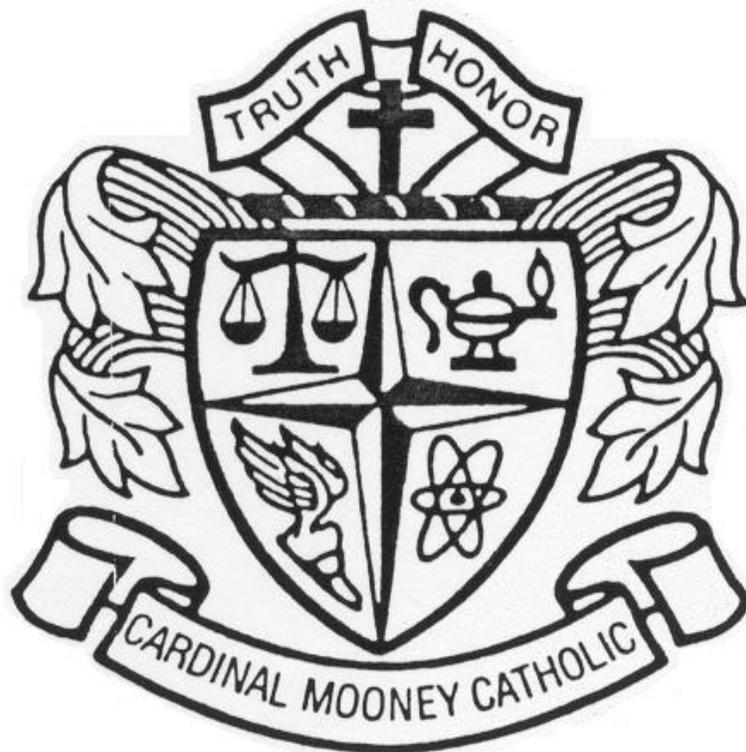


Cardinal Mooney Catholic
A College Preparatory High School

2017-2018

Course Catalog



Enter to Learn; Leave to Serve

Introduction

SERVICES

The faculty and staff of Cardinal Mooney Catholic has prepared this course catalog for students and parents/guardians as an aid and guide in schedule planning and selecting courses that are best suited to meet the needs of our students. Although the Guidance Counselor carries the greater part of the school's responsibility in planning with the student a program of study, student/parent or student/teacher discussions make the process a more informed and supportive one. Students are encouraged to think about their career and college as early as possible so that they can select courses that would be beneficial to them in planning for their futures.

To meet the needs of all students, services such as tutoring, study skills, college guidance, career information, personal counseling, and support groups are available to each student. Tutoring can be arranged through teachers, administration and NHS for those experiencing difficulties. Students can meet with the tutor during lunch, before, or after school. For those students seeking help, there are subject-specific interventions available through the week.

ACADEMIC PROBATION

A student who does not achieve a 2.0 GPA at the end of any quarter will be placed on academic probation. If the student's grades do not improve by the end of the next quarter, probation would continue and a meeting of parents, teachers, and the student will be called by the counselor. After this, if a student still shows poor academic performance, he/she may be asked to withdraw from Cardinal Mooney Catholic.

POLICIES

- Any student receiving an incomplete (I) as a grade has two (2) weeks after the end of the quarter to complete the course requirements. If that is not done, the grade will be automatically calculated and recorded as is.
- Each Cardinal Mooney Catholic student must take seven (7) classes each semester.
- Cardinal Mooney is a closed-campus environment. The only exception would be students enrolled in the Publication classes.

SCHEDULE ADJUSTMENTS

- Once schedules have been issued, a brief scheduling adjustment period will be announced. This period will cover both semesters and will last no longer than 2 weeks into the semester. Changes are limited by available space and the overall rigor of the student's schedule.
- The only adjustments made after the start of classes will be teacher-initiated, level changes, or conflicts resulting from first semester course failures. Year-long courses **may not** be dropped at the semester break.
- A schedule change fee of \$50 will be charged unless an administrative error was made or summer school work necessitates a change in course selection.
- In an effort to maintain balanced classes, teacher changes will not be made.
- In order to eliminate the need to make schedule changes, care should be taken when selecting courses and alternate choices.
- Students enrolled in AP courses are not permitted to drop or otherwise switch out of these courses. The placement of a student in the course represents the faculty's confidence that the student can successfully complete that course's curriculum. There are no exceptions to this policy.

ELECTIVE COURSES

- Certain elective courses will be offered as 0.5-credit courses meeting on alternating days throughout the year, and will be scheduled in pairs.
- These courses are marked in the course catalog with a designation of “Elective – Block”
- Students will be asked to rank their top choices from any elective block they choose. The goal will be to enroll each student into their top 2 choices, though this cannot be guaranteed.

ADVANCED PLACEMENT AND HONORS COURSES

- Students wishing to enroll in Advanced Placement (AP) and honors courses must receive teacher approval before being admitted into that course. This is done on a course-by-course and student-by-student basis by a committee of teachers and administrators. Requesting to be in an AP or honors course does not guarantee admission to the course.
- Students enrolled in AP courses are required to take the AP test in the first weeks of May. The fee for this test (\$93 for the 2017-2018 school year) is due in the first month of the school year.
- Students enrolled in AP courses are required to take all exams: the midterm, the AP exam in the spring, and the final exam. Seniors who are exempt from their midterm or final **are still required to take these exams**. The score in this case will be reflected as a test grade for the 2nd or 4th quarter (respective to midterm and final exam), not as the exam grade. All other students will have the midterm and final exam reflected as the exam grade, as per usual.
- Prior to the beginning of summer break, all students enrolled in AP courses for the following school year must sign a contract with the teacher of the AP course(s) the student is enrolled in. This contract will state that AP students waive the right to the schedule adjustment policy and 2-week schedule change window. This means that, once enrolled, an AP student may not drop the AP course. AP courses officially begin at the conclusion of the previous school year, as all AP courses have required summer work that must be completed prior to the start of the school year without exception.

AUDITS

All students are required to carry and complete 7 credits each school year. Under special circumstances, and with the approval of administration, students may audit a course in which credit will not be earned. The course will appear on the student’s transcript with the code Z (Audit Pass) and numerical score earned or code NZ (Audit Fail) with numerical score earned. The student must attend classes regularly and complete all the work of the course. Regardless of pass or fail, the score will be recorded on the student’s transcript. No student may audit more than one class a semester. Audit classes will follow the regular guidelines for schedule adjustments. Audit classes must be in addition to the required 7 courses

SCHEDULING AND ENROLLMENT

Courses are scheduled for all students enrolled in Cardinal Mooney Catholic for the upcoming year with the goal to offer each student their first choices for all courses. Any student who enrolls past the enrollment deadline will not be afforded this same treatment. Exceptions and accommodations cannot be made for those who miss this deadline.

Cardinal Mooney Catholic High School
COURSE of STUDIES 2017—2018



RELIGION

Intro to Catholic Philosophy and Philosophical Critique

11-12-Elective

This course will introduce and explore the tradition of western philosophical thought and critical thinking. The approach will be to examine a sample of transcendent questions that have intrigued humanity throughout history. These questions will be examined through the writings of a selection of historical thinkers with an emphasis placed upon the most influential thinkers of Catholic/Christian tradition.

9-12 (previously 9th) Required

The Bible: the Living Word of God provides an introduction to the Sacred Scriptures and to the unfolding of salvation history, with a particular focus on Jesus Christ as the fulfillment of salvation history.

9-12 (previously 9th) Required

Jesus Christ: God's Love Made Visible This course leads the students to a deeper understanding of Divine Revelation, the Trinity, the Incarnation, Jesus, Salvation, and the discipleship as a response to God's love.

9-12 (previously 10th) Required

The Paschal Mystery leads the students toward a deeper understanding of our need for redemption and how Jesus is the fulfillment of God's promise of redemption. This course explores how, through his suffering, death, Resurrection, and Ascension, Jesus makes our redemption possible.

9-12 (previously 10th) Required

The Church in this course the students understand how through the Church we encounter the living Jesus. The course explores the origin, the human and divine elements, and the ongoing mission of the Church.

9-12 (previously 11th) Required

Prayer and Sacraments: This course examines personal and communal prayer as avenues to deepen your relationship with God. It also addresses the Liturgy and Sacraments as graced encounters with Jesus Christ. Student projects will entail reflection on their personal experiences of belief and prayer.

9-12 (previously 11th) Required

Christian Morality: This course explores the biblical foundations of Christian morality, in particular through examination of the Ten Commandments and the moral teachings of Jesus. Students will apply the biblical and theological lessons of Christian morality, including John Paul II's Theology of the Body, to contemporary moral issues.

9-12 (previously 12th) Required

The New Testament: This course studies the Catholic approach to Scripture and applies it to the New Testament canon. The students will examine historical, hermeneutical, Christological and ecclesial questions through a careful analysis of New Testament texts. Texts studied will include the entire Gospel of Mark, as well as selections from the other gospels, Acts of the Apostles, several epistles and Revelation.

9-12 (previously 12th) Required

Catholic Social Teaching: This course examines the foundations of Catholic Social Teaching in Scripture and Tradition. Then it explores the response of the Church to evolving social issues, as the Church proclaims a coherent social vision rooted in the dignity of the human person, who is made in the image and likeness of God.

ENGLISH

English 9

9-Required

English 9 focuses on the student's development in reading and grammar. Students will explore a selection of classic and contemporary narratives and informational texts, including short stories, poetry, novels, drama and essays. The course emphasizes a global appreciation for literature while developing critical thinking skills and enhancing knowledge of vocabulary and literary terms. Students strengthen their written and oral communication skills through various writing and speaking activities.

American Literature

10-Required

American Literature will develop an understanding and appreciation for literature, including short stories, novels, poetry and drama. Students master the paragraph and learn to write different types of essays and learn to use in-text citations for quotations. Students will also work on projects and complete oral presentations. The course also includes vocabulary, sentence structure and grammar usage/punctuation skills.

Honors American Literature

10-Prerequisite teacher and department approval

Honors American Literature is a faster-paced course than the American Literature class with more individualized assignments. Students must demonstrate an ability to work independently and show organizational skills and an ability to self-start.

11-Required

British Literature/Advanced Composition focuses on a chronological survey of British writings. The students will recognize the major authors, movements, forms, and works in British literature as well as respond to literature through discussion and analytical, creative, narrative writing. Students will hone their speaking skills through a variety of oral presentations, including persuasive speeches. They will make connections between literature and history, culture, the arts, and language.

AP Language and Composition (\$93.00 test fee)

11-Prerequisite teacher and department approval

Students learn to understand and analyze complex works by a variety of authors. They explore the richness of language, including syntax, imitation, word choice, and tone. They also learn composition style and process, starting with exploration, planning, and writing. This continues with editing, peer review, rewriting, polishing, and applying what they learn to academic, personal, and professional contexts. In this equivalent of an introductory college-level survey class, students prepare for the AP exam in May, and for further study in communications, creative writing, journalism, literature, and composition. Students are required to take the AP exam in May.

World Literature

12-Required

In World Literature, students read and analyze works of world literature that reflect the rich and diverse history of the all parts of the world. As students' progress through centuries of literature in a loose chronological arrangement, they will see how world literature has been shaped by concerns, values, and ideas that have intrigued, delighted, and challenged people throughout time. Throughout the course, poetry, short stories, novels, drama, and nonfiction provide opportunities for critical writing, creative projects, and online discussions. Students develop vocabulary skills and refresh their knowledge of grammar, usage, and mechanics in preparation for college.

AP Literature and Composition (\$93.00 test fee)

12-Prerequisite teacher and department approval

AP Literature and Composition is a challenging course, and students are expected to read at least one required novel over the summer prior to the class beginning. Students will read more novels and plays than the World Literature class and move at a faster pace. They will increase their vocabulary, complete projects, make oral presentations, and write different types of papers including a critical analysis, timed essays, and, an investigative research paper. Novels, plays, short stories, non-fiction and poetry are read and discussed that cover the history of literature from the Greeks to modern writers. Students are required to take the AP exam in May.

MATHEMATICS (see Appendix A for appropriate track)

Applied Algebra

9-Placement

Applied Algebra begins with an extensive review and re-enforcement of arithmetic fundamentals that leads into algebraic concepts and their application to problem solving, from linear functions to more complex multi-step equations.

Algebra I

9-Required

Algebra I includes a review of rational numbers, solving equations and inequalities, operations with polynomials and rational expressions. Graphing linear equations and inequalities are introduced. Also included in the course are sections on problem solving applying algebraic concepts.

Geometry

9 and 10-Required

Geometry is the study of shapes, sizes and special properties of geometric figures. Students study triangles with emphasis on congruent triangles and their applications; properties of quadrilaterals including parallelograms, rhombuses, rectangles and squares; transformations of geometric figures; similarity of geometric figures and the use of proportions; right triangles and trigonometry; circles including angles and segments in relationship to the circle; areas of polygons and circles; solid figures including surface area and volume. Students are exposed to constructions and coordinate geometry with each unit. Applications of geometric principles are made to today's world and to other fields of mathematics. Problem solving/logical reasoning is a major component of this course as students learn to plan and write both formal and informal proofs.

Algebra II

10 and 11-Required

Algebra II reviews and extends algebraic concepts from Algebra 1. Topics covered in Algebra II includes a review and extension of linear equations and inequalities, an in-depth study of quadratic equations and inequalities, the operations of matrices and polynomials, the rational irrational roots of equations, and an introduction to complex numbers.

Algebra II A

11-Placement

Algebra II A will cover the same content of Algebra II over 2 years. This is the first-year course.

Algebra II B

12-Placement

Algebra II B will cover the same content of Algebra II over 2 years. This is the second-year course.

Honors Pre-Calculus

11 and 12-Prerequisite: teacher and department approval

Honors Pre-Calculus will include Trigonometry and other topics that are necessary in the study of calculus. Basic trigonometric functions are studied using both the methods of Euclidean and analytic geometry. Topics covered include radian measurement, solving right triangles, trigonometry on the coordinate system, graphs of trig functions, verifying trig identities, solving trig equations, and using the law of Sines and the Law of Cosines. Other units included are those on functions, logarithms, sequences and series, and the conic sections.

Statistics

12- Elective

This class will emphasize the applications of statistics. Students will learn to collect and organize data. They will study various sampling techniques. They will describe and interpret the data, calculating averages, standard deviations and correlation coefficients. Students will perform tests on significance in order to draw inferences, make predictions and decisions. This course is intended for students desiring a fourth year of mathematics but do not wish pre-calculus or calculus, or for students wishing to take this class concurrently with pre-calculus or calculus.

AP Calculus (\$93.00 test fee)

12-Prerequisite: teacher and department approval

AP Calculus is the study of calculus of one variable. Topics include a review of functions and graphs; limits evaluated graphically, numerically and analytically including infinite and one sided limits; the derivative including basic rules, the chain rule and implicit differentiation; applications of derivatives especially related rates of change; finding extremes, intervals of increasing or decreasing, and concavity of functions, and optimization; the process of integration with emphasis on Riemann's sum and the fundamental theorem of calculus; and basic integrations techniques. Students are required to take the AP exam in May.

SCIENCE

Biology

9-Required

Biology will begin with the chemical basis for life and will continue with a study of how a cell is built and how it works. The next section of the course covers genetics that allows the cell to reproduce itself and maintain information. The last third of the class covers the evolutionary progression of the main Kingdoms of organisms and their component divisions. The class will include a variety of forms of laboratory work, projects and daily work to reinforce the main concepts. Although presented at the college prep level, this course is intended to be an introductory class to biological study.

Chemistry

10-Required

Chemistry is the study of the composition of materials and the changes that they may undergo. This course introduces the fundamentals of chemistry: metric system, chemical math, gas laws, atomic theory, chemical bonding, formula writing, equation balancing, predicting chemical reactions, stoichiometry, chemical kinetics, chemical equilibrium, acid-base chemistry, oxidation-reduction reactions and possibly an introduction to organic chemistry at an accelerated pace. This course emphasizes laboratory work, lectures and demonstrations.

Honors Chemistry

10-Prerequisite: teacher and department approval

Honors Chemistry is the study of the composition of materials and the changes that they may undergo. This course introduces the fundamentals of chemistry: metric system, chemical math, gas laws, atomic theory, chemical bonding, formula writing, equation balancing, predicting chemical reactions, stoichiometry, chemical kinetics, chemical equilibrium, acid-base chemistry, oxidation-reduction reactions and possibly an introduction to organic chemistry at an accelerated pace. The material is presented in a greater depth and a faster pace than in regular chemistry. This course emphasizes laboratory work, lectures and demonstrations.

Anatomy & Physiology

11-12-Elective

Anatomy & Physiology class will focus on the structure and function of a vertebrate organism through laboratory investigation, lectures, projects and daily work. The course covers all the major systems in the vertebrate through cell and tissue investigation to macroscopic study of organs and systems. Dissection and microscopic work through projects and other activities will be done that relate to the system. The course also gives an overview of the structure and functioning of a typical mammal.

Physics

11-12-Elective

Physics class will cover the relationships between matter and energy and the changes that they undergo. A combined approach of lecture, discussion, labs, and mathematical application brings the topic into an everyday perspective.

AP Physics (\$93.00 test fee)

11-12-Elective Prerequisite: teacher and department approval

AP Physics 1 is an Algebra II-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry based learning, students will develop scientific critical thinking and reasoning skills. Students are required to take the AP exam in May.

AP Biology (\$93.00 test fee)

11-12-Prerequisite: teacher and department approval

AP Biology has four unit themes: Ecological Relationships, Molecular Biology, Reproduction and Development, and Evolution and Genetics. Appropriate laboratory work, scientific writing, microscopic investigation and projects will enrich the principles of each unit so students can see how everything fits into the grand scheme of Biology. Students are required to take the AP exam in May.

Earth/Environmental Science

11-12-Elective

Emphasis is placed on the human interactions with the Earth's geologic and environmental systems, predictability of a dynamic Earth, origin and evolution of the Earth system and universe, geochemical cycles and energy in the Earth system. This course teaches the connection between all living organisms within an ecosystem. It helps students better understand the impact humans have on the world around them and ways in which individuals can influence the environment through their actions.

SOCIAL SCIENCE

World History

9-Required

World History will provide students with the analytical and factual knowledge necessary to deal with the problems and materials in World History. Prepare students to understand the nine themes that include politics and history, the role of ideas, economics and history, the importance of cultural development, religion in history, the role of individuals, the impact of science and technology, the environment, and social life. Develop the necessary skills to arrive at conclusions on the basis of an informal judgment and to present reasons and evidence clearly and persuasively in easy format.

US History

10-Required

US History is a year-long two semester course analyzing the origins of the American nation in the Founding Era and the Civil War and then concentrates on the emergence of the modern era from the beginnings of the Industrial Revolution in 1870 to the end of WWII and Post War America. The course prepares students to grapple with fundamental questions concerning the history of the United States from the proper role of government in representative democracy to the role of social movements in shaping the character of the American experience. Close attention will be paid to the role of America in world affairs as well as examining how the economic conditions and policies have shaped the response of government and ordinary citizens alike. At the conclusion of the course students will have a ready command of the details of American history, allowing them both the historical perspective to comment on particulars as well as inform their thinking regarding current issues.

AP US History (\$93.00 test fee)

10-Prerequisite: teacher and department approval

AP US History provides students with the analytical and factual knowledge necessary to deal with the problems and materials in U.S. History. Prepare students for intermediate and advanced college courses by making demands upon them that are equivalent to those made by introductory college courses. Teach students to assess historical materials – their relevance to given interpretive problem, reliability, and importance – and to weigh the evidence and interpretations presented in historical scholarship. Develop the necessary skills to arrive at conclusions on the basis of an informal judgment and to present reasons and evidence clearly and persuasively in easy format. (Students are expected to complete summer work prior to the class beginning) Students are required to take the AP exam in May.

US Government

11-Required (One Semester)

US Government class covers the basic concepts of the American Government. It is an introductory course that will develop an appreciation of the six basic principles of the Constitution: Popular Sovereignty, Limited Government, Separation of Powers, Checks and Balances, Judicial Review and Federalism. Methods of instruction include reading/note taking, lecture/discussion, large and small group work, individual research, community resources, role-playing and simulations.

Economics

11-Required (One Semester)

Economics will cover the basic concepts of micro and macroeconomics. Students will be introduced to concepts of supply and demand; types of economies; competition; fiscal policy; monetary policy and international trade. They will understand how geography affects these concepts.

AP US Government, Politics & Economics (\$93.00 test fee)

11 (Prerequisite: teacher recommendation)

AP US Government, Politics & Economics is a course that requires the student to become familiar with the various institutions, groups, beliefs and ideas that constitute U.S. government and politics. Students will be required to analyze and interpret information contained in their textbook, current events, classroom discussions and various media sources. They will become very familiar with economic policies, both fiscal and monetary. Students are required to take the AP exam in May. (Students are expected to complete summer work prior to the class beginning)

AP Human Geography (\$93.00 test fee)

10-12-Elective

AP Human Geography is an introductory college course that will introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students learn to employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. Students are required to take the AP exam in May.

Honors Sociology

10-12-Elective

Honors Sociology is modeled after college sociology courses. Accordingly, this class moves at a relatively faster pace, requires independent reading and research, and uses college-level resources. Honors Sociology incorporates a variety of instructional methods, including lectures, social experiments, written critical reflections, small group presentations, and research projects. In order to be successful in the course, students need to apply a variety of sociological theories and frequently reflect on one's social location.

FOREIGN LANGUAGE

(2 years of high school foreign language required)

Spanish 1

Spanish 1 introduces the students to the Spanish language and culture. The course focuses on reading and comprehending short dialogues in Spanish. Students will develop basic vocabulary and grammatical skills to be used in conversational exercises.

Spanish 2

Spanish 2 is a continuation of Spanish 1 with emphasis on grammar, culture, history, and geography of Hispanic speaking nations? In addition to material presented in the texts, students are introduced to selected readings, short stories, and poetry from a variety of sources including children's books and newspapers.

Spanish 3

Spanish is a course for the intermediate Spanish student that focuses on a continuing development of conversational skills as well as the **reading** and **writing** of Spanish. In addition to the text, students read and discuss children's books, short stories, poetry, newspaper articles in Spanish, and a contemporary novel.

Honors Spanish 4

Prerequisite: teacher and department approval

Honors Spanish 4 is designed for the advanced Spanish student. Emphasis in this course is consistent exposure to Spanish speaking, listening, and reading stories by different Hispanic authors to enhance fluency and interpreting skills.

French 1

French 1 will focus in the areas of listening, reading, writing and speaking. The first year student will be able to use the present tense of frequently used verbs in all forms of speech: statements, questions and negative sentences. Students will be introduced to the French-speaking world, customs and traditions by means of audio, video, and cutting-edge technology. Cultural studies include French cuisine, school system, family life, calendar, music, geography and art.

French 2

French 2 students will demonstrate reading, listening, writing and speaking proficiency in the passé composé, recent past, near future and imperfect tense, imperative mood and other grammatical concepts. French historical and cultural knowledge will be closely related to the grammatical and lexical structure of the course.

French 3

French 3 will demonstrate listening, reading, writing and speaking proficiency in the following tenses: imperfect, pluperfect, present of conditional, and present of subjunctive used in different linguistic situations. Students will also study the French-speaking world. Studies of culture, literature and history will continue.

Honors French 4

Prerequisite: teacher and department approval

Honors French 4 builds and expands on the first three years of French. In this course, students will continue the balanced approach, but at a more complex level. The course is designed to improve the students' oral communication skills, competency in written expression, and comprehension of historical and literary excerpts. The French cultural studies continue in a more complete and extensive perspective including art, literature, religion, history and way of life.

Italian 1

Italian 1 will provide a basic practice in listening, reading, writing and speaking the Italian language. Learning will concentrate on bringing new vocabulary and grammar into relevant and meaningful communicative situations. Students will be introduced to the Italian culture, customs, and traditions by means of audio, video and computer technology that will enhance students' ability to communicate in Italian. Cultural studies will include Italian cuisine, family life, famous people, sports, free time activities, geography, art, and Italian catholic heritage.

Italian 2

Italian 2 emphasizes speaking and understanding Italian through vocabulary building, grammar applications, guided conversations and a variety of communicative activities that will improve students' pronunciation and comprehension. Students will continue to develop proficiency in the areas of listening, reading, writing and culture. Cultural studies will include Rome, music, vacations, getting around Italy, family celebrations and Italian Catholic heritage.

Italian 3

Italian 3 will engage students in a greater use of the language in the classroom with concentration on developing confidence with the language. More advanced grammar and vocabulary themes will be used as a foundation to further oral and written expression ability in Italian. Cultural topics include traveling, songs, influential Italians and Italian historic themes as well as an in-depth study of the cultural areas covered in the first two years of Italian.

Honors-Italian 4

Prerequisite: teacher and department approval

Honors Italian 4 builds and expands on the first three years of Italian study through further development of oral proficiency, written expression, reading comprehension, awareness and knowledge of important characteristics of Italian culture such as family, education, cinema, health care, music, politics, mass media, and catholic tradition by using authentic materials, audio, video, and cutting-edge technology.

ELECTIVE-BLOCK COURSES

FINE ARTS

Recommended Pairing:

Foundational Art-Other Elective

Techniques in Drawing- Techniques in Painting

Digital Photography – Digital Manipulation

Digital Illustration – Visual Communication Designs

AP Art

Foundational Art (\$20.00 fee)

9-12 – Elective

Foundational Art covers the basic elements and principles of art. Introduction to traditional studio material is explored with emphasis on basic technique. This course is designed for students with minimal art experience.

Techniques in Drawing (\$20.00 fee)

9-12-Elective

Techniques in Drawing is a foundational art course focusing on drawing media. Portraits, figure drawing, still life, and perspective are covered. Media such as pen/ink, charcoal, pastel, graphite, and colored pencil are covered.

Techniques in Painting (\$20.00 fee per semester)

9-12 Elective

Techniques in Painting is a foundational course focusing on traditional paint media. Basic color theory, painting styles, traditional technique, and experimental ideas are covered. Paint media such as watercolor, acrylic, and spray paint are explored.

Digital Photography (\$20.00 fee)

9-12 Elective

Digital Photography is an introduction to technical, intellectual, inventive, and expressive possibilities of a broad range of digital photographic processes. Emphasis on manual camera functions, composition, and experimental techniques are explored.

AP Studio Art (\$20.00 fee per semester; AP exam fee)

11 and 12-Prerequisite: teacher and department approval

AP Studio Art is for students seriously committed to the study of art. Students receive careful attention & guidance as they sharpen their skills, prepare a portfolio, and are made ready for art at the college level. The art world today and the possible careers in art are explored. Students need to be self-motivated and able to meet academic challenges. By May, students are expected to produce a portfolio for Advanced Placement.

Digital Manipulation (\$20.00 fee)

9-12 Elective

Digital Manipulation is an introduction to photograph manipulation and experimental techniques in Adobe Photoshop. Using photographic references, students will create surreal, juxtaposed images concentrating on natural blending utilizing tools in Adobe Photoshop. Software used: Adobe Photoshop CS6

Digital Illustration (\$20.00 fee)

9-12 Elective

Digital Illustration is an introduction to digital illustration using computer tools. This course includes the study of illustration as visual interpretation of words, concepts, and ideas. Students learn basic software skills while developing drawing abilities in a digital environment. Strategies for communicating content through pictorial narrative are also explored. No computer experience required. Software used: Adobe Photoshop CS6 and Adobe Illustrator CS6.

Visual Communication Design (\$20.00 fee)

9-12 Elective

Visual Communication Design is a course focusing on graphic, industrial, and UI design career opportunities. Students will focus on basic typography, branding and logo design, fundamental layout, product design, application design, and exhibit design. Software used: Adobe Photoshop CS6, Adobe Illustrator CS6, Adobe InDesign CS6, and Google SketchUp

Choir(\$10.00 fee per semester)

9-12-Elective-Prerequisite: teacher and department approval

Choir class focuses on the performing art of vocal music. Students learn basic music theory and study works of master composers. Throughout the course, students practice selections to present to the student body and the community. A basic knowledge of musical notation and the ability to read music is important

Music (\$10.00 fee per semester)

9-12 Elective

The student will develop a greater appreciation of music and its role in society through the exploration of the many styles of music throughout the human history. Students will be introduced to the basics of music theory, instrumentation and the creative process of composition.

Publications (\$10.00 fee)**11 & 12-Prerequisite: teacher recommendation**

Publications class develops skills needed to produce a yearbook and the student newsletter, *The Tweet*. Journalistic skills such as ad campaigns, layout and design are practiced. Students are required to obtain advertisements to support the cost of the Yearbook. They will gather strong photo images, produce well-written copies and illustrate solid designs. Knowledge of computers, basic art, and creative writing is beneficial. Students will need to complete all pages on schedule, and, if necessary, return after graduation.

Physical Education**9 and 10-Required One Semester**

Physical Education promotes an active healthy lifestyle. Students are exposed to traditional and non-traditional physical activities.

Weight Training /Advanced Physical Education**10-12-Elective**

Advanced Physical Education is designed to further enhance the fitness skills learned in regular Physical Education and promote the development of a fit, healthy lifestyle. The focus of the class will address the five components of fitness: resting measurements, cardiorespiratory endurance, muscular strength, muscular endurance and flexibility. Students will also go in depth, learning about the muscular system, thus being able to identify correct lifting techniques to strengthen each group. Students will be encouraged to personalize and maintain a fitness plan that helps them to achieve their own personal fitness goals. With this course as a guide, students will be empowered to create positive health behaviors within their own fitness and wellness throughout their lifetimes.

Health**9-10-Required (One Semester)**

Health class covers social issues and general health concepts associated with today's youth. It focuses on the most current information concerning modern problems such as nutrition, emotional and mental health, family life, substance abuse, smoking, and public health.

Academic Study Skills**9-12 - Department Assigned**

Academic Study Skills encourages students to work on specific study and organizational techniques. The techniques will increase the student's understanding and application of within the academic career.

Basic English (I, II, III, IV)**Foreign Exchange Students**

English as a second language introduces students to basic structures and vocabulary of the English language through the skills of reading, writing, speaking, and listening. Students learn strategies in order to advance their reading, listening, and pronunciation skills. They utilize level-appropriate conventions of grammar and punctuation with a minimum of errors.

Forensics/Mock Trial**10-12-Elective**

Forensics/Mock Trial focuses on developing the knowledge and skills necessary to live in our law-saturated society. Our co-curricular forensics program provides a wide variety of opportunities for students to improve their skills in public speaking, disciplines of rhetoric, logic, and argumentation. Additionally, the students will have a practical understanding of law, the legal system, and how it affects us. In addition, the student will develop an awareness of current issues, a great sense of justice, tolerance and fairness. 1st semester classes will participate in Mock Trial competitions.

Creative Writing**10-12-Elective**

This class will give students the opportunity to delve into their creative imaginations in writing. Creative techniques will be introduced and practiced, including internal dialogue, character sketch, descriptive, narrative, dramatic scene, short story and poetry. Students will peer edit selected pieces and produce final drafts that will be collected into students' portfolios.

Contemporary Literature**10-12-Elective**

In Contemporary Literature, students will engage with young adult and contemporary literature. The students will employ reading, vocabulary and analytical skills to present-day fiction and nonfiction works by authors such as John Green, A.S. King, Patrick Ness, Rainbow Rowell, Neal Shusterman, Jacqueline Woodson, etc.

ONLINE COURSES**10-12-Elective**

Students are able to choose from a variety of online courses that may interest them that are not offered here at CMC, but through Michigan Virtual School. Students who engage in online learning must be responsible and able to learn independently. Self-discipline is essential in having the ability to pace through the duration of their course. Students will be assigned an instructor through MVS and a mentor through CMC to help guide them to a successful semester. To view high school selections from the Michigan Virtual School please go to www.mivhs.org/course

DUAL ENROLLMENT

ACTG132 – Principles of Accounting I 4 college credits / 2 semesters LSSU (On CMC Campus)

10-12–Elective

An introduction to the principles and procedures of accounting as applied to proprietorships and corporations. Areas of study include the accounting, internal control and the asset, liability and equity sections of the balance sheet.

EGNR102 Concepts and History of Engineering 2 Credits / Fall Semester LSSU (On CMC Campus)

10-12–Elective

This course provides instruction on problem-solving techniques using engineering tools and concepts as students work on an engineering design project. Topics in engineering ethics and the engineering work experience are discussed. A history of engineering and the development of the specific engineering fields are presented. Pre- or co-requisite: MATH102 (Intermediate Algebra). Meets on Saturdays from 9:00-12:00 Noon

BUSN121 Introduction to Business 3 credits / Fall Semester LSSU (Online)

10-12–Elective

This course is intended to provide students a broad overview of the complex and dynamic contemporary world of business. The course will illustrate how human resources management, marketing, production, and finance are major functions that work together to help owners, employees and customers reach their objectives. Business must operate within economic, social, natural, technological, international, legal, and political environments.

PSYC101 Introduction to Psychology 4 credits / Fall Semester LSSU (Online)

10-12–Elective

This course is a survey of the basic principles, research concepts, and problems in psychological science. The biological, cognitive, and social perspectives of human thought and behavior are addressed. Topics include neuroscience, sensation & perception, learning & conditioning, memory, motivation, language, personality, social behavior, and psychopathology and therapy. Applications of psychology are also presented.

SOCY103 Cultural Diversity 3 credits / Fall Semester LSSU (Online)

10-12–Elective

This course introduces the student to racial, ethnic, gender and social class variation within the United States and the global community to enable the student to better understand, live with, and appreciate diversity.

Introduction to Graphic Design (KCDG 120) 3 credits Kendal College (On CMC Campus) Fall Semester

10-12–Elective

Focus on the principles, elements, and working procedures of the design and visual presentation of communication pieces.

The Digital Media program is designed to provide opportunities that are cross-platform and user-experience driven. They blend self-directed learning with hands-on instruction by experienced professionals. Projects and studio work may be centered around public service content, while allowing the freedom of creative expression that is necessary for every artist and designer for find their own voice.

Introduction to Drawing I (KCDR 131) 3 credits Kendal College (On CMC Campus) Winter Semester

10-12–Elective

Drawing initially emphasizes an exploration of traditional drawing techniques, materials, and processes, with a later emphasis to alternative and mixed-media drawing processes as potential elements in the advanced investigation of drawing as a vehicle for personal expression. Drawing, as a significant foundation of visual communication, is investigated as both an independent discipline and as a vital resource for the investigation of other disciplines.

Introduction to Graphic Studio (KCGD112) 3 credits Kendal College (On CMC Campus) Winter Semester

10-12–Elective

The Digital Media program is designed to provide opportunities that are cross-platform and user-experience driven. They blend self-directed learning with hands-on instruction by experienced professionals. Projects and studio work may be centered around public service content, while allowing the freedom of creative expression that is necessary for every artist and designer for find their own voice.

Introduction to 2D Design (KCPA) 3 credits Kendal College (On CMC Campus) Fall Semester

10-12–Elective

Drawing initially emphasizes an exploration of traditional drawing techniques, materials, and processes, with a later emphasis to alternative and mixed-media drawing processes as potential elements in the advanced investigation of drawing as a vehicle for personal expression. Drawing, as a significant foundation of visual communication, is investigated as both an independent discipline and as a vital resource for the investigation of other disciplines.

Appendix A

Mathematics Track 1

Algebra I

Geometry

Algebra II A

Algebra II B

Mathematics Track 2

Algebra I

Geometry

Algebra II

Pre-Calculus
or Statistics

Mathematics Track 3

Geometry

Algebra II

Pre-Calculus

Calculus