

Cardinal Mooney High School Course Descriptions Booklet for 2025-2026

INTRODUCTION

This booklet has been prepared to assist both students and parents in course selections for the 2025-2026 school year. Recognizing that the time of course selection is extremely important, we encourage each student and his/her parents to carefully review the information presented here so that proper course selections can be made. The program of studies chosen should be one which challenges the student to develop his/her total person, one which is based on the student's interests, abilities, and future goals.

In planning, the pages which present general guidelines should be studied carefully. Each student should then list the courses already completed and the credit earned, and project the courses he/she hopes to take during the remaining years at Cardinal Mooney. This overview should help ensure that graduation requirements are met, and that the student's program has purpose and proper sequence. The Guidance Department is available to assist in this planning in any way they are able and will meet with each student to go over his/her final course selections.

The selections in this course book represent all the courses that may be offered at Cardinal Mooney. Not all of them may appear on the final master schedule, however.

PHILOSOPHY OF EDUCATION

Cardinal Mooney is a Catholic high school whose community of students and their families, teachers, administrators, support staff, and alumni take pride in the school's family atmosphere and its purpose to live and proclaim the Gospel of Jesus Christ. The high school responds to the needs of its members by providing an enriching environment to help students grow intellectually, spiritually, and personally.

Cardinal Mooney educates students through steadfast traditions of scholarship, sanctity, and discipline -- traditions that have been highly valued since the school's inception. Through worship, learning, athletic, and extracurricular activities the goal is personal excellence and integrity.

Students come to Cardinal Mooney from Mahoning and surrounding counties. Because they represent diverse ethnic, racial, and economic backgrounds, students are encouraged to foster and promote greater understanding of others. Ultimately, the high school helps serve the needs of the community by empowering students to develop into productive, responsible adult citizens who are committed to service in the name of Jesus Christ.

MISSION STATEMENT

Cardinal Mooney High School, a Roman Catholic school of the Diocese of Youngstown, Ohio, is committed to providing a quality education in the supportive atmosphere of the Mooney Family. Our embrace of Gospel values and our traditions of sanctity, scholarship, and discipline enable our students to achieve personal excellence. We strive to develop leaders dedicated to social justice and service in the world community.

Profile of the Cardinal Mooney High School Graduate at Graduation

A person who lives a life informed and transformed by Gospel values, Mooney Family experiences, our three core values, and a dedication to excellence. *(Continued on page 2)*

A Cardinal Mooney graduate:

1. Embraces Gospel values:

- Leads a life inspired by the humble model of Jesus Christ and inspired by the Holy Spirit to serve and build God's kingdom
- Recognizes and responds to the movement of the Holy Spirit in his/her life to discern a particular vocation in the world
- Appreciates and respects the beauty, value, and goodness of all creation
- Engages in respectful relationships and collaborates with others for the common good
- Engages in critical reflection and application of Church teaching to the unique moral and ethical challenges of our global community

2. Embraces membership in the Mooney Family:

- Values the diversity of people and encourages acceptance by treating each person with dignity and respect
- Possesses self-confidence and a healthy sense of humor
- Lives for the service of others, making informed judgments and decisions, acting in accordance with the principles of Catholic social teaching and our democratic society, and going forth to love and serve the Lord and one another
- Shares time, talent, and treasure to support Mooney and the community

3. Embraces Mooney's core values of sanctity, scholarship, and discipline:

- o Sanctity
 - Develops a life of faith and relationship with God through ongoing study, prayer and participation in the sacramental and community life of the Church
 - Makes decisions with a formed Christian conscience based on Gospel values and the moral teachings of the Church
 - Enjoys a meaningful prayer life and understanding of the Catholic faith
 - Exhibits attitudes of justice, compassion, forgiveness, empathy, concern, and respect for others
 - Recognizes, develops, and respects the God-given talents of oneself and others
 - Respects life in all its forms and at all its stages
- o Scholarship
 - Assumes personal responsibility for life-long learning and intellectual curiosity
 - Applies critical thinking and problem-solving skills to real life experiences
 - Demonstrates proficiency and clarity in oral and written communication in a variety of content areas and disciplines
 - Demonstrates skills of scientific inquiry and math competency as well as information, media, and technology literacy
 - Appreciates the aesthetic value in art, music, and literature
 - Demonstrates knowledge of a broad range of disciplines including the humanities, world languages, and the social sciences
 - Demonstrates a balanced lifestyle that maintains physical, spiritual, and social emotional health
- o Discipline
 - Utilizes self-discipline and assumes personal responsibility for him/herself and others
 - Exhibits a work ethic, self-discipline, and persistence to pursue goals even when encountering challenges
 - Strives to achieve personal excellence
 - Acts as a respectful, contributing, flexible, effective member of a collaborative team
 - Serves as a role model to others by living a life built upon our deeply held, common values

4. Embraces excellence:

- Strives to lead and serve with integrity and a dedication to social justice
- Exhibits a sense of responsibility, stewardship, and commitment to economic justice, multicultural diversity, as well as protection and care for the environment

General Guidelines

GRADUATION REQUIREMENTS

Cardinal Mooney is a high school in the Diocese of Youngstown and chartered by the State of Ohio. The following are the requirements to earn a Cardinal Mooney diploma as prescribed by the Ohio State Department of Education and Cardinal Mooney High School.

1. Each student must successfully pass all required courses.

The minimum course requirements include:

English	4 Credits
Mathematics	4 Credits*
Theology	4 Credits**
Science	3 Credits***
Social Studies	3 Credits
World Language	2 Credits
Fine Arts	1 Credit
Health	0.5 Credit
Speech Communications	0.5 Credit (<i>beginning with the class of 2028</i>)
Physical Education	0.5 Credit (<i>2 courses at 0.25 credit each</i>)
Electives	2.5 Credits
Total:	<u>25 Credits</u>

* Four credits of Mathematics including one credit of Algebra II are required.

** This requirement may be adjusted for students who enter Cardinal Mooney after the ninth grade.

*** Science courses that qualify as a Physical Science course are any Chemistry or Physics course as well as Physical Science. Advanced sciences include: Chemistry, AP science courses, Anatomy and Physiology, Forensic Science, Environmental Science, and all Biomedical Courses.

2. Students must meet the minimum scores as designated by the State of Ohio on the IOWA Test which is the standard graduation test for all **Diocesan** high schools. Students take the IOWA test for the first time in the spring of freshman year.

Students who fail to meet any or all of the academic requirements for graduation may not be permitted to participate in graduation activities and will be at risk of not receiving a diploma.

ACADEMIC PROGRAM

Cardinal Mooney is committed to offering a rigorous academic program for all students. Mooney prepares students for college and success in future careers. The core and elective courses, including a STEAM-focused curriculum, collectively contribute to the holistic development of each student. This comprehensive approach ensures that students not only acquire essential knowledge, skills, and values but also gain a strong foundation in science, technology, engineering, and mathematics (STEAM) disciplines, preparing them to effectively tackle the challenges of the future in an increasingly technology-driven world. Students are required to meet the prerequisites for each course selected. Each student should choose core and elective courses that will best develop the talents, abilities, and prerequisites that align with his/her future goals.

A/B BLOCK SCHEDULE FORMAT

CMHS follows an A/B block schedule, where students attend four classes each day, alternating between "A" and "B" days. Each class lasts 80 minutes, allowing for deeper engagement, hands-on learning, and fewer daily transitions. This schedule provides consistency while giving students additional time to focus on their coursework.

COURSE LOAD

All students are required to enroll in at least 7 classes each semester. A student may schedule no more than one study hall each semester, to complete their 8 block schedule.

FINE ARTS REQUIREMENT

The minimum requirement for graduation includes successful completion of one credit in fine arts. Courses that fulfill this requirement include all Art, Industrial Art, Music and Drama courses.

HONORS COURSES

Honors courses offered within the Art, English, Mathematics, Science, Social Studies Departments, and World Language are intended to challenge the academically talented and dedicated student. These courses involve an accelerated, in-depth approach to the subject matter and students are expected to complete more comprehensive assignments than those in the standard college prep courses.

To enroll in an honors course, students must meet the stated criteria and fulfill the prerequisites. Due to the additional course requirements, grades from honors courses are on a 5.0 GPA scale. Refer to the *Parent/Student Handbook* for further information on weighted grades.

ADVANCED PLACEMENT COURSES

An Advanced Placement course is a college-level course offered to high school students. The content of the course and the rigor with which it is approached is the same as experienced on the college campus. AP courses are offered within the Art, English, Mathematics, Science, Social Studies, Technology, Music, and World Language Departments.

Students may earn college credit based on their score on an AP exam and the policies of the college or university where they enroll. Grades from Advanced Placement courses are on a 5.0 GPA scale in the computation of a student's cumulative grade point average. Prerequisites apply to enroll in these courses.

Students enrolled in an Advanced Placement course are **required to take the AP exam conducted by the College Board each May**. The fee associated with each exam is to be paid for by the student. Fee reductions are available for those who qualify.

HIGH SCHOOL COURSES COMPLETED IN 8TH GRADE

Students who complete a high school-level Math or World Language course in 8th grade may advance to the next course in the sequence at CMHS. **However, the course will not appear on their high school transcript, will not be an earned credit, and will not be factored into the student's GPA.**

To be eligible for placement in the next course, students must:

- Complete the course with a passing grade in 8th grade, taught by a properly certified high school teacher.
- Provide a syllabus or curriculum from the previous school to confirm that the course meets departmental requirements.
- Submit an official transcript from the previous school that includes the course name, credit amount, and final grade.

If approved, students may be eligible to be placed in the appropriate next course in the sequence. For example, a student who completes Algebra in 8th grade can be placed in either Geometry or Honors Geometry. Only Math and World Language courses are eligible.

COLLEGE CREDIT PLUS (CCP)

Students may also work with the counselor to apply to the College Credit Plus program which enables students to take college courses for dual credit. If Mooney offers an Honors or AP Course comparable to the College Credit Plus course a student completes, the CCP grade may be weighted. See the *Parent/Student Handbook* for a detailed explanation of this program and its requirements.

GRADING SCALES / GRADE POINT AVERAGE

At Cardinal Mooney, classes fall into one of two grading categories: College Preparatory or Honors/Advanced Placement. The Grade Point Average (GPA) is different for College Prep courses versus Honors/Advanced Placement courses (and comparable CCP courses that coincide with CMHS Honors or AP courses). See the chart below for a Grading and GPA breakdown, and read individual course descriptions for more details.

Letter Grade	Grading Scale Numbers below are percentages.	College Prep Courses Grade Point Average Value	Honors/Advanced Placement Courses Grade Point Average Value
A	100 - 93	4.0	5.0
B	92 - 85	3.0	4.0
C	84 - 75	2.0	3.0
D	74 - 67	1.0	2.0
F	66 and below	0.0	0.0
INC	Incomplete	0.0	0.0
P	Pass	0.0	0.0

ACADEMIC INTEGRITY

Cardinal Mooney High School fosters a Christian environment that promotes the values of truth, integrity, personal accountability, and respect for the rights of others. To uphold these values, honest evaluation of student progress relies on each student's commitment to genuine academic work.

Academic dishonesty occurs when students obtain or assist others in obtaining credit for work that is not their own. This includes plagiarism—using the ideas or writings of another without proper citation—or appropriating passages without acknowledgment. When academic dishonesty is identified, the student will receive no credit for the work or exam, and their parents will be notified by the teacher.

Cheating, defined as acting dishonestly to gain an advantage, includes behaviors such as communicating with others during a test, unauthorized use of technology (including Artificial Intelligence), or any action that undermines the integrity of an assessment.

Plagiarism, similarly, involves the unauthorized use or close imitation of another's language and ideas, including those generated by AI, misrepresenting them as one's own. Both cheating and plagiarism are serious disciplinary matters.

The following actions will occur in the event a student is discovered cheating or plagiarizing an assignment:

1. Assign a failing grade for that work to all involved.
2. Notify the parents and the assistant principal, who will document the incident in the student's disciplinary file.
3. Further action may be taken at the assistant principal's discretion.

POLICIES REGARDING SCHEDULE CHANGES

The staff and administration of Cardinal Mooney High School are committed to scheduling students for the classes they request in the spring. Consultation with the Guidance Department and parental approval are required before course selections can be finalized.

Following spring course registration, the school hires staff, orders supplies, and builds the Master Schedule based on student requests. Therefore, in general, requests to make a change to a student's schedule will be limited to the following reasons:

1. **The Administrative or Guidance Department initiated schedule changes.**
At times the administration/guidance department may make changes at their discretion to ensure students are receiving the necessary credits for graduation, students failed to meet prerequisites, to better balance class sizes and ensure that classes are not over scheduled.
2. **Teacher recommended schedule changes based on academic performance.**
Whenever possible, according to our schedule, these will be made on an individual basis and must have administrative approval.

Counselors will not make changes to a schedule if the desired course is at capacity, if the student does not meet prerequisites to be in the course, or if the student's reason for changing the course is unreasonable or unjustified.

Any request for adding or dropping a course must be made in writing on the schedule change form a student obtains from the Guidance Department after a discussion with a counselor. The form must be signed by the student, the student's parent or guardian, the counselor, and the teachers involved. **Schedule changes may only be made within the first two weeks of the semester.** Any exceptions to these policies must be authorized by the administration or guidance department.

GRADUATION HONORS

The classes of 2025 and 2026 are the last that will follow the explanations on this page. The classes of 2027 and beyond, will follow the “Graduation Recognition and Honors” on the next page.

VALEDICTORIAN/SALUTATORIAN (Classes of 2025 and 2026)

The graduating senior with the highest Grade Point Average (GPA) after the completion of seven semesters at Cardinal Mooney will earn the class Valedictorian award.

The class Salutatorian award will be given to the senior with the second highest quality point total after the completion of seven semesters at Cardinal Mooney.

Students who transfer into Cardinal Mooney after the first two weeks of freshman year are not eligible to receive Valedictorian or Salutatorian status.

HONORS CORDS

Honor cords will be awarded to those students who place in the top 15% of the class academically, based on the student’s cumulative GPA earned at the completion of the seventh (7th) semester.

To qualify for these graduation honors, a student must be enrolled for a minimum of three (3) consecutive semesters at Cardinal Mooney High School prior to graduation. The class of 2025 is the last class that will qualify for this honor. The classes of 2026 and beyond will follow the honors and awards on the following pages.

Graduation Honors and Recognition

Students are able to earn various distinctions and honors that may be recognized at their Senior Awards Ceremony or through another form of recognition. The list does not include all of the awards given at the Seniors' Awards Day Ceremony. Each award or recognition has its own requirements. Please read the details of each one.

Various Academic Awards/Recognition:

- Valedictorian
- Salutatorian
- Honors Diploma (*See the student handbook for specific details.*)
- Latin Honors
- Merit Scholars (*See the student handbook for specific details.*)
- Academic Programs:
 - BioMedical Program
 - Engineering Program
 - Studio Art Program

VALEDICTORIAN AND SALUTATORIAN ELIGIBILITY, CRITERIA, & FINAL DETERMINATION

Beginning with the class of 2027, to be eligible to earn the status of Valedictorian or Salutatorian, students must fulfill the following requirements:

1. Must be enrolled as a full-time student at Cardinal Mooney High School for a minimum of 7 consecutive high school semesters.
2. Valedictorian and Salutatorian statuses are **preliminarily determined** at the end of the 7th semester of high school (end of 1st semester senior year). However, those students who are preliminarily named, must still successfully complete the remaining course requirements and maintain the top two GPAs to maintain their designation. **Failure to meet academic expectations through the end of senior year may result in the revocation of the Valedictorian or Salutatorian title.**
3. Repeated courses will not be considered.
4. Students participating in the College Credit Plus (CCP) program are not exempt from the Cardinal Mooney course requirements and **MUST** discuss requirements to meet Valedictorian/Salutatorian status prior to scheduling CCP courses with their college.
5. GPA Requirement
 - Valedictorian must hold the highest cumulative GPA as preliminarily calculated at the end of the 7th semester of high school.
 - The Salutatorian must hold the second highest cumulative GPA as preliminarily calculated at the end of the 7th semester.
6. Successful completion of all **specific course requirements** listed on the next page:

Course Requirements for Valedictorian/Salutatorian Eligibility

Subject	Requirement	Courses <i>(required unless otherwise noted)</i>	
English	4 credits	1. Honors English 9 2. AP Seminar <i>(Class of 2028 and beyond)</i> 3. AP English Language and Composition <i>(Class of 2027 and beyond)</i> 4. AP English Literature and Composition	
Math	4-5 credits	1. Honors Algebra <i>(unless Algebra was taken in 8th grade - see handbook for more details)</i> 2. Honors Geometry 3. Honors Algebra II and Trigonometry 4. AP Pre Calculus 5. AP Calculus	
Science	4 credits At least 2 additional upper level sciences from the list provided.	Required: 1. Honors Biology 2. Honors Chemistry	Additional Course Options: Select at least 2 full credits from the list of advanced sciences below: <ul style="list-style-type: none"> • AP Biology • AP Chemistry • AP Physics • Anatomy and Physiology • BioMedical Program Courses One Advanced Science credit must be an AP course.
World Language	3 sequential credits of one World Language	Language Option 1: 1. Italian I 2. Italian II 3. Honors Italian III 4. AP Italian Language and Culture <i>(recommended)</i>	Language Option 2: 1. Spanish I 2. Spanish II 3. Honors Spanish III 4. AP Spanish Language and Culture <i>(recommended)</i>
Social Studies	4 credits	Required: 1. Honors Modern World History 2. AP United States History 3. AP U.S. Government & Politics	Choose one full (or two half) additional credit from the following: <ul style="list-style-type: none"> • AP Psychology (1 credit) • AP Human Geography (1 credit) • Psychology (0.5 credit) • Sociology (0.5 credit) • World Geography (0.5 credit) • Pre-Approved CCP course
Theology	4 credits (0.5 credits each)	1. Old Testament 2. Principles of the Catholic Faith 3. New Testaments & Acts of the Apostles 4. Sacraments 5. Catholic Church History 6. Morality/Justice, and Peace 7. Christian Lifestyles/Sexuality 8. World Religions	
Additional Graduation Requirements	credits vary	<ul style="list-style-type: none"> • Physical Education (two courses at 0.25 credits each) or PE Waiver <i>(See handbook)</i> • Health (0.5 credit) • Speech Communications (0.5 credit) <i>Beginning with the class of 2028</i> • Financial Literacy (0.5 credit) • 1 credit of a Fine Art • 2.5 credits of Elective Courses <i>(Can be pre-approved CCP course(s))</i> 	

In the event that a student is unable to fulfill one of the course requirements (i.e. due to a master scheduling conflict), he/she may qualify for an alternate course option with administrative and counselor pre-approval.

LATIN HONORS

Beginning with the class of 2026, Cardinal Mooney High School will recognize students' outstanding academic achievement through the following Latin Honors distinctions at graduation. This honor is based on each student's final cumulative GPA at the end of the first semester senior year.

To receive this recognition, students must successfully meet all graduation requirements and maintain their cumulative GPA through the completion of the 2nd semester senior year.

A student's GPA will not be rounded.

Students who transfer to Cardinal Mooney High School remain eligible for Latin Honors recognition at graduation. The Latin Honors distinction will be determined based on their cumulative GPA, which includes coursework completed at any previous school(s) combined with their Cardinal Mooney GPA.

Latin Distinction	GPA Point Range Awarded
Cum Laude	3.75 - 3.999
Magna Cum Laude	4.00 - 4.249
Summa Cum Laude	4.25 and above

ACADEMIC PROGRAMS

In addition to our college preparatory curriculum, Cardinal Mooney offers three unique and specialized academic programs that empower students to pursue career-focused programming. Each program has prerequisites that must be met to continue taking courses. Students who successfully complete all courses in their chosen program will receive special recognition at graduation.

BIOMEDICAL

Biomedical Science applies real-world issues by exploring topics like disease, DNA analysis, medical terminology, microbiology, epidemiology, public health, and more. Along the way, students gain experience with techniques that are used by professionals in hospitals and labs every day. They will also explore the prevention, diagnosis and treatment of disease working collaboratively to investigate and design innovative solutions for the health challenges of the 21st century. For course descriptions and prereqs, see page 51.

The program courses are offered to interested and qualified students and must be taken in the order listed:

Junior Year:

1. Principles of the Biomedical Sciences
2. Microbiology

Senior Year:

3. Epidemiology
4. Capstone: Biomedical Innovation

ENGINEERING

Throughout this program, students will step into the varied roles engineers play in our society, discover new career paths and possibilities, and develop engineering knowledge and skills. In addition, as students work in teams to design and test solutions, they're empowered to develop in-demand, 21st century skills like collaboration, critical thinking, and communication. Students will need to have at least Algebra 2 to be qualified to participate in the program. For more details about each course, see page 30.

The following courses will be offered each semester for interested juniors and seniors:

Junior Year:

1. Engineering Essentials: Exploring Careers
2. Introduction to Engineering Design

Senior Year:

3. Engineering 2: Electrical Electronics
4. Capstone: Mechanical Engineering

STUDIO ART

With an emphasis on studio arts, students explore a wide range of 2D and 3D media, skills and techniques, as related to contemporary and historical art perspectives. Projects may include but not be limited to: drawing, painting, collage, mixed media, photography and sculpture. For course descriptions, see pages 22-23.

The following courses are required for the Studio Art Program in order listed beginning freshman year:

1. Studio Art I
2. Studio Art II
3. Studio Art III (Honors)
4. Studio Art IV (Honors)

4-Year Course Pathways

Each student has unique needs based on their academic strengths and weaknesses, likes and dislikes, and future aspirations which is why high school course selections should be personalized for each student. That's why Cardinal Mooney's counselors speak with students one on one when planning out schedules and course selections. However, we realize that sometimes parents and students would like to see examples of 4-year academic plans to get an idea of what their student may want to do.

All course pathways are based on meeting the minimum graduation requirements, but each student's choices can be customized based on the student's final grades in prerequisite courses, the student's interest, and the student's future plans.

Note: The pathways do not list enough courses to fulfill the entire number of courses necessary each year for students to maintain a full schedule. Students are required to take at least 7 or 8 credit hours depending on if they choose to have a study hall. To fill a schedule (beyond the requirements listed on the pathways) students will choose from a wide variety of elective courses. Counselors will assist students in the scheduling process to ensure that they have the correct number of credits each semester.

Detailed course pathways are listed on the following pages.

Pathway	What student might follow this path?	Extra Information
Valedictorian / Salutatorian Eligibility	Any student who wants to be eligible to be named Valedictorian or Salutatorian must meet specific course requirements on top of other criteria.	Following this pathway does not guarantee a student will be named Valedictorian or Salutatorian. Be sure to read the course handbook for the complete list of criteria and more details on pages 7-8 of this handbook.
Honors and AP Courses	Students who have: <ul style="list-style-type: none"> • High academic aspirations and skills • Want to apply to highly selective colleges and/or college programs • Plan to go into a highly competitive career field 	Students do not have to take every Honors/AP course listed on the pathway and can choose to take only the Honors/AP courses that they are most interested in.
College Prep Course Pathway: Tier 1	Students who: <ul style="list-style-type: none"> • Plan to go to college after high school, but do not plan to apply to highly selective schools or highly competitive programs. • Want to go to a trade school or the military. • Do not have the placement test scores needed to be enrolled in honors/AP courses. 	
College Prep Course Pathway: Tier 2	Students who: <ul style="list-style-type: none"> • Have stronger math and/or language skills • Want to apply to schools that require additional math or language courses • Meet the prerequisites to take higher college prep math and/or language courses 	
College Prep Course Pathway: Tier 3	Students who: <ul style="list-style-type: none"> • Want to take additional college prep academic courses to be more competitive when applying to more selective colleges and programs (especially STEM related fields) • Want to be eligible to earn the Ohio Honors Diploma. 	This pathway also allows students to meet the additional academic course requirements set by the State of Ohio to earn an Honors Diploma. There are additional criteria for the Honors Diploma.

This handbook outlines course descriptions, course prerequisites, graduation requirements, elective options, and additional course requirements.

Valedictorian / Salutatorian Course Pathway

There are specific requirements for students to be eligible to be named Valedictorian or Salutatorian. Following this pathway does not guarantee a student will be named Valedictorian or Salutatorian. Be sure to read the course handbook for more details.

	Minimum Val/Sal Requirements <i>(Includes standard graduation requirements)</i>	Freshman Year	Sophomore Year	Junior Year	Senior Year
English	4 credits of Advanced English	Honors English 9	AP Seminar <i>(Honors English 10 for the class of 2027)</i>	AP English Language & Composition	AP English Literature & Composition
Math	4-5 credits of Math including AP Calculus <i>(Algebra I may be completed in 8th grade - See handbook for details)</i>	Honors Algebra I and/or Honors Geometry	Honors Geometry and/or Honors Algebra II & Trigonometry	AP Pre-Calculus	AP Calculus
Science	4 credits of Science including: <ul style="list-style-type: none"> Honors Biology Honors Chemistry Plus 2 Additional Upper Level Science courses (1 of the courses must be an AP)	Honors Biology	Honors Chemistry	<i>Choose at least 2 of the following (at least 1 must be an AP):</i> AP Biology AP Chemistry AP Physics Anatomy and Physiology BioMedical Program (4 courses 0.5 credits each)	
World Language	3 consecutive years of one World Language required. 4 credits Recommended	Italian I or Spanish I	Italian II or Spanish II	Honors Italian III or Honors Spanish III	AP Italian Language and Culture or AP Spanish Language and Culture
Social Studies	Social Studies Requirements + 1 Additional credit of Social Studies	<i>Required</i> Honors Modern World History	<i>Optional</i> AP Human Geography	<i>Required</i> AP United States History	<i>Required</i> AP U.S. Government & Politics
Theology	All Required <i>(0.5 credits each)</i>	Old Testament + Principles of the Catholic Faith	New Testaments & Acts of the Apostles + Sacraments	Catholic Church History + Morality/Justice, and Peace	Christian Lifestyles/Sexuality + World Religions
Fine Arts	All students need two half credits or one full credit of a course that is classified as a fine art. See the course handbook for courses that fulfill this requirement.				
Additional Courses	All Required <i>(0.5 credits each unless noted)</i>	0.5 credits of PE at 0.25 credits each or PE Waiver	Health + Speech Communications <i>(effective class of 2028)</i>		Financial Literacy
Electives	2.5 Elective credits Required	Students are encouraged to choose electives that coincide with their interests and future career plans.			

Honors/AP Course Pathway Option

	Minimum Graduation Requirements	Ohio Honors Diploma Requirements	Freshman Year	Sophomore Year	Junior Year	Senior Year
English	4 credits of English		Honors English 9	AP Seminar (<i>beginning with the class of 2028</i>)	AP English Language and Composition	AP English Literature and Composition
Math	4 credits of Math	4 credits of Math including one course above Algebra II	Honors Algebra I and/or Honors Geometry	Honors Geometry and/or Honors Algebra II & Trigonometry	AP Pre-Calculus	AP Calculus
Science	3 credits of Science including: <ul style="list-style-type: none"> • 1 Physical Science course • Biology • 1 upper level science 	One additional upper level science course	Honors Biology	Honors Chemistry	Choose at least one upper level science each year (at least one AP suggested): <ul style="list-style-type: none"> • AP Biology • AP Chemistry • AP Physics • Anatomy and Physiology • BioMedical Program Courses (4 courses 0.5 credits each) 	
World Language	2 consecutive years of one World Language	3 consecutive years of one World Language	Italian I or Spanish I	Italian II or Spanish II	Honors Italian III or Honors Spanish III	AP Italian Language & Culture or AP Spanish Language & Culture
Social Studies	Modern World History (1 credit) US History (1 credit) Government (0.5 credits)	One additional credit of Social Studies	Honors Modern World History	AP Human Geography <i>Suggested</i>	AP United States History	AP U.S. Government and Politics + AP <i>Psychology suggested</i>
Theology	All Required (0.5 credits each)		Old Testament + Principles of the Catholic Faith	New Testaments and Acts of the Apostles + Sacraments	Catholic Church History + Morality/Justice, and Peace	Christian Lifestyles/Sexuality + World Religions
Fine Arts	1 credit	All students need two half credits or one full credit of a course that is classified as a fine art. See the course handbook for courses that fulfill this requirement.				
Additional	All Required (0.5 credits each unless noted)	0.5 credits of PE at 0.25 credits each or PE Waiver		Health + Speech Communications (<i>effective class of 2028</i>)		Financial Literacy
Electives	2.5 credits Required	Students are encouraged to choose electives that coincide with their interests and future career plans.				

All course pathways are based on graduation requirements, but will be customized based on the student's final grades in prerequisite courses, the student's interest, and the student's future plans. This pathway (with additional customization based on interests) is highly suggested for those students who plan to apply to highly selective, elite colleges that are very competitive. Check the course handbook for course descriptions, prerequisites, and additional requirements. School Counselors help students each year with their course selection.

College Prep Course Pathway Tier 1

	Minimum Graduation Requirements	Freshman Year	Sophomore Year	Junior Year	Senior Year
English	4 credits of English	English 9	English 10	English 11	English 12
Math	4 credits of Math	Algebra I	Geometry	Algebra II	College Algebra
Science	3 credits of Science including: One Physical Science, Biology, and one upper level science	Physical Science	Biology	Choose one credit of an upper level science (prerequisites apply): <ul style="list-style-type: none"> • Chemistry • Earth Science • Anatomy and Physiology • BioMedical Program Courses (4 courses 0.5 credits each) 	
World Language	2 consecutive years of one World Language	Italian I or Spanish I	Italian II or Spanish II		
Social Studies	Modern World History (1 credit) US History (1 credit) Government (0.5 credits)	Modern World History		United States History	Government
Theology	All Required (0.5 credits each)	Old Testament + Principles of the Catholic Faith	New Testaments & Acts of the Apostles + Sacraments	Catholic Church History + Morality/Justice, and Peace	Christian Lifestyles/Sexuality + World Religions
Fine Arts	All students need two half credits or one full credit of a course that is classified as a fine art. See the course handbook for courses that fulfill this requirement.				
Additional requirements	All Required (0.5 credits each unless noted)	0.5 credits of PE at 0.25 credits each or PE Waiver	Health + Speech Communications (effective class of 2028)		Financial Literacy
Electives	2.5 credits Required	Students are encouraged to choose electives that coincide with their interests and future career plans.			

* Prerequisite required

All course pathways are based on meeting minimum graduation requirements, but will be customized based on success in prerequisites, the student's interest, and the student's future plans. Check the course handbook for course descriptions, prerequisites, and additional requirements. School Counselors help students each year with their course selection.

College Prep Course Pathway Tier 2

(Higher Level Math Courses + Additional Language Courses)

	Minimum Graduation Requirements	Freshman Year	Sophomore Year	Junior Year	Senior Year
English	4 credits of English	English 9	English 10	English 11	English 12
Math	4 credits of Math	Algebra I	Geometry	Algebra II & Trigonometry*	Pre-Calculus*
Science	3 credits of Science including: One Physical Science, Biology, and one upper level science	Physical Science	Biology	Choose at least one credit of an upper level science (prerequisites apply): <ul style="list-style-type: none"> • Chemistry • Earth Science • Anatomy and Physiology • BioMedical Program Courses (4 courses 0.5 credits each) 	
World Language	2 consecutive years of one World Language	Italian I or Spanish I	Italian II or Spanish II	Honors Italian III* or Honors Spanish III*	
Social Studies	Modern World History (1 credit) US History (1 credit) Government (0.5 credits)	Modern World History		United States History	Government
Theology	All Required (0.5 credits each)	Old Testament + Principles of the Catholic Faith	New Testaments and Acts of the Apostles + Sacraments	Catholic Church History + Morality/Justice, and Peace	Christian Lifestyles/Sexuality + World Religions
Fine Arts	All students need two half credits or one full credit of a course that is classified as a fine art. See the course handbook for courses that fulfill this requirement.				
Additional requirements	All Required (0.5 credits each unless noted)	0.5 credits of PE at 0.25 credits each or PE Waiver	Health + Speech Communications (effective class of 2028)		Financial Literacy
Electives	2.5 credits Required	Students are encouraged to choose electives that coincide with their interests and future career plans.			

* Prerequisite

All course pathways are based on graduation requirements, but will be customized based on success in prerequisites, the student's interest, and the student's future plans. Check the course handbook for course descriptions, prerequisites, and additional requirements. School Counselors help students each year with their course selection.

College Prep Course Pathway Tier 3

(Possible path to earn the Honors Diploma courses)

	Minimum Graduation Requirements	Ohio Honors Diploma Requirements	Freshman Year	Sophomore Year	Junior Year	Senior Year
English	4 credits of English		English 9	English 10	English 11	English 12
Math	4 credits of Math	4 credits of Math must include 1 level beyond Algebra II	Algebra I	Geometry + Algebra II & Trigonometry*	Pre-Calculus*	Calculus
Science	3 credits of Science including: One Physical Science Biology One upper level science	3 credits of Science including: One Physical Science Biology TWO upper level science	Physical Science	Biology	Choose two credits of upper level sciences (prerequisites apply): <ul style="list-style-type: none"> • Chemistry • Earth Science • Anatomy and Physiology • BioMedical Program Courses (4 courses 0.5 credits each) 	
World Language	2 consecutive years of one World Language	3 consecutive years of one World Language	Italian I or Spanish I	Italian II or Spanish II	Honors Italian III* or Honors Spanish III*	
Social Studies	Modern World History (1 credit) US History (1 credit) Government (0.5 credit)	One credit of Social Studies in addition to the required Social Studies courses.	Modern World History	Social Studies Elective	United States History	Government + Social Studies Elective
Theology	All Required (0.5 credits each)		Old Testament + Principles of the Catholic Faith	New Testaments and Acts of the Apostles + Sacraments	Catholic Church History + Morality/Justice, and Peace	Christian Lifestyles/Sexuality + World Religions
Fine Arts	All students need two half credits or one full credit of a course that is classified as a fine art. See the course handbook for courses that fulfill this requirement.					
Additional requirements	All Required (0.5 credits each unless noted)		0.5 credits of PE at 0.25 credits each or PE Waiver	Health + Speech Communications (effective class of 2028)		Financial Literacy
Electives	2.5 credits Required		Students are encouraged to choose electives that coincide with their interests and future career plans.			

* Prerequisite

Following these courses does not guarantee a student will earn an Honors Diploma. Additional requirements apply. All course pathways are based on graduation requirements, but will be customized based on success in prerequisites, the student's interest, and the student's future plans.

Check the course handbook for course descriptions, prerequisites, and additional requirements. School Counselors help students each year with their course selection.

Side by Side Course Requirement Comparison: *Graduation Requirements, Honors Diploma, and Val/Sal*

	CMHS Minimum Graduation Requirements	Ohio Honors Diploma Course Requirements	Valedictorian / Salutatorian Minimum Course Requirements
English	4 credits of English	4 credits of English	4 credits of English Advanced English Courses including: 1. Honors English 9 2. AP Seminar (class of 2028) 3. AP English Language and Composition 4. AP English Literature and Composition
Math	4 credits of Math	4 credits of Math must include one Math class beyond Algebra II	4-5 credits of Advanced Math courses including AP Calculus
Science	3 credits of Science including: 1. A Physical Science 2. Biology 3. One Upper Level Science Course	3 credits of Science including: 1. A Physical Science 2. Biology 3. One Upper Level Science Course + One additional upper level science course for a total of 4 science credits.	4 credits of Science including: 1. Honors Biology 2. Honors Chemistry 3. One Upper Level Science Course + 1 Additional Upper Level Science course <i>Note: At least 1 of the Upper Level Science Courses must be an AP course.</i>
World Language	2 consecutive years of one World Language	3 consecutive years of one World Language	3 consecutive years of one World Language (4 credits recommended)
Social Studies	1. Modern World History 2. US History 3. Government	1. Modern World History 2. US History 3. Government + One additional Social Studies Elective credit	1. Honors Modern World History 2. AP United States History 3. AP United States Government + One additional Social Studies Elective credit
Theology	All Required - See the handbook for the complete course list.		
Fine Arts	Required - two half credits or one full credit of a course that is classified as a fine art. See the course handbook for courses that fulfill this requirement.		
Additional requirements (0.5 credits each unless noted)	Physical Education or Physical Education Waiver (0.5 total credits - course is 0.25 credits each) Health Speech Communications (course begins with the class of 2028) Financial Literacy		
Electives	2.5 credits required - Students are encouraged to choose electives that coincide with their interests and future career plans. Electives courses can be a pre-approved CCP course. See the handbook for more about CCP participation and rules.		

NCAA Eligibility Requirements

Any student who plans to play sports in college will have to fulfill certain course requirements in high school per NCAA in order to be eligible to participate in D1 or D2 college athletics.

For all NCAA academic requirements, rules, and regulations, visit their website

http://fs.ncaa.org/Docs/eligibility_center/Student_Resources/CBSA.pdf and speak to your school counselor.

CARDINAL MOONEY APPROVED NCAA COURSES

English	Social Studies	Mathematics	Science	World Language, Comparative Religion, Philosophy
AP English Literature and Composition	American Government	Algebra I	Anatomy/Physiology	Italian I
AP English Language and Composition	Ancient World History	Algebra II	AP Biology	Italian II
AP Seminar	AP United States Government and Politics	Algebra II & Trigonometry	AP Chemistry	Honors Italian III
Creative Writing	AP United States History	AP Calculus A/B	AP Computer Science	AP Italian Language and Culture
Debate	AP Psychology	AP Precalculus	AP Physics	Spanish I
English 9	AP Human Geography	AP Computer Science	Biology	Spanish II
Honors English 9	Law In Action	Calculus	Chemistry	Honors Spanish III
English 10	Modern World History	College Algebra	Earth Science	AP Spanish Language and Culture
English 11	Honors Modern World History	Geometry	Engineering Essentials Exploring Career	World Religions
English 12	Psychology	Honors Algebra I	Environmental Science	
Newspaper	Sociology	Honors Algebra II & Trigonometry	Forensics Science	
	US History	Honors Geometry	Honors Biology	
	World Geography	Pre-Calculus	Honors Chemistry	
			Introduction To Engineering Design	
			Physical Science	
			Physics	
			Principles of Biomedical Science	

ART DEPARTMENT

Graduation Requirement: 1 credit of a course that qualifies as a Fine Art.

All courses in the Art Department are classified as a fine art credit; however, other courses outside of the Art Department also meet the fine art requirement.

COLOR AND DESIGN (1010)

The color and design course is a beginning art course that will introduce students to the basics of two dimensional design and color theory. Incorporating the elements and principles of art and design as it relates to past and present. Everything from the houses we live in, the cars we drive to the pencils we hold.

Students will need to purchase some supplies for this course.

Credit	Grades	Prerequisite	GPA Scale
0.5	9, 10, 11	None	4.0 scale

STUDIO ART I (AR1013)

Studio Art I is intended to be the beginning level art class that will introduce students to a variety of art experiences. Students will have the opportunity to creatively solve visual problems through a variety of 2 and 3 dimensional media using basic art techniques. Students will participate in written and oral critiques, visit art museums, write art reports and have tests. Studio Art I is the foundational class to build a better understanding and skill set for future art classes. Some supplies are needed for this class. This course is the first in the Studio Art program.

Credit	Grades	Prerequisite	GPA Scale
1	9, 10, 11, 12	None	4.0 scale

STUDIO ART II (AR1014)

Studio Art II students will further develop and explore media from the Studio Art I class and will also add a few new processes to advance their basic skill set. The design elements and principles will continue to be stressed when developing student works. Students will continue to refine traditional and expressive techniques using 2 and 3 dimensional art forms while engaging in higher order visual problem solving. Students will engage in discussions about aesthetics, criticism and art history. Students will be required to visit local art museums and reflect on their experiences through writing, visual recreations, and discussion about their experiences. A visual journal is required and there will be a final portfolio critique. This course is the second in the Studio Art program.

Students will need to purchase supplies for this course.

Credit	Grades	Prerequisite	GPA Scale
1	10, 11, 12	B or higher in Studio Art I and Teacher recommendation	4.0 scale

HONORS STUDIO ART III (AR1015)

Studio Art III is a comprehensive, lightly guided art course that asks students to get further involved with the concepts, processes, media choices and ideas behind their works. Students at this level, will be called upon to be more independently driven. Projects ask for more in depth creative solutions to more involved and in depth solutions to visual problems. A further refinement to skill level with more opportunities to explore media potential. Students will engage in written and verbal reviews, journaling (written and visual), A final portfolio with critique is part of this class. This course is the third in the Studio Art program.

Students will need to purchase supplies for this course.

Credit	Grades	Prerequisite	GPA Scale
1	11, 12	B or higher in Studio Art II and Teacher recommendation	5.0 scale

HONORS STUDIO ART IV (AR1016)

Studio Art IV is a comprehensive, partially guided art course that asks students to explore in a more in depth manner the concepts, processes, media choices and ideas behind their works. Talented students at this honors level, will be called upon to be more independently driven, developing a strong work ethic in a studio setting in a cooperative environment. The focus of this course is to create a portfolio of work in varied media, both two dimensionally and/or three dimensionally. This cohesive collection will represent the individual student's artistic and technical skill and personal creative expression. A further refinement to skill level with more opportunities to explore media potential. Students will engage in written and verbal reviews, journaling (written and visual), A final portfolio and exhibit with critique is part of this class. This is the last course in the four-year Studio Art program.

Students will need to purchase supplies for this course.

Credit	Grades	Prerequisite	GPA Scale
1	12	B or higher in Honors Studio Art III and Teacher recommendation	5.0 scale

PORTFOLIO (AR1032)

Independent study class that is meant for a more focused, serious self motivated student that would like to pursue a specific direction with their creative efforts. Specific requirements will be established between teacher and student. Research, journal (written and visual) critiques and portfolio review are all a part of this course. This course may be repeated.

Students will need to purchase supplies for this course.

Credit	Grades	Prerequisite	GPA Scale
0.5	10, 11, 12	B or higher in Studio Art II and Teacher recommendation	4.0 scale

CERAMICS 1 (AR1011)

This course is a basic course in methods of hand built functional and sculptural ceramics, including pinch, slab, and coil techniques. Students will also need basic art skills to help to visualize and convey ideas through sketches and have a basic understanding of color theory. Students will have the opportunity to familiarize themselves with a variety of ceramic tools and glaze effects. The students will be able to identify, discuss and appreciate pottery from several different periods and cultures. Strong work ethic and some supplies are needed.

Students will need to purchase supplies for this course.

Credit	Grades	Prerequisite	GPA Scale
0.5	10, 11, 12	B or higher in Studio Art I and Teacher recommendation	4.0 scale

CERAMICS 2 (AR1020)

This course is a further development and application of the basic skills developed in ceramics 1. Students will also need basic art skills to help to visualize and convey ideas through sketches and have a basic understanding of color theory. Students will be called upon to extend the ceramics 1 experience to creating more sculptural pieces as well as the practical ceramic pieces. The students will continue to identify, discuss and appreciate pottery from several different periods and cultures and incorporate that into their own work. Strong work ethic and some supplies are needed.

Students will need to purchase supplies for this course.

Credit	Grades	Prerequisite	GPA Scale
0.5	11, 12	B or higher in Ceramics 1 and Teacher recommendation	4.0 scale

DRAWING (AR1040)

Drawing is a mid-level course designed to explore drawing techniques and visual concepts. It will also help to develop expression and discipline in drawing with emphasis on materials. Students will create a variety of drawings ranging from object rendering, still life, landscapes and portraits. Students will also have the opportunity to apply these to ideas in surreal/fantasy, realism, expressionism and abstraction. Students will be required to keep a sketchbook to further develop skills in close observation, discipline, and visual sensitivity. A continued development in understanding and using the design elements and principles of art will also be a major part of the course.

Students will need to purchase supplies for this course.

Credit	Grades	Prerequisite	GPA Scale
0.5	10, 11, 12	B or better in Studio Art I and Teacher recommendation	4.0 scale

PAINTING (AR1041)

Painting is an advanced level course designed to explore painting techniques and visual concepts. Students will be introduced to the various painting media including watercolor, acrylic and oil. Students will focus on sound fundamentals, content, and personal expression. A variety of subject matter and art concepts will be covered to further explore the different painting media. Students will be required to keep a sketchbook to further develop skills in close observation, discipline, and visual sensitivity. A continued development in understanding and using the design elements and principles of art will also be a major part of the course.

Students will need to purchase supplies for this course.

Credit	Grades	Prerequisite	GPA Scale
0.5	10, 11, 12	B or higher in Studio Art II and Teacher recommendation	4.0 scale

ADVANCED PLACEMENT ART AND DESIGN COURSES

Advanced Placement 2-D (AR1031)

Advanced Placement 3-D (AR1034)

Advanced Placement DRAWING (AR1035)

The AP Art and Design program consists of three different courses and AP Portfolio Exams—AP 2-D Art and Design, AP 3-D Art and Design, and AP Drawing—corresponding to college and university foundations courses. Students may choose to submit any or all of the AP Portfolio Exams.

Students create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas over the course of a year. Portfolios include works of art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions.

Students are **required to fulfill the College Board requirements for this course** at the end of the school year. The fee for taking the AP exam is the responsibility of each student. Fee reductions are available for those who qualify.

Students will need to purchase supplies for this course.

Credit	Grades	Prerequisite	GPA Scale
1 each	11, 12	B or higher in Studio Art II, Painting, Portfolio, Honors Portfolio AND a teacher recommendation.	5.0 scale

PHOTOGRAPHY I (AR1101)

This course explores darkroom and 35mm camera fundamentals, focusing on the technical and the visual design relating to the black and white photograph as an expressive art form. Selected technical and aesthetic photographic problems will enrich the students' abilities and knowledge of photography as they develop their own film and prints, and strengthen their critical thinking skills.. Students will be introduced to the history of photography and famous photographers, and research works by such. Students will create artist statements and be able to analyze images critically and aesthetically. Students will have a portfolio of work at the end of the calls. Students may use their own 35mm camera or one will be provided. Film, chemistry, and paper are provided. Class size is limited.

Credit	Grades	Prerequisite	GPA Scale
0.5	10, 11, 12	None	4.0 scale

PHOTOGRAPHY II (AR1105)

Further explore the magic of the darkroom, focusing on the practical and expressive forms of black and white photography as a fine art. The class will go on location to take photos for the various projects. The student will draw upon previous technical and visual knowledge and will be introduced to a variety of toning processes, alternative negative processes, and photo papers. The student will be introduced to a "white room" technique to make high contrast digital negatives. The students will express themselves through artist statements and class critiques. Students will present their work in book form again for each project.

Students will need a 35mm film camera (or one will be provided). Film, chemistry, and paper are provided. Some supplies are needed. A great work ethic and the ability to multitask is essential. Class size is limited.

Credit	Grades	Prerequisite	GPA Scale
0.5	10, 11, 12	B or higher in Photography I and Teacher recommendation	4.0 scale

HONORS PHOTOGRAPHY III (AR1116)

Photo III is designed for students who are seriously interested in the practical and expressive experience of photography as art. Students will explore and experience a variety of concepts, techniques, and approaches designed to help demonstrate their creativity, problem solving skills and ideas. By exploring analog and digital photographic media with the camera, computer, and darkroom, students will create a body of work to develop their own styles and modes of expression. Research, journals, critique and artist statements are an integral part of the class. Students will display their work and present their final portfolio. Great work ethic and high-quality work is required. Some supplies are needed. Including a flash drive.

Credit	Grades	Prerequisite	GPA Scale
0.5	11, 12	B or higher in Photography II and/or Digital Photography II and Teacher recommendation	5.0 scale

DIGITAL PHOTOGRAPHY I (AR1107)

This course is a beginning study of digital photography. The student will draw upon previous knowledge of the dark room and explore the “white room” as well as camera fundamentals, and color. The focus will be on the visual and technical knowledge relating to photography as a fine art form. Selected technical problems and the introduction to Adobe Photoshop as well as other editing software will expand the students’ abilities and knowledge of photography. The history of the digital camera and contemporary artists will be researched in this class. Students will use their smartphones and 35mm DSLR cameras in this class. A portfolio will be virtual and in hard copy prints. A great work ethic is needed.

Students will need some supplies including a flash drive (8GB). Class size is limited.

Credit	Grades	Prerequisite	GPA Scale
0.5	10, 11, 12	B or higher in Photography I	4.0 scale

DIGITAL PHOTOGRAPHY II (AR1108)

This course is the further study of digital photography and editing. The student will draw upon previous knowledge of both the “darkroom” and the “white room” as well as camera fundamentals, focusing again on the visual and technical knowledge relating to photography as an art form. Selected new and challenging projects will expand the students’ creative abilities and knowledge of photography. Students will select a personal theme for a final project. Students will study and research works by contemporary photographers. Adobe Photoshop and other editing software will be used. Virtual and hard copy portfolios will be made. A great work ethic is required. Students will need some supplies including a flash drive (8GB). Class size is limited.

Credit	Grades	Prerequisite	GPA Scale
0.5	11, 12	B or better in Digital Photography I	4.0 scale

BUSINESS and TECHNOLOGY DEPARTMENT

MARKETING PRINCIPLES (BU2015)

This marketing course will cover basic skills for success in the marketing world. Students will develop the understanding and skills in functional areas such as customer service, marketing math, human relations, communications, economics, distribution, ethical issues, advertising management, promotion and selling. Understanding these principles will enhance their knowledge of owning their own business, pursuing business marketing or working in a business.

Credit	Grades	Prerequisite	GPA Scale
0.5	9, 10, 11, 12	None	4.0 scale

PROFESSIONAL AND BUSINESS ETIQUETTE (BS2006)

This course focuses on foundational communication techniques and strategies for student success in personal and professional environments. The topics to be explored include: Rules of Etiquette; First Impressions; Business Relationships; Digital Etiquette; Dining and Special Events Etiquette; and Cross-Cultural Etiquette Skills.

Credit	Grades	Prerequisite	GPA Scale
0.5	10, 11, 12	None	4.0 scale

CREATIVE ENTREPRENEURSHIP (BU2111)

Explores how emerging social media, information technologies, 3-D printing, and rapid prototyping are transforming career and entrepreneurial opportunities. Students will have the opportunity to create a 21st century business and marketing plan and create a prototype of a product they will create.

Credit	Grades	Prerequisite	GPA Scale
0.5	11, 12	None	4.0 scale

DIGITAL MEDIA PRODUCTION (BU2114)

Students in Media Production are part of the Cardinal Mooney media team. In this class, students will be exposed to the many aspects of digital media, video, and movie production. Along with learning to plan, shoot, edit and publish digital video projects, students will learn the technical and storytelling aspects of creating engaging digital video and media projects. *This class serves as the prerequisite for Broadcast Journalism.*

Credit	Grades	Prerequisite	GPA Scale
0.5	9, 10	None	4.0 scale

WEB DEVELOPMENT (ST9002)

Students will learn how to create and share content on web pages. They will learn how to structure and style pages using HTML and CSS. They will also learn how to use valuable programming skills such as debugging, using resources, and collaborating with their classmates.

Credit	Grades	Prerequisite	GPA Scale
0.5	9, 10, 11, 12	None	4.0 scale

ANIMATION AND GAME DESIGN (ST9003)

Students will work in Java Script to create and program animations, interactive art, and games. Students will start off with simple shapes and build up to more sophisticated sprite-based games, using the same programming concepts and the design process computer scientists use. Students will create, develop a personalized interactive program for their final project.

Credit	Grades	Prerequisite	GPA Scale
0.5	10, 11, 12	None	4.0 scale

AP COMPUTER SCIENCE PRINCIPLES (BU2118)

AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles also gives students the opportunity to use current technologies to create computational artifacts for both self-expression and problem solving. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science.

Students are **required to take the AP test** at the end of the school year. The fee for taking the AP exam is the responsibility of each student. Fee reductions are available for those who qualify.

Credit	Grades	Prerequisite	GPA Scale
1	11, 12	B or higher in Animation and Game Design with Teacher Recommendation OR A in Web Development with Teacher Recommendation	5.0 scale

BROADCAST JOURNALISM (BU2115)

Students in Broadcast Journalism can be members of a school news network and are responsible for planning, filming, editing, and broadcasting Cardinal Mooney High School's daily video news and announcements, as well as providing students, staff, parents, and members of the Mooney Family with various forms of engaging and informative media and web-based productions. Not only will students assume the role of a professional video news production team, but they will become the faces and voices of Cardinal Mooney. Students are able to take this course a second time if they earn an A in Broadcast Journalism I and have the teacher's recommendation.

Credit	Grades	Prerequisite	GPA Scale
0.5	11, 12	B or higher in Digital Media Production and teacher recommendation	4.0 scale

ENGINEERING PROGRAM

The Engineering Program is a four-course series for Juniors and Seniors who qualify and are interested. Once students successfully complete the required courses, they will have a special recognition at their graduation.

ENGINEERING ESSENTIALS: EXPLORING CAREERS (ST9023)

Students will be engaged in an inquiry problem based course that explores the many facets of engineering. Through research and conducting experiments (challenges) students will develop higher order thinking and problem solving skills, needed in the many different engineering fields today.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
0.5	11	B or higher in Algebra II or C or higher in Algebra II and Trigonometry	4.0 scale	Fulfills 0.5 of an elective if part of the engineering program.

INTRODUCTION TO ENGINEERING DESIGN (ST9024)

Students will be exposed to the iteration and the engineering design process in order to plan and conduct experiments, manage projects, solve problems and to make informed decisions so as to be able to write informative/ explanatory text to explain complex ideas of information.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
0.5	11	C or higher in Introduction to Engineering Design and teacher recommendation	4.0 scale	Fulfills 0.5 of an elective if part of the engineering program.

ENGINEERING 2: ELECTRICAL ELECTRONICS (ST9025)

Students will be introduced to Electrical/electronic phenomenon. How electrical components work in conjunction in order to create our society. This course is math and writing intensive.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
0.5	12	C or higher in the first two courses of the program and teacher recommendation to continue.	4.0 scale	Fulfills 0.5 of an elective if part of the engineering program.

CAPSTONE: MECHANICAL ENGINEERING (ST9026)

Students using iteration and the Engineering design process will develop a capstone design project First: developing a critique of a problem, need, or design innovation. Second: investigating Constraints and criteria and developing prototypes in order to achieve a viable working model.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
0.5	12	C or higher in Engineering 2: Electrical Electronics	4.0 scale	Fulfills 0.5 of an elective if part of the engineering program.

ENGLISH DEPARTMENT

The English Department at Cardinal Mooney High School prides itself on the success of its students in testing, competition, college acceptance, and publishing. Our experienced and unique staff is supportive in the efforts to refine our students' abilities to communicate ethically, exactly, and creatively. In literature we treasure the classics and highly regard contemporary works. Our curriculum continues to produce profound thinkers and writers who can visualize, analyze, and synthesize all visual and literary media. Additionally, students will also develop STEM knowledge to enhance their language proficiency and technical writing skills. This integrated approach equips them with a well-rounded skill set, fostering not only creativity and critical thinking but also proficiency in articulating complex scientific concepts through effective written communication.

Graduation Requirements: 4 credits of core English Courses

ENGLISH CORE COURSES

ENGLISH 9 (EN3005)

English 9 is a college prep course that will review grammar, usage and mechanics; develops vocabulary and critical thinking; and practices narrative, descriptive, expository, informative, and technical writing (basic research writing and strategy). Students read, study, and respond to various genres of literature like short stories, essays, novels, poetry, drama, and the epic. Students will create a résumé and develop a writing portfolio throughout the semester.

This class requires summer reading and research which will be submitted at the beginning of the school year. See the [website](#) for the list of summer reading materials.

Credit	Grades	Prerequisite	GPA Scale
1	9	None	4.0 scale

HONORS ENGLISH 9 (EN3001)

Intended for students with *advanced* language arts skills, this course begins the Honors/Advanced Placement program. Using a textbook that links grammar and writing skills, students read, study, and respond to various genres of literature like short stories, essays, non-fiction and epic selections, three plays, and five novels. Literature is linked to activities in critical thinking, language skills, vocabulary development, and formal research. Students will create résumés and develop a writing portfolio throughout the semester.

This class requires summer reading and research which will be submitted at the beginning of the school year. See the [website](#) for the list of summer reading materials.

Credit	Grades	Prerequisite	GPA Scale
1	9	Based on HSPT test results and 8th grade Language Arts grade	5.0 scale

ENGLISH 10 (EN3105)

Exploring the masterpieces of world literature, students are introduced to myths, legends, short stories, poetry, drama, non-fiction, and supplementary novels representative of world cultures. English 10, in addition, continues the study of grammar, vocabulary, and the MLA format applied to the writing and research process. Students will revise their résumés and add samples to their writing portfolios.

This class requires summer reading and research which will be submitted at the beginning of the school year. See the [website](#) for the list of summer reading materials.

Credit	Grades	Prerequisite	GPA Scale
1	10	Passing grade in English 9	4.0 scale

ADVANCED PLACEMENT SEMINAR

Ever thought about how social media impacts teen mental health? Do you think rules around college sports should be changed? In AP Seminar, you choose what real-world or academic topics to investigate. AP Seminar teaches you how to find and use evidence from experts, and how to present the case from your own perspective effectively, both through writing and multimedia presentations.

Skills Students will learn:

- Reading and analyzing articles, studies, and other texts
- Gathering and combining information from sources
- Viewing an issue from multiple perspectives
- Crafting arguments based on evidence

This course is the 10th grade advanced English course and will satisfy the 10th grade English graduation requirement.

Students are **required to take the AP test** at the end of the school year. The fee for taking the AP exam is the responsibility of each student. Fee reductions are available for those who qualify.

This class requires summer reading and research which will be submitted at the beginning of the school year. See the [website](#) for the list of summer reading materials.

Credit	Grades	Prerequisite	GPA Scale
1	10	B or higher in Honors English 9 OR A in English 9 and Teacher Recommendation	5.0 scale

ENGLISH 11 (EN3204)

English 11 is a college prep course that studies American writings (essays, poetry, plays, speeches, histories, diaries, short stories, and four American novels) from Colonial times to the 21st Century. Students learn and use context vocabulary from their American Literature text in addition to a separate text for vocabulary advancement. This course allows students to improve their language skills by applying grammar lessons and pre-writing techniques to persuasive, expository, narrative, and descriptive writing. The formal MLA research process (now fully developed) is reflected in a research paper of substantial length and quality. Students will update information to a prepared résumé and add writing samples/projects to their writing portfolios.

This class requires summer reading and research which will be submitted at the beginning of the school year. See the [website](#) for the list of summer reading materials.

Credit	Grades	Prerequisite	GPA Scale
1	11	Passing grade in English 10	4.0 scale

ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION (EN3201)

In AP English Language and Composition, you'll read nonfiction texts through the eyes of a writer, exploring the choices writers and speakers make to persuade their audience. By analyzing how writing is composed, you'll be able to construct your own persuasive pieces.

Skills students will learn:

- Reading closely, analyzing, and interpreting a piece of writing
- Evaluating a source of information
- Gathering and consolidating information from different sources
- Writing an evidence-based argument
- Drafting and revising a piece of writing

Beginning with the class of 2027, this course replaces Honors English 11 and will be the 11th grade advanced English course. It can satisfy the 3rd credit of English toward graduation requirements.

Students are **required to take the AP test** at the end of the school year. The fee for taking the AP exam is the responsibility of each student. Fee reductions are available for those who qualify.

This class requires summer reading and research which will be submitted at the beginning of the school year. See the [website](#) for the list of summer reading materials.

Credit	Grades	Prerequisite	GPA Scale
1	11	B or higher in AP Seminar (<i>Honors English 10 for the class of 2027</i>) and Honors English 9 Teacher recommendation	5.0 scale

ENGLISH 12 (EN3304)

This college prep course focuses on the masterpieces of British literature from the *Beowulf* poet to modern writers. Students write extended compositions and formal MLA style research paper(s). Continued development of vocabulary usage, critical thinking skills, and the ever-changing nature of the English language are also course objectives. Students will compile a final writing portfolio and résumé.

This class requires summer reading and research which will be submitted at the beginning of the school year. See the [website](#) for the list of summer reading materials.

Credit	Grades	Prerequisite	GPA Scale
1	12	Passing grade in English 11	4.0 scale

ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION (EN3303)

Students who have superior skills in reading, vocabulary, literary analysis, and writing are eligible for this class. The course will survey major American authors, various works of literature, and major British and world authors. Students review literary terms/devices and concepts through intensive reading and writing. Continued development of vocabulary usage, critical thinking skills, and the ever-changing nature of the English language are also course objectives. Major research projects cover MLA, APA and CMS styles, and/or the Annotated Bibliography. Group projects that incorporate rhetorical devices and presentations complement this challenging course. The personal résumé is finalized and the Senior Writing Portfolio completed. Writing and/or participation in academic literary competitions is strongly encouraged.

This course is the 12th grade advanced English course and satisfies the 12th grade English graduation requirement.

Students are **required to take the AP test** at the end of the school year. The fee for taking the AP exam is the responsibility of each student. Fee reductions are available for those who qualify.

Extensive [summer reading](#) and preparation are mandatory and accountable at the start of the course.

Credit	Grades	Prerequisite	GPA Scale
1	12	B or higher in AP Seminar, AP English Language and Composition, and teacher recommendation	5.0 scale

SPEECH COMMUNICATIONS

The Speech Communications course is a graduation requirement for all sophomores, designed to equip students with the skills needed to communicate effectively in a variety of settings. Through a combination of formal speeches, interactive activities, and real-world applications, students will develop confidence in their speaking and communication abilities.

By the end of the course, students will:

- Learn to research, organize, and deliver formal speeches, including informative and argumentative presentations.
- Develop skills in verbal and nonverbal communication, including tone, body language, and eye contact.
- Practice active listening and critical thinking to engage in meaningful discussions and debates.

- Explore interpersonal and group communication, including teamwork, conflict resolution, and leadership.
- Gain experience with digital and media-based communication, such as video presentations and professional email etiquette.
- Build confidence in impromptu speaking and adapting messages for different audiences.

This course provides students with essential communication skills that will benefit them in academic, professional, and social settings throughout their lives.

Credit	Grades	Prerequisite	GPA Scale
0.5	10	None - This is a required course for all sophomores.	4.0 scale

ENGLISH ELECTIVE COURSES

CREATIVE WRITING (EN3403)

"I hate to write!" If you've ever felt this way, our innovative writing course hopefully will alter your opinion. Creative writing consists of writing in all of its forms, such as short story and poetry, satiric and farcical writing, as well as journalistic/investigative writing, commercial and script writing, and various other projects. This class cannot be counted as a Fine Arts elective.

Credit	Grades	Prerequisite	GPA Scale
0.5	10, 11, 12	At least a C or higher in previous English courses	4.0 scale

DRAMA I (EN3404)

Drama has great fun in store for you with instruction in vocalization, interpretation, acting, directing, and staging. And while building those creative skills, you will also study drama techniques and styles from the ancient Greeks to the modern playwrights.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
0.5	9, 10, 11, 12	None	4.0 scale	This course can satisfy 0.5 credits toward the fine art credit requirement.

DRAMA II (EN3412)

In Drama II, students will be able to continue their exploration into the world of Dramatic Theater. This course encompasses an in-depth study of technical aspects, including design, lighting, makeup, and costumes. Additionally, students will examine the interconnectedness of theater with society and explore the history of dramatic theater. By building upon their existing knowledge from Drama I, students will improve their creativity, as well as refine their speaking, listening, and critical thinking skills.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
0.5	10, 11, 12	B or higher in Drama I	4.0 scale	This course can satisfy 0.5 credits toward the fine art credit requirement.

DEBATE (EN3413)

Calling all arguers, dissenters, know-it-alls, non-conformists, and rebels! This class provides a significant training ground for students who enjoy the clash of ideas! From persuasive speaking to informal debate; from student congress to public forum debate, students will learn and engage in the skills of research, persuasion, case strategy, rebuttal, and presentation. If time permits, Moot Court/Mock Trial will be enacted by student “perpetrators,” “victims,” attorneys, jury members, judges, and reporters.

Credit	Grades	Prerequisite	GPA Scale
0.5	10, 11, 12	C or higher in prior English courses	4.0 scale

NEWSPAPER (EN3420)

This course is intended for students wanting to continue their education within the field of journalism. In this hands-on class, students will apply research, writing, editing, and layout abilities to showcase their skills as journalists. As a newspaper staff, students will create and design a professional student publication. Students who are interested will need to submit a writing sample to be considered for the newspaper.

Credit	Grades	Prerequisite	GPA Scale
0.5	10, 11, 12	B or higher in English courses	4.0 scale

STUDY SKILLS (EN3408)

The Study Skills course is designed to help freshmen develop the essential academic habits needed for high school success. Through interactive lessons and practical application, students will learn how to manage their time effectively, stay organized, and approach studying with confidence. By the end of the course, students will:

- Develop time management skills, including how to prioritize tasks and create effective study schedules.
- Learn organization strategies for note-taking, keeping track of assignments, and maintaining a structured approach to coursework.
- Explore different learning styles and discover study techniques that best suit their individual needs.
- Improve reading comprehension and active listening skills to enhance their ability to absorb and retain information.
- Practice critical thinking and problem-solving strategies to approach assignments and tests with confidence.
- Learn test-taking strategies to reduce anxiety and improve performance on quizzes, exams, and standardized tests.
- Develop goal-setting and self-motivation techniques to stay on track academically throughout high school.

This course provides students with the foundation to become independent learners setting them up for long-term success in high school and beyond.

Credit	Grades	Prerequisite	GPA Scale
0.5	9	Based on grades and HSPT scores	4.0 scale

HEALTH AND PHYSICAL EDUCATION DEPARTMENT

Graduation Requirement:

0.5 credit of Health

0.5 credit of Physical Education (0.25 credits each)

Beginning in 2025, students will be required to purchase and wear the official Cardinal Mooney gym uniform in any PE class. Uniforms can be purchased through the Cardinal's Nest beginning the summer of 2025.

PHYSICAL EDUCATION I and II (HP4001)

Physical Education I involves the development of basic motor skills in team and individual sports, and the development of overall strength and cardiovascular endurance, flexibility, coordination and poise. Emphasis is placed on the value of teamwork, sportsmanship, fair play and a common respect for fellow students.

PE is a state graduation requirement and is **worth 0.25 credits for one semester**. Students must earn 0.5 credits to graduate unless they complete two full seasons of a high school sport and utilize the PE Waiver option.

Students cannot combine one PE course with one season of a sport to create 0.5 credits of PE.

Credit	Grades	Prerequisite	GPA Scale
0.25	9, 10, 11, 12	None	Pass/Fail

STRENGTH AND CONDITIONING: MALE ATHLETES

STRENGTH AND CONDITIONING: FEMALE ATHLETES

This course is an elective designed to enhance athletic performance by developing fundamental movement patterns, strength, power production, and injury resistance. The course will be offered as separate courses for male and female athletes, so the curriculum is tailored to address the unique physiological differences, performance goals, and injury prevention strategies specific to each group.

Through structured training, students will build a strong foundation in proper lifting techniques, agility, speed, and endurance. The program emphasizes sport-specific conditioning and prepares students for more advanced training systems, including those integrated into Cardinal Mooney's athletic programs.

By the end of the course, students will:

- Develop proper movement mechanics to enhance performance and reduce the risk of injury.
- Improve strength, power, speed, and endurance through structured weightlifting and conditioning programs.
- Learn the principles of progressive overload, recovery, and injury prevention tailored to their sport and physiological needs.
- Gain an understanding of nutrition and recovery strategies for optimal athletic development.
- Prepare for advanced training programs used in Cardinal Mooney's athletic programs.

Credit	Grades	Prerequisite	GPA Scale
0.25	10, 11, 12	Students must be participating in a Cardinal Mooney athletic program to enroll in this course.	Pass/Fail

LIFETIME FITNESS (HP4004)

This course will touch on a wide variety of topics related to fitness and sport. Principles of training including diet and exercise techniques will be taught, as well as, rules and strategies of various lifetime sports. The classroom setting will vary each day from the weight room, to the gymnasium, to the field to the classroom. Students will be graded on written assignments, quizzes, article reviews and their effort and attitude during participation.

Credit	Grades	Prerequisite	GPA Scale
0.25	11, 12	Completion of PE I or 1 season of a CMHS sport with recommendation.	Pass/Fail

HEALTH (HP4101)

Health is a required course designed to help students develop an awareness of health and social problems that they will be confronted with in today's society. Examples of subject matter are: physical fitness, behavior, emotions, personality, drugs and alcohol, the opioid crisis, tobacco, first aid, diet and nutrition, human sexuality, mental health, and environmental health.

Credit	Grades	Prerequisite	GPA Scale
0.5	10	None - This is a required course for all sophomores.	4.0 scale

PHYSICAL EDUCATION WAIVER OPTION

The Physical Education Waiver is an alternative way for students to fulfill their P.E. graduation requirement in Ohio. No grade or credit is earned. The purpose of the waiver is to open a student's schedule so the student can take a 0.5 credit course in another area of study. If this option is used to fulfill the P.E. requirement for graduation, the student must complete two full seasons of a sport or band and the student must complete an additional 0.5 credit elective course. The student's counselor will facilitate the process when the student requests a waiver form.

See your Counselor for a form that must be completed to document each of the two sport seasons the student completes. The form must be signed and submitted to the counselor to be on record.

INDUSTRIAL ARTS DEPARTMENT

WOODWORKING I (IN5003)

The students will build at least three (3) wood projects. In the building process students will also be exposed to building supplies, materials, processes, and tools that are basic to area culture. Students are required to purchase materials for this class.

Credit	Grades	Prerequisite	GPA Scale
0.5	10, 11, 12	None	4.0 scale

WOODWORKING II (IN5005)

For students who have completed Woodworking I and want to continue to build their skills, this course offers them the opportunity to do so. Students design and complete additional wood projects. Students are required to purchase materials for this class.

Credit	Grades	Prerequisite	GPA Scale
0.5	12	Woodworking I and teacher recommendation	4.0 scale

MECHANICAL DRAWING I (IN5101)

The principles of sketching, printing, three view orthographic projection drawing, pictorial drawings, dimensioning, problem solving, and blueprint reading are studied. Students are required to purchase materials for this class.

Credit	Grades	Prerequisite	GPA Scale
0.5	10, 11, 12	None	4.0 scale

MECHANICAL DRAWING II (IN5102)

The principles of design and problem-solving methods are applied to product development, simple architecture projects and drawings with an emphasis on AutoCAD drafting and 3D printing Techniques and principles.

Credit	Grades	Prerequisite	GPA Scale
0.5	11, 12	Mechanical Drawing I	4.0 scale

MATHEMATICS DEPARTMENT

Graduation Requirement: At least 4 credits of Math including Algebra II or above

Cardinal Mooney's math curriculum is aligned with the Common Core Standards for Algebra I, Geometry and Algebra II and Trigonometry. To see 4-year math pathway options, click [here](#).

Calculators: A scientific calculator must be purchased for each student's use. The TI84+ would be a wise investment for those students with plans to pursue a math, science, or business career. This calculator is useful for ACT and SAT Tests and is vital in AP Calculus. They may be used for Algebra I.

ALGEBRA I (MA6103)

In this course emphasis is placed on algebraic properties, linear and polynomial equations with transformations, factoring, rational algebraic expressions, roots of algebraic expressions, radical expressions, quadratic equations, and problem solving. The TI30X11S calculator must be purchased for this class.

Credit	Grades	Prerequisite	GPA Scale
1	9	Based on HSPT results	4.0 scale

HONORS ALGEBRA I (MA6104)

Honors Algebra I is a course designed for students whose grades and standardized test scores indicate readiness for more intense studies in Algebra. Topics include operations and properties of real numbers, solving equations and inequalities, polynomials and factoring, graphing and analysis, rational expressions, radical expressions, relations and functions, quadratic equations, and problem solving. The pace and level of difficulty will be increased over the Algebra I course. Students should consider purchasing a TI-84 Plus calculator to use in all high school math classes.

Credit	Grades	Prerequisite	GPA Scale
1	9	Based on HSPT results	5.0 scale

GEOMETRY (MA6202)

This is a course to develop a better understanding of the nature of a math system, to develop power of spatial visualization, to appreciate the basic structure of geometry, and to perceive the role of inductive and deductive reasoning in both math and non-math situations. It also covers such topics as congruent and similar triangles, circles, constructions and transformations, and areas and volumes of geometric figures.

Credit	Grades	Prerequisite	GPA Scale
1	9, 10	Passing grade in Algebra I	4.0 scale

HONORS GEOMETRY (MA6203)

This course is designed for those students with above average ability in mathematics. Its emphasis is on the understanding of proof and the ability to write proofs. The topics of this course will be treated in greater depth and students can complete more topics than in the Geometry course. The student will study parallel lines, congruent triangles, polygons, similarity, right triangles, area and volume, coordinate geometry, and transformations.

Honors Geometry can be taken concurrently with Honors Algebra I in 9th grade or with Honors Algebra II and Trigonometry in 10th grade. This decision is made with counselors' approval and based on past courses and test scores.

Credit	Grades	Prerequisite	GPA Scale
1	9, 10	Completion (and acceptance) of High School Algebra I in 8th grade HSPT scores A in Algebra I or B in Honors Algebra I	5.0 scale

ALGEBRA II (MA6205)

This course is designed especially for juniors and seniors not desiring an in-depth trigonometry course or not planning to take Advanced Math. It enlarges on skills and concepts learned in Algebra I and investigates such topics as real and complex number systems, relations and functions, quadratic functions, coordinate geometry, real number exponents, logarithmic functions, and probability and statistics.

Credit	Grades	Prerequisite	GPA Scale
1	11	Passing grades in Algebra I and Geometry	4.0 scale

ALGEBRA II and TRIGONOMETRY (MA6106)

This course builds on the Algebra I course, developing competence in basic skills and understandings for dealing with number and form and investigating in depth such topics as the real number system, the complex number system, first and second degree equations and inequalities, functions, logarithms, polynomials, transformations, graphing and trigonometry.

Credit	Grades	Prerequisite	GPA Scale
1	10, 11, 12	C or higher in Algebra I and Geometry	4.0 scale

HONORS ALGEBRA II and TRIGONOMETRY (MA6107)

This course is designed for students whose mathematics ability is above average. Material will be covered at a greater depth, and a wider range of topics will be considered, than in the Algebra II and Trigonometry course. Topics include: solving equations, inequalities, and linear and quadratic systems; transformations, the complex number system, polynomial, exponential, logarithmic and trigonometric functions and problem solving. Students will use the school's TI-83 graphing calculators throughout the course. This course can be taken concurrently with Honors Geometry for students who want to have the prerequisites to take Calculus senior year.

Credit	Grades	Prerequisite	GPA Scale
1	10, 11	A in Algebra I or a B in Honors Algebra I	5.0 scale

PRECALCULUS (MA6304)

This pre-calculus course covers such topics as coordinate geometry of points and lines, inequalities and their graphs, functions, circle and triangle trigonometry, exponents and logarithms, vectors, complex numbers, sequences and series, advanced factoring, conic sections, and graphing of polynomials, and an introduction to probability and statistics and limits.

Credit	Grades	Prerequisite	GPA Scale
1	11, 12	80% or higher in Algebra II and Trigonometry	4.0 scale

ADVANCED PLACEMENT PRECALCULUS (MA6305)

In AP Precalculus, you'll explore concepts such as polynomial and exponential functions that can help you calculate your rise to influencer status, and many more concepts related to functions, logarithms, and trigonometry that can be applied beyond the classroom.

Skills students learn:

- Algebraically manipulating functions, equations, and expressions
- Translating mathematical information between representations
- Communicating with precise language, and providing rationales for conclusions

Students are **required to take the AP test** at the end of the school year. The fee for taking the AP exam is the responsibility of each student. Fee reductions are available for those who qualify.

This course will replace Honors Precalculus beginning in the 25-26 school year.

Credit	Grades	Prerequisite	GPA Scale
1	11, 12	C or higher in Honors Algebra II and Trigonometry	5.0 scale

CALCULUS (MA503)

This course will define and calculate limits. It will explore calculus through the interpretation of graphs, tables, and analytic methods. Derivatives will be determined and interpreted as rates of change and linear approximations. The definite integral will be introduced as a description of the net effect of rate of change over time, area under the curve, and volume of a solid. The TI-83 calculator will be used throughout the course.

Credit	Grades	Prerequisite	GPA Scale
1	12	C or higher in Precalculus	4.0 scale

ADVANCED PLACEMENT CALCULUS A/B (MA6501)

This course covers the material specified for the Advanced Placement AB Examination so that college credit can be earned. Topics include: functions, including trigonometric functions, exponential functions, and logarithmic functions; differentiation, including applications of the derivative; integration, including applications of the integral and some special techniques of integration. TI-84+ graphing calculators will be used throughout the course.

Students who take this course are required to take the AP exam. There is a fee for the exam which must be paid for by the student. Fee reductions are available for those who qualify.

Credit	Grades	Prerequisite	GPA Scale
1	12	B or higher in AP Precalculus	5.0 scale

COLLEGE ALGEBRA (MA6402)

This course is a pre-college course for students who have completed Algebra II or Algebra II and Trigonometry but may not desire to take Pre-calculus. This course provides a highly numerical approach to algebra and geometry through use of the calculator. The course will also involve the study of the trigonometric functions.

Credit	Grades	Prerequisite	GPA Scale
1	11, 12	Passing grade in Algebra II or Below an 80% in Algebra II and Trigonometry	4.0 scale

MUSIC DEPARTMENT

All music courses are elective options to fulfill the fine art graduation requirement.

BAND (AR1450)

This full year course is open to students who wish to learn how to play a band instrument. Enrollment in this full year course automatically enrolls students in the Marching Band and Pep Band. The Marching Band performs at each football game while Pep Band provides music for Home Basketball Games (rotates between girls and boys). The Band prepares seasonal concerts and other non-sporting-related musical performances. Instruments are available through the school, so please consult the band director if you do not own a musical instrument as we have a good selection of our own.

ALL scheduled performances are MANDATORY and are included in the course syllabus.

Credit	Grades	Prerequisite	GPA Scale
1	9, 10, 11, 12	None	4.0 scale

CONCERT CHOIR (AR1451)

The Concert Choir is the premier vocal ensemble of the school. Basic vocal technique and pedagogy are explored, and the music selection is varied in both topic and genre. Singers for Mass are selected from this group. Opportunities for collaboration with other school music ensembles as well as opportunities to perform outside of Mooney, and individual and/or small group singing, are also part of this course.

ALL scheduled performances are mandatory and included in the course syllabus.

Credit	Grades	Prerequisite	GPA Scale
1	9, 10, 11, 12	None	4.0 scale

PIANO I (AR1452)

This course is designed for the beginner-level musician: ***this is a start-from-scratch course needing no prior musical experience.*** By the end of the class, the students will be able to read and perform simple songs using music notation, demonstrate an understanding of the fundamentals of piano performance, and be able to navigate novice-level works of music using basic Music Theory. This course may not be repeated.

Credit	Grades	Prerequisite	GPA Scale
0.5	9, 10, 11, 12	None	4.0 scale

PIANO II (AR1454)

This course is designed for the advanced-beginner level musician. This course continues on the fundamentals of music that were taught in piano one, and then are expanded to include sight reading, playing chord accompaniments, and exploring more advanced playing technique. Students are required to participate in an end of semester performance, and will also participate in a music composition project during the course of the semester.

Credit	Grades	Prerequisite	GPA Scale
0.5	10, 11, 12	B or higher in Piano I and/or teacher recommendation	4.0 scale

PIANO III (AR1555)

This course is designed for the intermediate-level piano student with experience reading music and intermediate level technical proficiency navigating the keyboard. Students wishing to take this class must have the ability to be self motivated and driven as this class involves a lot of independent practicing and exploration. The class concentrates on applying Music Theory to performance using various selections of music, and also through song writing and composition. Students taking this course are required to perform in an end of semester performance, as well as participate in a music composition project. This course is designed to increase the current skill set of the student musician in a variety of ways. Students may only enroll in this course with teacher approval after having successfully completed either piano II, or participating in a piano competency test with the music teacher.

Credit	Grades	Prerequisite	GPA Scale
0.5	10, 11, 12	B in Piano II or successfully passing a piano competency test	4.0 scale

GUITAR (AR1500)

Guitar class introduces the basics of guitar performance to the student with no previous experience. **This class is designed for the start-from-scratch beginner.** Reading of traditional music notation and Tablature will be explored and technique explored covers the fretboard, scales, chords, and chord progressions in multiple genres. A fundamental understanding of basic music theory will be developed as well. This course may not be repeated.

Students may provide their own guitars or the school will provide them.

Credit	Grades	Prerequisite	GPA Scale
0.5	10, 11, 12	None	4.0 scale

Guitar II (AR1601)

Guitar II is a continuation of the progress made in Guitar I. Students entering the class should have a clear understanding of tablature, basic music notation, and basic chords and progressions. This course will include further exploration into both fingerpicking and strumming techniques, and will have a music composition component as well. Students will also participate in one public performance at the end of the semester.

Credit	Grades	Prerequisite	GPA Scale
0.5	11, 12	B or higher in Guitar I and/or teacher recommendation	4.0 scale

ADVANCED PLACEMENT MUSIC THEORY (AR1602)

AP Music Theory is an advanced level course designed to engage students in learning activities that will help them to achieve the outcomes assessed by the College Board's Advanced Placement Music Theory Examination. The AP Music Theory course is designed to develop a student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. These abilities will be developed through various listening, performance, written, creative, and analytical exercises.

Although this course focuses on music of the Common Practice Period (1600 – 1900), materials and processes found in other styles and genres are also studied.

Students who successfully complete the AP Music Theory Examination and plan to major in music in college may be able to enroll in an advanced music theory course, depending upon the individual college's policy.

Students who take this course are required to take the AP exam. There is a fee for the exam which must be paid for by the student. Fee reductions are available for those who qualify.

Class to be offered Every Other Year school year.

Credit	Grades	Prerequisite	GPA Scale
1	10, 11, 12	None	5.0 scale

SCIENCE DEPARTMENT

Graduation Requirements:

3 credits of science which must include:

1. Biology
2. One credit of a physical science
3. One credit of a course classified as an upper level/advanced science

Many colleges and universities recommend 4 credits of science for admission depending on a student's major. If a student plans to pursue a career in the medical field, it is recommended to take 4 credits of science including Anatomy and/or the Biomedical courses. If a student plans to pursue a career in engineering, it is recommended that he/she take a Physics course. Students should work with their counselors to help in the scheduling process and career planning. **To see 4-year science pathway options, click [here](#).**

PHYSICAL SCIENCE (SC7004)

In this course, students explore scientific concepts that provide the foundation for the study of many branches of science. Students will learn about the classification of matter, atoms, periodic trends of the elements, bonding and compounds, the reactions of matter, energy, waves, force, and the motion of the universe.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
1	9	Based on HSPT results	4.0 scale	Option to fulfill the Physical Science requirement

BIOLOGY (SC7102)

In this course, the student explores all the major themes of biology. They will learn about biochemistry, cytology, photosynthesis, respiration, evolution, genetics, and an introduction to the domains of life. Appropriate laboratory experiences will allow students to have hands-on experiences to clarify and confirm these concepts.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
1	10	Passing grade in Physical Science	4.0 scale	1 credit in Biology or Honors Biology required

HONORS BIOLOGY (SC7103)

This course is designed for the student who exhibits a strong interest in science and plans to pursue courses in honors chemistry, physics, advanced biology, or advanced chemistry. Topics include biochemistry, cytology, photosynthesis, respiration, evolution, genetics, anatomy, micro-techniques, botany, zoology, and all their related fields. Independent study and projects allow students to investigate these topics in depth. Students will also expand their learning through in-depth lab experiences.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
1	9	Based on HSPT results and 8th grade science grades	5.0 scale	1 credit in Biology or Honors Biology required

ADVANCED PLACEMENT BIOLOGY (SC7108)

In this course, students explore advanced topics in biology in preparation for the Advanced Placement Exam. The course is designed to be the equivalent of a college-level introductory biology course. Topics students study include: molecules and cells, cellular processes, heredity, evolution, organisms, populations, and ecology. The lab exercises emphasize modern biological laboratory techniques and give students the opportunity to experience labs that are the equivalent to those done by college students.

Students are **required to take the AP test** at the end of the school year. The fee for taking the AP exam is the responsibility of each student. Fee reductions are available for those who qualify.

This course is offered every other year.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
1	11, 12	B in Honors Biology and B in Honors Chemistry or A in Biology and an A in Chemistry with teacher recommendation	5.0 scale	Option to fulfill the Advanced Science requirement

ENVIRONMENTAL SCIENCE (SC7305)

The Environmental Science course is a year-long exploration of the natural world and the impact of human activity on the environment. Students will study ecological principles, natural resource management, and environmental challenges while developing critical thinking skills to analyze and propose solutions to real-world environmental issues.

By the end of the course, students will:

- Understand ecosystem dynamics, biodiversity, and the interdependence of living organisms.
- Explore energy flow and cycles of matter, including carbon, nitrogen, and water cycles.
- Examine the impact of human activities such as pollution, deforestation, and climate change.
- Investigate natural resources, their use, conservation, and the role of sustainability.
- Analyze environmental policies and ethics, including local and global efforts to protect the environment.
- Participate in hands-on experiments, field studies, and research projects to apply scientific concepts to real-world scenarios.

This course encourages students to think critically about environmental issues and their role in creating a more sustainable future.

Environmental Science qualifies as an advanced science toward the graduation requirement.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
1	11, 12	Passing grade in Physical Science and Biology	4.0 scale	Option to fulfill the Advanced Science requirement

CHEMISTRY (SC7202)

The student will be able to explore the fundamental concepts of chemistry, stressing periodicity, the acid-base relationships, redox, atomic theory, equilibrium, stoichiometry, and the gas laws. Laboratory procedures confirm each concept.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
1	10, 11, 12	C or higher in Biology and teacher recommendation	4.0 scale	Option to fulfill the Physical Science requirement OR Option to fulfill the Advanced Science requirement

HONORS CHEMISTRY (SC7203)

This course allows students to combine their math and science skills and intensely study major topics in chemistry. They will investigate stoichiometry, periodicity, oxidation reduction, thermodynamics, equilibrium, gas laws, and acid-base relationships. The course also includes laboratory experiences that reinforce concepts while allowing students to learn proper lab techniques.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
1	10, 11	80% or higher in Honors Biology and teacher recommendation or A in Biology and teacher recommendation	5.0 scale	Option to fulfill the Physical Science requirement for those on the Honors Science track.

ADVANCED PLACEMENT CHEMISTRY (SC7204)

In this course students will study advanced topics in chemistry in preparation for the Advanced Placement Exam. The course is designed to be the equivalent of a college introductory course in chemistry. Students will explore atomic structure, bonding, molecular structure, organic chemistry, oxidation-reduction reactions, nuclear chemistry, acid-base chemistry, thermodynamics, kinetics, and qualitative analysis. Appropriate lab exercises will complement the material.

Students are **required to take the AP test** at the end of the school year. The fee for taking the AP exam is the responsibility of each student. Fee reductions are available for those who qualify.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
1	11, 12	A in Algebra II and Trigonometry or B in Honors Algebra II and Trigonometry A in Chemistry or B in Honors Chemistry	5.0 scale	Option to fulfill the Advanced Science requirement

ADVANCED PLACEMENT PHYSICS: ALGEBRA BASED (SC7304)

Have you ever been curious as to why some objects float while others sink, why it's easier to balance on a bicycle when it's moving fast, or why it may seem like you're moving backward when a car passes you on the highway? Students cultivate their understanding of physics through classroom study, in-class activity, and hands-on, inquiry-based laboratory work as they explore concepts like systems, fields, force interactions, change, and conservation.

Skills students will learn:

- Creating representations that depict physical phenomena
- Conducting analyses to derive, calculate, estimate, or predict
- Describing experimental procedures, analyzing data, and supporting claims

Students are **required to take the AP test** at the end of the school year. The fee for taking the AP exam is the responsibility of each student. Fee reductions are available for those who qualify.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
1	11, 12	A in Algebra II and Trigonometry or B in Honors Algebra II and Trigonometry A in Chemistry or B in Honors Chemistry	5.0 scale	Option to fulfill the Advanced Science requirement

ANATOMY AND PHYSIOLOGY (SC7104)

This course will focus on human anatomy and physiology. Appropriate laboratory exercises will support the main concepts. Topics will include: cell and tissue physiology, skin and body membranes, and an in-depth study of human organ systems. Appropriate laboratory exercises will support the main concepts.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
1	10, 11, 12	C or higher in Honors Biology or B in Biology and C or higher in Chemistry May be taken concurrently with Honors Chemistry in grade 10	4.0 scale	Option to fulfill the Advanced Science requirement

FORENSIC SCIENCE (SC7012)

This course introduces the student to the science behind forensics. Topics covered will include collection of evidence, examination of trace evidence such as hair, fibers, soil, glass, fingerprints, blood, DNA ballistics and forensic anthropology. Labs will reinforce these concepts.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
1	10, 11, 12	C or higher in Biology	4.0 scale	Elective credit

BIOMEDICAL PROGRAM

The following courses are part of the two year Biomedical Program. Juniors and seniors who successfully complete the required courses will receive a special recognition at graduation. To remain eligible to continue in the program, students must meet the prerequisites for each individual course.

PRINCIPLES OF BIOMEDICAL SCIENCE (SC7023)

The Principles of Biomedical Science course is your students' introduction to the world of biomedical science. This course will introduce students to medical terminology, human body systems and how they are impacted by disease, microbiology, virology, immunizations, and pharmacology. This course provides an overview of all the courses in the Biomedical Sciences program and prepares students for subsequent courses.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
0.5	11	B or higher in Honors Biology A in Biology	4.0 scale	Option to fulfill the Advanced Science requirement

MICROBIOLOGY (SC7024)

In the course of the four-part series, students learn microbiological techniques to prepare agar plates, isolate and identify bacteria, and test antibiotic susceptibility and resistance. Students will also examine the modes of action of common antibiotics against different strains of bacteria. This course will also investigate the transmission and prevention of viruses.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
0.5	11	C or higher in Principles of Biomedical Sciences	4.0 scale	Option to fulfill the Advanced Science requirement

EPIDEMIOLOGY (SC7025)

Epidemiology is the study of the distribution and causes of disease in human populations and the techniques used to improve disease outcomes. This course investigates the distribution, the pattern, and the natural history of disease, and seeks to determine the cause of disease while evaluating strategies for the control, management, and prevention of disease.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
0.5	12	C or higher in Microbiology and Teacher Recommendation	4.0 scale	Option to fulfill the Advanced Science requirement

CAPSTONE: BIOMEDICAL INNOVATION (SC7026)

Students will apply what they have learned in the previous Biomedical Science courses to design innovative solutions to the health issues of today. Students will investigate issues in clinical medicine, physiology, biomedical engineering, mental health, and public health.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
0.5	12	C or higher in Epidemiology and teacher recommendation	4.0 scale	Option to fulfill the Advanced Science requirement

SOCIAL STUDIES DEPARTMENT

The Social Studies Department at Cardinal Mooney High School is focused on preparing our students to be engaged and informed citizens in the world in which they live by teaching them the knowledge and skills necessary to be effective in society. Through a rigorous instruction program, they will become creative and independent thinkers about issues in both the contemporary and historical world. Our students will be able to connect the past to the present and the implications for the future. The Social Studies Department offers a variety of courses. This diversity allows students to have an understanding of the historical and current issues locally, as well as nationally and globally.

Graduation Minimum Requirements:

1. 1 credit of Modern World History
2. 1 credit U.S. History
3. 0.5 credit of Government
4. 0.5 credit Financial Literacy

MODERN WORLD HISTORY (SS8001)

This course presents students with a chronological narrative of World History from the Enlightenment to the 21st Century. Within its framework, students will trace the development of civilization in different parts of the world. The course is integrated by a number of themes that form the patterns of civilization. These themes provide students with an understanding of political change and economic development, the influence of geography on cultures, the growth of science and technology, the effect of contact between cultures, and creativity in the arts.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
1	9	None	4.0 scale	1 credit of Modern World History or Honors Modern World History required

HONORS MODERN WORLD HISTORY (SS8803)

This course is designed for students who have an interest in Social Studies and plan to pursue AP and honors social studies classes throughout their high school career. This course presents students with a chronological narrative of World History, giving special emphasis to the cultures of Egypt, Greece, and Rome. The course is integrated by a number of themes that form the patterns of civilization. These themes provide influence of geography on cultures, the growth of science and technology, the effect of contact between cultures, and creativity in the arts. Honors Modern World History will be taught at a faster pace with more emphasis on writing and a more in depth look at the themes that are covered as part of the curriculum.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
1	9	Based on HSPT scores and prior grades	5.0 scale	1 credit of Modern World History or Honors Modern World History required

U.S. HISTORY (SS8101)

This course includes a general review of our nation's heritage from 1900 to the present day. It describes the struggles and accomplishments of all Americans, including the diverse ethnic and minority groups who have made numerous valuable contributions to our nation's identity. The course's chronological approach allows students to realize how the ideas and events of the past influence current ideas, decisions, and events.

Most importantly, the students will learn how generations of Americans have struggled to realize the promise embodied in the Declaration of Independence and the Constitution of the United States. Additionally, they will examine the growth of science and technology and their relationship to significant historical events, providing a comprehensive understanding of the intricate intersections between societal development and advancements in science and technology.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
1	11	Passing grade in Modern World History	4.0 scale	1 credit of U.S. History or AP U.S. History Required

ADVANCED PLACEMENT U.S. HISTORY (SS8102)

How did the United States become THE United States? What happened to the American economy when factories went from being powered by water to powered by coal? Or how have definitions of who is, and who is not, a U.S. citizen changed over time? In AP United States History, you'll explore and try to answer questions like these, while discussing the ways in which Americans have debated their values, practices, and traditions since even before the country's founding.

Skills students will learn to:

- Evaluate primary and secondary sources
- Analyze the claims, evidence, and reasoning they find in sources
- Put historical developments in context and make connections between them
- Come up with a claim or thesis and explain and support it in writing

Students are **required to take the AP test** at the end of the school year. The fee for taking the AP exam is the responsibility of each student. Fee reductions are available for those who qualify. By taking this exam, students may receive college credit in a U.S. History course (course credits vary per college).

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
1	11	B in AP Seminar or A in English 10	5.0 scale	1 credit of U.S. History or AP U.S. History Required

UNITED STATES GOVERNMENT (SS8314)

This course deals primarily with the institutions of the American government and relates them to the everyday world. Students are led to consider how the government is organized, and develop an understanding of the system and its structure. By exploring the foundations and principles of the United States government, the students will learn how the United States Constitution and the interpretation of the United States Constitution directly affects their lives.

They will also identify how a successful democracy in today's world depends on the understanding and participation of its citizens. Furthermore, students will examine the role the government plays in the world of science and technology and how these programs affect our lives. This multifaceted approach ensures a comprehensive exploration of the intricate connections between civic engagement, governance, and the dynamic landscape of science and technology.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
0.5	12	None	4.0 scale	0.5 credit of U.S. Government required or 1 credit of AP U.S. Government and Politics

ADVANCED PLACEMENT UNITED STATES GOVERNMENT AND POLITICS (SS8105)

Have you ever wondered how the government and politics are connected? Or how you can actively participate in the political process? In AP United States Government and Politics, you'll examine the relationships between the president, Congress, and the Supreme Court, and explore how different political ideologies and opinions shape American politics.

Skills students will learn:

- Connecting political concepts to real-life situations
- Explaining the impact and implications of certain U.S. Supreme Court decisions
- Analyzing data to find patterns and trends and draw conclusions
- Reading and analyzing text and visual sources
- Developing a claim or thesis and supporting it in an essay
- In exploring these areas, the goal is for students to develop analytical perspectives for interpreting, understanding, and explaining the political processes and events in this country. AP Test required.

Students are **required to take the AP test** at the end of the school year. The fee for taking the AP exam is the responsibility of each student. Fee reductions are available for those who qualify. By taking this exam, students may receive college credit (course credits vary per college).

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
1	12	B in AP English Language and Composition or B in AP U.S. History with teacher recommendation	5.0 scale	0.5 credit of U.S. Government required or 1 credit of AP U.S. Government and Politics

FINANCIAL LITERACY (SS8000)

The course is designed for students to research earning potential for various career choices and will complete an interest inventory as they begin to compile a career profile. Students will be presented with strategies for managing personal resources which will include the budget preparation, checking accounts and other banking services, saving/investing for the future, responsibilities, and cost of credit, renting vs. buying a home, buying a vehicle, simple income tax preparation, evaluating a pay stub and explanation of life, car and home insurances.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
0.5	12	None	4.0 scale	Course required for graduation

WORLD GEOGRAPHY (SS8317)

This course is an overview of geography throughout the world. It will cover physical and human geography of areas around the world. The course will also focus on the different cultures throughout the world. Students will learn to use maps, graphs, tables, and other geographical reference tools. Students will also learn to think spatially as they consider how things are distributed over the space of the earth.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
0.5	9, 10	None	4.0 scale	Elective option

PRINCIPLES OF PSYCHOLOGY (SS8318)

This course is a study of individual behavior which begins with the history of psychology, followed by the methods used in studying behavior. The students then investigate the "Life Span" of human development, namely, infancy and childhood, adolescence, adulthood and old age, followed by a discussion of the workings of the mind and body. The concepts of "Learning" and "Cognitive Processes" are explored next. These include the workings of the brain, altered states of consciousness, sensation and perception. The survey concludes with discussions on conditioning, memory, problem solving, motivation and emotion.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
0.5	10, 11, 12	None	4.0 scale	Elective option

SOCIOLOGY (SS8306)

This course provides students with a comprehensive examination of the basic concepts, principles, and methods central to the scientific study of sociology. The course is designed to meet three major goals. The first goal is to teach students to think like sociologists. The second goal is to help students develop a sociological imagination, which will enable them to view their own lives within a larger social and historical context. The third goal is to help students understand and thus appreciate the rich diversity that is possible in social life by exposing them to data from a wide variety of cross-cultural and historical sources.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
0.5	11, 12	None	4.0 scale	Elective option

ADVANCED PLACEMENT PSYCHOLOGY (SS8312)

Have you ever wondered why you act a certain way around different people? Or how your family and society influence your behaviors? In AP Psychology, you'll learn the foundational concepts that detail how and why people think and behave the way they do.

Psychology is commonly defined as the scientific study of behavior and the mental processes. This course will be designed around the five major content domains of psychology. Those domains are: Cognitive, Biopsychological, Developmental, Sociocultural, and Methods. The student will be expected to spend significant time outside of the classroom to master the course objectives.

Students will:

- Connect psychological concepts and theories to real-life scenarios
- Understand and interpreting data
- Analyze research studies in psychology

Students are **required to take the AP test** at the end of the school year. The fee for taking the AP exam is the responsibility of each student. Fee reductions are available for those who qualify. By taking this exam, students may receive college credit (course credits vary per college).

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
1	11, 12	B in Advanced Placement English courses or A in college prep English courses	5.0 scale	Social Studies Elective option

ADVANCED PLACEMENT HUMAN GEOGRAPHY

Students will investigate population trends, explore diverse cultural landscapes, and identify spatial patterns across various scales. From bustling cities to rural areas, students embark on a journey of discovery as they examine the diverse interactions that people have with the environment.

Students will also:

- Connect geographic concepts and processes to real-life scenarios
- Understand information shown in maps, tables, charts, graphs, infographics, images, and landscapes
- Recognize patterns and trends in data and in visual sources such as maps and draw conclusions from them
- Understand spatial relationships using geographic scales

Students are **required to take the AP test** at the end of the school year. The fee for taking the AP exam is the responsibility of each student. Fee reductions are available for those who qualify. By taking this exam, students may receive college credit (course credits vary per college).

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
1	10, 11, 12	B in Advanced Placement English courses or A in college prep English courses	5.0 scale	Social Studies Elective option

THEOLOGY DEPARTMENT

Graduation Requirement: 4 credits of Theology (8 courses at 0.5 credits each)

All students are required to successfully pass two theology courses each year as listed below for a total of 4 credits. Each course is on a 4.0 GPA scale. There are no prerequisites for these courses.

Students who transfer into Cardinal Mooney may be exempt from completing certain theology requirements from previous semesters depending on their transfer date.

PRINCIPLES OF THE CATHOLIC FAITH (RE9004)

This course provides an integrated survey of the doctrinal beliefs, prayer and worship traditions, Scriptures and moral principles of Roman Catholicism. It is presented with sensitivity to the spiritual growth and development of the adolescent. Woven within this course will be sessions on self-image and human sexuality, cultural and media influences, and moral and justice issues.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
0.5	9	None	4.0 scale	Course Required for graduation

OLD TESTAMENT (RE9003)

This course concentrates not only on the roots of Judaism but also Christianity, for it is within the story of the biblical Jews that Christianity has its origins. In studying the Old Testament, students will discover the Bible as the story of God's boundless love for us. This message will be presented in the different forms of literature: primeval history, patriarchal history, prophets, psalms, and selected writings.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
0.5	9	None	4.0 scale	Course Required for graduation

NEW TESTAMENT AND THE ACTS OF THE APOSTLES (RE9103)

This course leads students toward a deeper understanding of the New Testament and the Catholic approach to Scripture, the Good News of Jesus Christ, the Acts of the Apostles, and the Catholic Epistles of Saint Paul.

The students will explore three exegetical methods in the Catholic approach to Scriptures and learn about the development of the New Testament. This course will delve into the history, Christology, and ecclesiology of the books of the New Testament, beginning with the synoptic Gospels and the Gospel of John, and then explore the Acts of the Apostles, the Pauline and Deutero-Pauline letters, and the Book of Revelation.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
0.5	10	None	4.0 scale	Course Required for graduation

SACRAMENTS (RE9102)

The students will come to understand the seven sacraments as forms of liturgical signs highlighted in the gathering of the Catholic community's worship. Through instruction, the students will see the sacraments as an important area of the Catholic Church that puts us in touch with the risen Lord. The historical perspectives of the seven sacraments and the application of them to everyday Christian life will be explored.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
0.5	10	None	4.0 scale	Course Required for graduation

CATHOLIC CHURCH HISTORY (RE9203)

This course will present the students with the varied expressions of the Roman Catholic Church in its Western historical context so that, aware of the Church's development and social interaction throughout Western Civilization, students will understand the nature of the Church and appreciate their own role in the Church's mission today. Special emphasis will be placed on the nature and the development of the Catholic Church in Europe and the United States.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
0.5	11	None	4.0 scale	Course Required for graduation

MORALITY/JUSTICE AND PEACE ISSUES (RE9202)

This course leads the students toward a deeper understanding of God's law revealed to us through reason and revelation. The students explore how Christ's life and teachings are the fulfillment of the Old Law summarized in the Ten Commandments. Thus, the content of the course is explained by the moral law in the Old Testament, by Christ's moral teachings in the Gospels, and by the moral teaching of the Church. These are applied to our contemporary questions. The New Law of Christ calls us to go beyond keeping moral minimums and to love God, neighbor, and self with all our being. We can only do this empowered by God's grace. In the end, Christian Morality is about responding to God's love by living in full communion with God and others.

This course also leads students toward a deeper understanding of the rich traditions of Catholic social teachings. The course examines the foundations of Catholic social teaching in Scripture and tradition. The students then study specific social issues, such as the protection of human life from its beginning to its end, poverty and hunger, war and peacemaking, economic justice, and environmental justice. The students are called to reflect on Christ's call to live justly and confront sinful social structures.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
0.5	11	None	4.0 scale	Course Required for graduation

CHRISTIAN LIFESTYLES (RE9301)

This is a "life preparation" course that is animated by the conviction that the capacity for relationships, love, and a solid personal identity are all gifts from God. Growth in self-understanding and relational effectiveness will be treated fully as well as human sexuality in the context of love and commitment.

The students will be enabled to comprehensively examine and evaluate the various attitudes concerning sexuality that permeate our culture. Marriage in its sacramental, sexual, and personal dimension will be studied. Family life and its demands, with practical emphasis on social skills will also have its place in this offering. The single life, the committed religious life and Holy Orders will be presented as responsible and loving choices of Christian ministry. Divorced and separated, the widowed and the single parent will be explored and discussed. This course is required for all seniors.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
0.5	12	None	4.0 scale	Course Required for graduation

WORLD RELIGIONS (RE9404)

Seniors will study humankind's faith response to God as a being greater than ourselves as well as the expression of this belief in the Catholic Faith and Nicene Creed. Emphasis will be placed on the Kingdom of God and the role of Christians who believe in Jesus Christ as Lord and Savior in the Kingdom. Students will compare the major Christian denominations as well as major world religions: Buddhism, Confucianism, Hinduism, Islam, Judaism, and Taoism--with the correlation being made between the beliefs and practices of these religions and our own Catholic beliefs and practices. Analysis will be made of contemporary religious cults (e.g., Unification Church, People's Temple, Hare Krishna, etc.) regarding their appeal, their danger, and the difference between them and the major religions studied earlier in the course.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
0.5	12	None	4.0 scale	Course Required for graduation

WORLD LANGUAGES DEPARTMENT

Graduation Requirement:

2 consecutive credits of one World Language (*beginning with the class of 2028*).

3 consecutive credits of one World Language for Val/Sal eligibility and Honors Diploma.

It is recommended that students who are planning to apply to selective colleges/universities complete at least 3 credits of one World Language. See the Handbook for details about the language requirement to be eligible for the Honors Diploma and Valedictorian/Salutatorian status.

ITALIAN I (LA3401)

The objective of the first level course in Italian is to develop basic skills in grammar, speech and listening comprehension. Oral dialogues will be used to increase vocabulary and learn the culture, history, and geography of Italy. Additionally, students will learn about the contributions made by Italy to art, science, technology, and engineering, providing a rich and interdisciplinary understanding of the country's impact on various fields of knowledge.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
1	9, 10	None	4.0 scale	2 consecutive credits of one World Language

ITALIAN II (LA3402)

After an initial review of the fundamentals learned in Italian I, Italian II is a continuation with more advanced grammar, additional vocabulary, and basic spontaneous conversation. These skills will be used in the readings of excerpts from Italian literature. Moreover, students will also look at the relationship between the Italian language and scientific vocabulary, fostering a nuanced appreciation of how language intersects with scientific concepts in the context of Italian literature.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
1	10, 11	C or higher in Italian I	4.0 scale	2 consecutive credits of one World Language

HONORS ITALIAN III (LA3403)

Italian III is designed to help students develop spontaneous speaking skills as well as improve listening and reading skills. Vocabulary and grammar are reviewed in greater detail by speaking and writing compositions in the target language. The primary objective of this course is the attainment of a useful fluency in Italian.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
1	11, 12	C or higher in Italian II	5.0 scale	2 consecutive credits of one World Language

ADVANCED PLACEMENT ITALIAN LANGUAGE AND CULTURE (LA3404)

Continue enriching your Italian language skills with AP Italian Language and Culture. As one of the top economies in the world in areas such as interior design and fashion, robotics, and culinary arts, you'll learn about Italian culture and its global influence. You'll also explore the Italian-speaking world in this immersion course to develop lifelong communication, interpersonal, and intercultural skills that can help you unlock a global career.

Skills students will learn:

- Understanding Italian when you hear it and read it
- Holding conversations in real-life situations
- Writing stories, letters, emails, essays, and other texts

Students are **required to take the AP test** at the end of the school year. The fee for taking the AP exam is the responsibility of each student. Fee reductions are available for those who qualify. By taking this exam, students may receive college credit (course credits vary per college).

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
1	12	C or higher in Honors Italian III	5.0 scale	2 consecutive credits of one World Language <i>3 credits required for Honor Diploma and Valedictorian/Salutatorian eligibility</i>

SPANISH I (LA3901)

This course offers the student with a general introduction to the Spanish language utilizing a variety of audio activities, videos, learning pronunciation, functional vocabulary related to daily basis lifestyle, cultural knowledge and fundamental grammar applications. Concentration will be on the acquisition of four skills: listening, speaking, reading and basic writing. There are two main objectives to the course:

1. Provide students the ability to hold simple conversations.
2. Provide students with learning that enables them to comprehend and assimilate Spanish culture, vocabulary, and grammatical structures.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
1	9, 10	None	4.0 scale	2 consecutive credits of one World Language

SPANISH II (LA3402)

Spanish II builds upon and reinforces the skills gained in Spanish I: listening, speaking, reading and writing. Emphasis is on improving pronunciation, mastery of the basic grammatical structures, and increased communicative proficiency. Acquisition of new vocabulary is expected.

1. Students will be exposed to the past tenses, future, conditional and subjunctive mood.
2. Students will be expected to apply grammatical concepts in their writing and speaking.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
1	10, 11	C or higher in Spanish I	4.0 scale	2 consecutive credits of one World Language

HONORS SPANISH III (LA3403)

Spanish III continues building knowledge gained in Spanish I and II. This course is a continuation and reprocessing of knowledge acquired in Spanish I and Spanish II, as well as an introduction to new advanced vocabulary, structures, and expressions. Additionally, students will also study the relationship between the Spanish language and science vocabulary, broadening their linguistic proficiency to include specialized terminology relevant to the field of science.

1. Students will be expected to expand their repertoire of vocabulary range and include more sophisticated terminologies, use advanced language expressions, verb tenses and grammatical concepts such as: the pluperfect and the subjunctive mood.
2. Students will view Spanish language films with different accents and dialects and read selected Hispanic American literature.

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
1	11, 12	C or higher in Spanish II	5.0 scale	2 consecutive credits of one World Language <i>3 credits required for Honors Diploma and Valedictorian/Salutatorian eligibility</i>

ADVANCED PLACEMENT SPANISH LANGUAGE AND CULTURE (LA3904)

AP Spanish students continue working in cooperative learning through oral and written presentations, also learning and reinforcing knowledge from the past levels of Spanish. As this course is a higher-level in reading, speaking, listening and writing, students are encouraged to take ownership of their learning and keep up with the pace of content and reading assignments following deadlines.

Students are **required to take the AP test** at the end of the school year. The fee for taking the AP exam is the responsibility of each student. Fee reductions are available for those who qualify. By taking this exam, students may receive college credit (course credits vary per college).

Credit	Grades	Prerequisite	GPA Scale	Graduation Requirement
1	11, 12	C or higher in Spanish III	5.0 scale	2 consecutive credits of one World Language <i>3 credits required for Honor Diploma and Valedictorian/Salutatorian eligibility</i>