, showing students how events have affected cultures other than our own American background. Study of the Holocaust will specifically be addressed during that period of history. The course will also cover the significance of the Catholic Church on world history by covering topics such as the Reformation, Crusades, the Inquisition, and religious conflicts around the world.

United States History (11)

Year Course .5 Social Studies credit each semester

NCAA Core

This course consists of a comprehensive survey of the history of the United States from colonial times to the present. An interdisciplinary approach is used, focusing on the relationship between history, geography, politics, and economics. At this level the student will be involved in a critical analysis and evaluation of our nation's history. The effects and relationship between the Catholic religion and United States history will be explored throughout the course including the impact of the Church on colonization, tactics of political candidates and the election of John F. Kennedy.

Advanced Placement (AP) United States History (11)

Year Course .5 Social Studies credit each semester

NCAA Core

Prerequisite: A grade of "B" or higher in World History & Geography or permission of instructor.

The Advanced Placement United States History course is designed to provide students with the knowledge to critically deal with the people, events, and problems throughout our history. The AP program prepares students for intermediate and advanced courses by placing demands upon them equivalent to those of an introductory college course. Students will learn to assess historical materials, weigh evidence and interpret information so they can present reasons and points of view in a clear, persuasive essay format. Students will be taking the advanced placement examination at the end of the year and may receive college credit if they earn an eligible score. The same relationships and effects of the Catholic religion that was described for the United States History class will be incorporated for this course.

Civics (11, 12)

Semester Course .5 Social Studies credit

NCAA Core

The purpose of this course is to provide students with the knowledge, tools, and resources to be successful and contributory Catholic citizens in their communities. Through exploration of the inner workings of our government, discussion of current events, and individual research on issues in our local community, students will gain valuable insight on what it means to be a civically-engaged American. Students will also be tasked with completing an in-depth study of the Illinois and US Constitution, culminating in a state-approved Constitution test. Other important aspects of the course include learning how to run a successful campaign through a month-long, multi step "Mock Election," and a semester long project entitled "Community Betterment," which tasks students with completing an independent or group service project in pursuit of bettering the lives of others. This course fulfills the Civics graduation requirement.

Advanced Placement (AP) United States Government and Politics (12)

Year Course .5 Social Studies credit each semester

NCAA Core

The Advanced Placement United States Government and Politics course provides students with an in-depth look into our government and the American political landscape. By the end of the course, students will know the intricacies of federalism in America, how and why our political system was adopted, and what impacts the US government has on its citizens and the globe. The course culminates with taking the AP exam at the end of second semester. Students may earn college credit if they obtain an eligible score on the AP Test. This course fulfills the Civics graduation requirement.

Global Events & Politics (9-12)

Semester Course .5 Social Studies credit

This course focuses on both new and continuing events and issues in the world at the time of the course's offering. Special attention will be paid to American news as well as any relevant Catholic news. Ongoing political issues in America and the world (such as U.S. gun rights, global conflict and humanitarian issues, etc.) will be taught and discussed. Media literacy will also be an important aspect of this course as well, where students will learn how to stay informed as global citizens and how to discern what is fact or fiction. This course may not be taken concurrently with Civics.

Psychology 101: Introduction to Psychology Dual Credit (11, 12)

Semester Course 3 college credit hours, .5 Social Studies credit

Students will explore the study of psychology as a science and the determinants of human personality and functioning. This course also focuses on how we may use the principles of physical and emotional/cognitive growth, learning, personality functioning and coping, and social interactions in our everyday lives. Taught online by HCC faculty. Students are placed into a CCHS Study Hall where work for this course may be completed. You must first apply to take Heartland classes and then it can be added to your requests.

Theology

LIVING THE FAITH SERVICE PROGRAM

Essential to the Gospel message and teachings of the Catholic Church are the beliefs in the dignity and worth of each person and the calling of Christians to respond to those in need. Service opportunities exist to accommodate interests and gifts of all students. Parish, schools, and community enable students to serve those in need through a rich diversity of opportunities. All students are required to complete a minimum of five hours per quarter.

The primary guidelines are that every project demonstrates a connection to at least one of the Corporal/Spiritual Works of Mercy. Service hours should provide an opportunity for students to share time with those less fortunate (the poor, needy and disadvantaged). All Living the Faith Service must be through an approved agency/organization and approved by the Theology Department. Participation in the "Living the Faith Service Program" is a requirement for graduation.

Foundations of the Catholic Worldview (9)

Fall Semester Course .5 Theology credit

This course seeks to introduce students to ways of approaching big questions, such as "Why religion?", "Why Christ?", and "What is truth?" We examine how it is that one comes to know God, introduce Sacred Scripture in the context of the person and mission of Jesus Christ, and give students an understanding of the concept of salvation history & how Sacred Scripture reveals this history, its purpose, and its promise. In addition, this course gives students a working knowledge of key persons and events in salvation history, and an understanding of the various books of Scripture, particularly as they relate to Jesus Christ.

The Catholic Approach: Life in the Church (9)

Spring Semester Course .5 Theology credit

This course delves into Sacred Scripture, with a focus on the New Testament to help students have a greater understanding of Jesus Christ and His Church. We show how the Old Testaments points to and is fulfilled in the person of Jesus Christ. We will show the significance of Christ's life, death, and resurrection and the impact it has on humanity and the world as a whole. Students will be prepared to charitably defend common misconceptions about the Bible and the Church. We will emphasize the importance and intentionality of Christ establishing one Church and the importance of the sacraments, tradition, the apostles and the early Church. Students will come away having a greater relationship with Jesus, what he asks of us, and the role the Catholic Church plays in our lives today.

The Call to Holiness (10)

Fall Semester Course .5 Theology credit

In this course students will deepen their understanding of the Catholic faith and discover how to live out the call to holiness. Students will come to recognize the need for a life centered on Christ and understand that a vibrant prayer life is necessary to enter into a personal relationship with the Holy Trinity. Students will explore the Church's role as both Mother and Teacher, understanding that hierarchy ensures its endurance against the "gates of Hell." The course will also help students learn how to use their unique gifts and talents to fulfill their vocation and contribute to the Church and the world. Finally, students will delve into the formation of their conscience, acknowledging the reality of sin and the role of prayer, the sacraments, Church teaching, and Scripture in nurturing a well-formed conscience. This course provides a solid foundation for living out one's faith authentically and purposefully in today's world.

Mystagogy: The Sacramental Life (10)

Spring Semester Course .5 Theology credit

Mystagogy refers to being led "through the mysteries". This course will analyze, in particular, the purpose and meanings of the sacraments as these great *mysteries* of God's grace. What is the role of the Church in being a vehicle of this, and how can we fully engage in the sacramental life of the Church? It will also dive into where our life of grace and sacramental journey are leading us. There will be an analysis of the last things (heaven, purgatory, hell) as well as the different roles of the Communion of Saints (The Church Triumphant, the Church Suffering, and the Church Militant).

Philosophy and Ethics (11)

Fall Semester Course .5 Theology credit

This course aims to help the student form an understanding of the intellectual evidence and paths for belief in God. There will be a focus on learning how to properly think and form a Catholic worldview and look at the changes we are being asked to make in our lives. It will examine how to properly flourish and become people of virtue on our way to holiness. There will be an intentional focus on God's call in our vocation and an explanation of how to properly love God and others using Pope St. John Paul II's *Theology of the Body*.

Voices of the Church (11)

Spring Semester Course .5 Theology credit

Our ideas and worldview help guide our understanding of the culture around us and the purpose of humanity. The heroic and unsung lives of many have influenced and inspired generations of the Church to grow in sanctity and virtue. This course aims at understanding the role that holy men and women have played in instructing and guiding people on the path to God. It will analyze different traditions, practices, prayers, philosophies, art, literary and cultural achievements that have expressed the truth, beauty, and goodness of God. In times of triumph and suffering, in the heights of Christendom to the underground Churches around the world, the stories of grace and perseverance will help set a template for how to grow in our own time today.

Apologetics: Preserving the Truth (12)

Fall Semester Course .5 Theology credit

This course is designed to prepare Seniors for their first years after high school, equipping them with a vibrant and active prayer life, the knowledge to defend their faith, and the confidence to preach the Gospel with clarity and charity. Students will discuss concepts such as truth, Sacred Scripture, morality, and Catholic social teaching. There will be a significant focus on being able to express and defend Church teaching through dialogue and argumentation.

Intentional Discipleship (12)

Spring Semester Course .5 Theology credit

This final course in the curriculum hopes to highlight the beauty of a life lived intentionally for God. It seeks to help students gain an understanding of what it means to be a disciple, specifically through knowing Christ, as people of prayer, and by having a heart for evangelization. By focusing on the idea of discipleship and how that will practically look after high school, students will reflect and anticipate the necessary steps for continued spiritual growth in college, the work place, and their specific vocation. They will analyze and review spiritual practices, moral ideas, and the art of evangelizing and discussing their faith. Drawing from the book "Forming Intentional Disciples," students will understand the different thresholds of engagement, as well as approach how one is to engage the moral and ethical challenges of our age. They will explore ways to engage with the modern world politically and socially with a mindset of God's plan for humanity, as well as how to serve the needs of their family and community. Ultimately, students will take a deep look at what a vibrant and engaged Catholic life looks like today.

The Art of Living (9, 10)

Semester Course .5 Elective credit

What do I need to know to be able to live an authentic and fulfilling Chrisitan life? How do I become the best version of myself? How can I seek happiness and find excellence in my life? This course will cover the call of the human person to the One who loved them into existence. By understanding the role of grace, guidance, and virtue in our lives, we can make our way through this journey in a more joyful and fulfilling way. There will be an emphasis on practical life and spiritual skills and how to cultivate and sustain good habits. Much of the course is based on the wisdom of St. Thomas Aquinas and Aristotle, mixed with the spirituality of St. Francis de Sales and St. Ignatius of Loyola , and the modern commentaries of Dr. Scott Hahn and Dr. Edward Sri.

Walking with the Saints (9, 10)

Semester Course .5 Elective credit

Students will have the opportunity to explore the lives, writings, and theology of some of the Church's most influential saints. Students will be introduced to the stories, miracles, and impact these Saints had on our Church and how they shaped the Church we know today. The class will also learn about various Marian apparitions and their devotions, and special attention will be given to those modern saints whose impact still echoes in the world today. Students will also get a chance to dive deeper into those saints that influence their own spiritual lives, culminating in a final presentation shared with the class.

Morality and Social Justice (11, 12)

Semester Course .5 Elective credit

This course will look at the theology of the Human Person as a basis and understanding for the dignity they have and how to uphold, respect, and support it. We will analyze the background of how the moral truths of the Church are taught, formed, and discovered by the Magisterium. There will be a focus on the Social Justice principles of the Church that have been laid out in her Social Encyclicals, and practical applications of how to live these out in various vocations, how to implement them in the policy we support, and how they fit into our Worldview. Specifically we would look at issues like the government, family, working conditions, just wages, war, immigration and refugees, poverty, the environment, abortion and end of life issues, treatment of people of different races, religions, ideological background, the prison system and capital punishment, national and global economic policies, population increase, empowering local governments and communities, etc.

Faith in the Modern World (11, 12)

Semester Course .5 Elective credit

What does it look like to be a practicing Catholic in our Modern World? We'll take a look at the modern saints, ideas, and stories that shaped who we are today. By focusing on the distinct spiritualities of saints like Therese, Faustina, Pio, and Teresa of Calcutta, as well as the New Evangelization springboarded by our recent popes John XXII, Paul VI, John Paul II, etc. we will come to understand the great wisdom and

gifts given to lay people to live out their vocation in their own community. There will be a focus on practical tips of how to witness and engage in religious life and how to associate politically and form our conscience. There will also be a big picture look at the state of religion and Catholicism in society and an historical look at the changes from full to empty churches. How do we dialogue with religious "nones", atheists, and people of differing faiths? How can we understand the Church and its engagement with social issues in the modern world (contraception, abortion, same-sex marriage, transgenderism)?

Other

Study Skills (9)

Year Course .5 Elective credit each semester

This course focuses on the development of study skills necessary for success in high school. Developing effective strategies for studying, taking notes, taking tests and organization are key components of this class. Emphasis is placed on applying study skills to assignments from core classes. This provides support and opportunities for success in all the student's classes.

Success Ed 105: Life Success Dual Credit (11, 12)

Semester Course 3 college credit hours total, .5 Elective credit

Prerequisite: Completed application

This course will help students gain awareness of their academic, career, financial, and personal selves and facilitate development in each of these areas. Focus will be placed on gaining knowledge of self, identifying areas of strength and challenge, and mastering the tools necessary to achieve growth in these life areas. Taught at CCHS by CCHS faculty.

Independent Study on Campus

It is sometimes necessary for a student to take a required course as an Independent Study with permission of counselors and administration. This will be treated as a regular course and students will be expected to complete assignments, take tests, and have at least eight (8) grades per marking period. This grade will count toward a student's GPA unless otherwise noted. Students will be allowed to take no more than 1.0 credit in a subject area through Independent Study. Independent studies to take an AP exam will not carry AP weight.

Off-site Class Work

All off-site course work must be recommended by the Counselor and approved by the Principal. Students who are studying off campus full-time for a semester or longer will not be required to make up the Theology credit. Only full-time students will be allowed to participate in IHSA Athletics as a CCHS Saint.

Juniors and Seniors will be allowed to take the Dance I/Orchesis class through University High School. As part of the enrollment process students must get approval from their counselor at Central Catholic High School. A study hall will be required during the 1st and 5th blocks in order for students to be approved for the course. Students are expected to be at Central Catholic by the beginning of the second block of the day. Orchesis and the grade earned will be listed on the Central Catholic High School transcript and credit will be given.

Juniors and Seniors will be allowed to take one course per year through the Bloomington Area Career Center (BACC). Central Catholic policies apply for the grades and attendance for this course.

Bloomington Career Academy (BCA)

The Bloomington Career Academy (BCA), located at Bloomington High School, offers our CCHS students the following opportunities:

- 1. Information about careers in high technology fields.
- 2. Practical hands-on skill development (a chance to do things, not just talk about them).
- 3. Possibilities for easy entry and/or advanced standing in community college courses.
- 4. Opportunities to experience real work situations in a range of businesses and industries.
- 5. Preparation of marketable skills that will lead to a full and productive life.

Juniors and Seniors have the opportunity to leave CCHS for two blocks (1st block and 5th block) to attend classes at BACC in the program in which they are admitted by BACC. Students must have their own transportation and sign in at Central Catholic by 9:45am each day.

Programs run for a full school year from 7:25am-9:09am, earning 2.0 credits per year. Applications must be submitted through BACC's online application.. Because attendance at the Career Center is a privilege, carrying with it heavy responsibilities for attendance and behavior, the Central Catholic administration reserves the right to withhold applications or require withdrawal from a course..

The Dual Credit option for some courses is subject to change at the discretion of the community college.

Advanced Certified Nurse Assistant

Prerequisite: Completion of Nurse Assistant program, CNA certification, and approval from Certified Nurse Assistant Instructors.

Are you interested in getting hands-on experience in local hospitals, clinics, and medical offices? The Advanced CNA program is an internship program in which students gain learning experiences in local health care facilities. Students will benefit from speakers within the industry, enhance their technical skills, and develop workplace readiness. Students who have completed the BACC Certified Nurse Assistant program have an opportunity to apply for the Advanced CNA program. Students are chosen based on their clinical skills, grades, attendance, professionalism, communication skills, and leadership qualities. Participating internship sites include, but are not limited to: Carle BroMenn Medical Center, OSF St. Joseph Medical Center, Center for Wound Healing and Hyperbaric Medicine, and Illinois Cancer Care. This class is recommended for students planning for post-secondary education or career attainment.

Automotive Technology I

Available to: Juniors and Seniors

This course is designed to prepare students for an entry-level job or advanced training in the automotive service and diesel technology field. Students will develop skills in the design, theory, function, and diagnostic procedures of gasoline and diesel engines. In addition, all aspects of the vehicle will be covered, including safety, basic maintenance, braking systems, engine repair, suspension and steering, electrical/electronic, which include modern computer controls and emissions systems. Students will perform automotive service work with an emphasis on shop operating safety procedures.

Industry Certifications Available: ASE A1 – Engine Certifications.

Automotive Technology II

Prerequisite: Successful Completion of Automotive Technology I

Students will enhance the skills learned in Automotive Technology I as well as develop new skills. Students will learn to use advanced tools and equipment through hands-on experience with the latest technology in the automotive industry. Specific topics that will be covered in depth include safety, basic maintenance, braking systems, engine repair, suspension and steering, electrical/electronic, which include modern computer controls and emissions systems. The students will perform automotive service work with an emphasis on real world shop operating scenarios using teacher and community vehicles. Electric Vehicle theory and application methods including service, diagnostics, and repair.

Certified Nurse Assistant

Available to: Juniors, Seniors

Are you contemplating a career in health care? The opportunities are unlimited for trained professionals in the healthcare field. Upon successful completion of this course, students are eligible to take the state competency exam to become certified nursing assistants (CNAs). Classroom instruction includes certification in Basic Life Support/CPR and fundamental healthcare principles. Some of these healthcare principles include infection control, safety, patient confidentiality, measuring vital signs, bathing and grooming techniques, nutrition, and transferring residents. Students will participate in hands-on care of residents in long-term care facilities as part of the clinical requirements. Attendance is essential due to the number of state-mandated hours that are required. This class is recommended for students planning for post-secondary education or career attainment. Excellent attendance and communication skills are necessary. Industry Certifications Available: Certified Nurse Assistant License, and CPR/AED Certified

Housing Certifications Available. Certified Nuise Assistant License, and CFR/ALD Certified

Heartland Community College Dual Credit NURS110, 8 Credit Hours

CDL Trucking

Available to: Seniors who are 18 years old

This Commercial Driver's License (CDL) course, offered in partnership with Nussbaum Trucking Academy at Heartland Community College, provides comprehensive instruction in the safe and proper handling and operation of semi-trucks. The course includes classroom training for the CDL Learner's Permit, Essential Workplace Skills training in communication and customer service, and extensive behind-the-wheel training in an automatic or manual transmission semi tractor-trailer. Students will learn essential strategies for driving in hazardous conditions, observing laws and regulations, and properly loading and securing cargo. The course also covers the expectations and realities of a career in commercial driving. At the end of the course, students will take the Class "A" License Road and Skill Test, administered by the

Illinois Secretary of State's Office. This course is designed to fully prepare you for an entry-level position as a professional driver, with a strong emphasis on practical, behind-the-wheel experience.

Industry Certifications Available: Class A Commercial Driver's License through the Illinois Secretary of State

Computer Technology & Networking I

Available to: Juniors and Seniors

The Computer Technology & Networking course is designed to equip both the novice and experienced students with entry level computer technician proficiencies. Students will work closely with the instructor, an educational technology department, and local technology businesses to better their understanding of the material covered in class. The course will help students become adept with customer support techniques and key computer hardware architecture components, such as: the motherboard, processor, memory, drives, networks, power supplies, and peripheral devices for both desktop and laptop computers. Additionally, students will install, configure, and troubleshoot the significant operating systems utilized today. Significant lab time is provided to offer the student authentic hands-on experiences in working with computers. The goal is to prepare these students to take the COMPTIA A+ Certification (starting point for a career in IT) and have them available to assist schools' technology departments in a variety of manners. In addition to hardware curriculum, the class will also be working on basic networking knowledge and skills; connecting to a network, connecting to the internet through an ISP, network addressing, network services, wireless technologies, basic security, and troubleshooting your network. Industry Certifications Available: CompTIA's A+ Certification

Heartland Community College Dual Credit NETW150, 3 Credit Hours, NETW151, 3 Credit Hours

Computer Technology & Networking II

Prerequisite: Successful Completion of Computer Technology & Networking I

This course builds on the skills introduced in Computer Technology & Networking I. Students learn how to connect and install computers and peripherals together to create a computer network. Students build, configure, and maintain network servers along with installing and configuring various network operating systems such as Novell, Windows, and Linux. Students learn to use troubleshooting services, system monitoring utilities, and data backup and recovery systems. Other topics include learning how to connect various network components such as servers, computers, and printers together using data cabling, hubs, and switches. Students learn to run, terminate, and troubleshoot data cabling. In addition, students learn how to install and upgrade software across the network, as well as map drives and share resources such as printers, software, and files. The course includes setting up and configuring various network services such as TCP/IP, DHCP, DNS, VPN, terminal services, e-mail, and web services. Students learn how to secure and protect network servers and data as well as setting up and configuring a firewall, intrusion detection system, and encryption software for identifying and preventing potential network attacks.

Industry Certifications Available: CompTIA's Net Pro Certification

Heartland Community College Dual Credit NETW160, 3 Credit Hours, NETW167, 3 Credit Hours

Construction Trades I

Available to: Juniors, Seniors

This course provides an opportunity for students who are planning on entering a post-secondary educational program in construction or entering into the workforce at entry level. The focus of this class is hands-on construction. There will be emphasis on foundations, framing, exterior and interior finish, electrical, plumbing, and roofing. Students will develop workplace skills in basic math, hand and power tools, basic blueprint reading, safe work habits, proper job attitudes, technical jargon, and learn about the wide variety of opportunities in the field of construction.

Industry Certifications Available: OSHA 10-Hour Safety

Heartland Community College Dual Credit CNST101, 3 Credit Hours

Construction Trades II

Prerequisite: Successful Completion of Construction Trades I

This course provides an opportunity for students who are planning to enter a postsecondary educational program in construction or enter into the workforce at entry level. Students will enhance workplace skills in blueprint reading, mechanical systems, electrical wiring, and construction estimating and scheduling, while developing leadership roles.

Cosmetology I and II

Available to: Juniors and Seniors

Do you want to learn how to braid, style, and perm long and short hair? Then this is the program for you! Students attend Hairmasters, which is a Pivot Point Legacy School. While attending, students demonstrate competencies in two of the five classroom modules needed for the required Illinois State Board Exam. All students will focus on one module in the first year and another module in the second year. Classes will also attend the Midwest Beauty Show in Chicago, where they are able to network with over 50,000 hair, skin, and nail professionals. Module One will consist of styling hair in the wet and dry state. Training on manikins will develop an understanding of the shape of the head. Observation will be made of different ways of styling long and short hair. These methods may include braiding, curling, straightening, up and down styles, and many more. Students then practice these methods until they have mastered these techniques based upon industry standards. Module Two will consist of understanding the texture of the hair. This will include adding and removing texture to hair, as well as multicultural texture reformation. Observation will be made of different ways of perming using different chemicals and rod styles, and relaxing hair using different chemical relaxers. Students then practice these methods until they have mastered these techniques based upon industry standards. All hours accumulated during the student's time at BACC Hairmasters Cosmetology are credited towards the completion of the 1,500-hour course and licensure. First and second year students may also attend extra hours by attending night school to complete their certification early with the approval of their instructor. The Bloomington Area Career Center will pay for one-night school class. This program pathway can be completed at Hairmasters where they will prepare you to take the Illinois State Board Mandated exam.

Criminal Justice & Law Enforcement I

Available to: Juniors and Seniors

This program is designed to acquaint students with the various aspects of the criminal justice system, including the structure of law enforcement; procedures of criminal law; the court system; corrections; and juvenile justice. Students will first learn the basics of the criminal justice system and become familiar with criminal law and how it applies to individual rights. United States Supreme Court landmark cases will be examined to have a better understanding of their importance in today's role in our criminal justice system. Students will also hear from experts who will expand their knowledge about the multitude of career opportunities within the criminal justice field. Students will take part in field trips to various locations within the criminal justice specialty areas to see and learn about their daily operations. Students will also take part in various hands-on activities similar to the duties of a police officer, as well as explore aspects of various roles within the police departments, including exploration in forensic science, evidence processing, and steps to properly process a crime scene. Industry Certifications Available: CPR/AED and Stop the Bleed Certifications, OSHA 10-Hour Safety, Emergency Telecommunicator Certification

Criminal Justice & Law Enforcement II

Prerequisite: Successful Completion of Criminal Justice & Law Enforcement I

During this phase of the program, students will have the opportunity to explore more concise and detailed operations of the criminal justice field. Students will participate in various job-shadowing opportunities and off-site visits to select venues to gain a better understanding of specialties and characteristics within the criminal justice field. Independent study units will be used to allow a more advanced insight, as students will research and analyze actual police cases to examine findings and submit recommendations. Students will also have the opportunity to take on leadership and mentoring roles to first-year students and utilize their first-year experiences to assist in guiding students toward a successful year.

Industry Certifications Available: Emergency Telecommunicator Certification

Culinary Arts I

Available to: Juniors and Seniors

This course provides students considering a career in culinary arts and the food service industry with classroom instruction and lab experiences to develop job-related competencies. Students start with basic sanitation and workplace safety, and then continue with instruction on food handling, preparation, quantity production, quality control, planning, operation, and presentation. Commercial quality food service equipment will be used to prepare food and provide hands-on instruction for each area of food study. Industry Certifications Available: ServSafe Food Handler, ServSafe Food Protection Manager, and ServSafe Allergens Certifications Joliet Junior College Dual Credit CA106, 2 Credit Hours

Culinary Arts II

Prerequisite: Successful Completion of Culinary Arts I

This course provides students with leadership opportunities and responsibility for food service management. Students in this class have the opportunity to cater many different events. Students have the opportunity to plan menus, select food, supervise food preparation, develop pricing strategies, order food, and maintain safety and sanitation, while mastering operation of all food preparation equipment. Culinary related field trips and events will be part of the curriculum. Students develop skills that will prepare them for postsecondary education and employment opportunities.

Cybersecurity

Available to: Juniors and Seniors

This cybersecurity program is specifically designed for beginners. In this hands-on course, students will learn more about ethical hacking, uncovering vulnerabilities, and securing systems. Students will receive guidance from google experts and acquire essential skills for entry-level positions like cybersecurity analysts or security operations center analysts while having the unique opportunity to collaborate with local industry experts, gaining invaluable insights into the regional cybersecurity landscape.

Industry Certifications Available: Google Cybersecurity Professional Certificate, CompTIA Security+

Cybersecurity II

Prerequisite: Successful Completion of Cybersecurity

This Network Security course offers a solid foundation in key security principals within computer and information technology. Students will learn to identify and counter various network threats, including attacks on email, web applications, remote access, and file and print services. Core topics include authentication protocols, malware detection, secure communication channels, intrusion detection systems, and firewall implementation. Through hands-on experience with Google Cloud tools like Cloud Shell, Cloud Storage, and the Security Command Center, students tackle real-world cybersecurity challenges while working towards a Google Cloud Cybersecurity certification. The course also includes training in essential cybersecurity programming languages, equipping students with the skills needed to build secure systems and respond to evolving cyber threats.

EMT (EMERGENCY MEDICAL TECHNICIAN)-BASIC

Available to: Seniors

This course will introduce the care and handling of the critically ill and injured. Emphasis is on the development of skills in assessment of illnesses and the application of proper emergency care procedures. This course will meet federal and state guidelines for basic EMT training. Students who successfully complete this course will be able to sit for the National Registry EMT-Basic licensure exam after turning 18 years of age and graduating from high school. Highlights include ride time at the local fire departments and hands-on practical training. Industry Certifications Available: EMT-B License, CPR and Stop the Bleed Certifications, Emergency Telecommunicator Certification, OSHA 10-Hour Safety

Heartland Community College Dual Credit EMT 101, 8 Credit Hours

Esthetics I & II

Available to: Juniors and Seniors

This program will improve your understanding of day-to-day skincare, specialized skin treatments, and more. Our curriculum is ideal for aspiring facialists, waxing specialists, body treatment specialists, and makeup artists. Work as an esthetician sees you addressing unique skin conditions and composing equally-unique skincare treatment programs while also helping clients through questions about hair removal, makeup applications, and more. All hours accumulated during the student's time at BACC Esthetics are credited towards the completion of the 750-hour course and licensure.

Fire Science

Available to: Juniors, Seniors

This program allows students to explore and prepare for a possible career in the Fire Service. Professional Firefighters teach the course. Students will gain lab experience on-site at Bloomington and Normal Fire Stations and will learn technical and manipulative skills. Those skills include, but are not limited to, the following areas of study: fire behavior, safety, selfcontained breathing apparatus, turnout gear use, portable fire extinguishers, ladders and ladder use, fire hose and appliances, building construction, forcible entry, ventilation, water supply, nozzles and fire streams, rescue, fire control, and ropes and knots. The students will be offered the opportunity to participate in Skills USA, a competition of other fire science students in Illinois. Students must be in good physical condition to enroll in the course, as training will include climbing stairs and crawling with additional equipment and supplies.

Industry Certifications Available: First Responder Certification Illinois Central College Dual Credit FRSTK110, 3 Credit Hours FRSTK113, 3 Credit Hours

Foundations of Teaching

Available to: Juniors, Seniors

This course introduces students to the core principles of teaching and learning, along with the responsibilities of educators. Combining classroom instruction and field experiences, students will gain practical knowledge of instructional planning, classroom management, assessment techniques, and creating effective learning environments. The course also explores cultural diversity in the American classroom, focusing on understanding and working with diverse student groups, and examining the relationship between schools and their cultural contexts. Students will develop teaching objectives, design lesson plans, and practice teaching in a controlled setting. The course also covers career opportunities in education, Illinois licensing requirements, and essential skills like time management and classroom presentation. By the end, students will be well-prepared for future exploration in the education field.

Heartland Community College Dual Credit: EDUC101, 3 Credit Hours, EDUC135, 3 Credit Hours

Graphic Design & Video Production I

Available to: Juniors, Seniors

Do you want to know how to turn your ideas into digital graphics? Do you have a skill at conceptualizing advertising graphics and want to turn them into usable pieces? Students in this course will develop skills used by digital media graphic designers, desktop publishers, and other members of the multimedia/communications industry. Students will be using industry standard software packages, such as: Photoshop, Illustrator, Final Cut Pro X, Logic Pro, and more. Students will be introduced to drawing techniques, digital photography, page assembly, multimedia production and print technologies, as well as vinyl printing and branded apparel design. Students will also utilize the steps necessary to mass produce digital media designs. If you are considering a career in graphic arts, this is the class for you! Industry Certifications Available: Adobe Illustrator Software and Adobe Photoshop Software Certifications
Heartland Community College Dual Credit DMED101, 3 Credit Hours

Graphic Design & Video Production II

Prerequisite: Successful Completion of Graphic Design & Video Production I

Students in this class will receive intensive study in advanced digital media design. Students will have the opportunity to establish a leadership role within the print shop, and partner with outside resources to create projects for distribution. This class is recommended for students who are considering a career in the industry as well as preparing for post-secondary education.

Heartland Community College Dual Credit DMED120, 3 Credit Hours

DMED130, 3 Credit Hours

Health Careers and Medical Terminology

Available to: Juniors, Seniors

Health Careers and Medical Terminology is a one-year program offered to sophomore, junior, and senior students interested in pursuing a career in the medical field or in public safety. Students will learn basic human anatomy and physiology, a solid foundation in medical terminology, and injury/disease processes. Students will have many opportunities for hands-on training and skills development. It will provide a clear understanding of the first aid process in an emergency situation. The course will explore many medical career options such as Physical and Occupational Therapy, Radiology, Dental Assistant, Nursing, Sports Medicine, X-Ray Technician, as well as Physician specialties. It will give students an up-close look at employment opportunities and educational pathways. Multiple guest speakers from various backgrounds and career opportunities will present to the class.

Heartland Community College Dual Credit HLTH110, 3 Credit Hours

Heavy Equipment Repair and Operation

Available to: Juniors & Seniors

Heavy Equipment Repair and Operation equips students with the skills and knowledge needed for a successful career in the heavy equipment industry. Through a combination of classroom instruction and hands-on training, students learn to operate and maintain a variety of heavy equipment. The program emphasizes safety, preventative maintenance, troubleshooting, and repair techniques, ensuring that students can confidently handle equipment used in distribution, manufacturing, and utility industries. With real-world experience gained in

our yard and shop, students graduate with the foundational skills required to meet industry demands and excel in the workforce. Students must hold a valid Illinois driver's license.

Robotics & Engineering

Available to: Juniors, Seniors

Students enrolled in this course will demonstrate the knowledge and skills necessary for robotic and engineering industries. Through implementation of the design process, students will apply concepts learned in physical science and physics classes to mechanical devices. Students will develop skills in mechanical design (CAD), and construction as they work in teams to build simple and complex robotic devices. They will build prototypes or use simulation software to test their designs. Additionally, students will explore career opportunities, employer expectations, and educational needs in the engineering fields.

Robotics & Engineering II

Prerequisite: Successful Completion of Robotics I

The second in a sequence of courses that prepares individuals with a lab-based, hands-on curriculum combining electrical, mechanical, and engineering principles. Students will learn to design, build, program, and control robotic devices. Additionally, students will explore career opportunities, employer expectations, and educational needs in the engineering fields.

Industry Certifications Available: Onshape (CAD) Certification. Drones Certification & Competitions

Industry Certifications Available: Onshape (CAD) Certification. Drones Certification & Competitions

Welding I

Available to: Juniors, Seniors

Location: BACC and Tri-Valley High School

This course is designed for students with an interest in the field of manufacturing, which includes machining, sheet metal, computerized machines, and welding. Classroom instruction will include workplace safety, blueprint reading, applied math, training of hand and power tools, and instruction on proper procedures of laboratory equipment. Specialized laboratory learning experiences include planning, manufacturing, assembling, and metal fabricating process. Students will develop skills necessary to continue with post-secondary education or obtain an entry-level position in the manufacturing occupations. Students will also benefit from the business partnership with Caterpillar. Industry Certifications Available: American Welding Society (AWS) Certification

Heartland Community College Dual Credit WELD118, 3 Credit Hours

Welding II

Program held at BACC and Tri-Valley High School Prerequisite: Successful Completion of Welding I

Students enrolled in this course will enhance their opportunities for obtaining employment in manufacturing. Students will specialize in an area of interest while mastering blueprint reading, applied math, training of hand and power tools, and instruction on proper procedures of laboratory equipment. Students will also increase the amount of lab experience in the area of Computer Numerical Control (CNC) by using a lathe and vertical mill. Students experience 95% hands-on activities during the second year and may work towards the American Welding Society (AWS) certification in Shielded Metal Arc Welding (SMAW). Students will also benefit from the business partnership with Caterpillar.

SkillsUSA

SkillsUSA is a nationally recognized organization that helps high school and college students enhance traits and skills that will help them succeed in the workforce. Members participate in local chapter meetings to develop leadership, teamwork, citizenship, character, and self-confidence as they attend classes to learn career and technical skills. State and National level competitions allow students to display the leadership and occupational skills they have learned throughout the year, and students are assessed by industry-driven standards. SkillsUSA provides access to postsecondary scholarships and training to prepare workers for a lifetime of success in and out of the workplace. Any student enrolled in a BACC program is eligible to participate in SkillsUSA