

MARMION ACADEMY



Program of Studies
2025-2026

Program of Studies

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Selection of Courses

Serious attention should be given to course selection since choices made are in effect for the entire year. Changes will ONLY be allowed in cases of schedule conflicts, over-crowding, or with the permission of the Office of Student Academic Services. Students are to consult with their parents and teachers in making selections. Special attention should be given to the recommended four-year curriculum as outlined in this document.

Not all courses listed in this Program of Studies are offered every year. Courses are offered based on sufficient student enrollment and the availability of instructional staff.

Course Change (Add/Drop) Policy

- All course changes require successful completion of the Course Change Request Form.
- Students may change / drop courses within the first 2 weeks of either semester without penalty or notation on the transcript.
- Any course changes made in the following 2 weeks (Weeks 3-4) of the semester will be noted on the transcript with a "WP" (Withdraw Pass) or "WF" (Withdraw Fail) based on the current grade at that time. Any course changes during this time period must be approved by the Office of Student Academic Services.
- Any student who drops a course during the first two weeks of the semester will be issued a course fee refund (when applicable). No refunds will be issued for courses dropped after the first two weeks of a semester.
- Withdrawal from a full-year course after a semester will be noted with a "W" (Withdrawal) on the transcript. Students may drop and then retake a course during the following year. The grades from both courses will be counted towards the cumulative GPA..
- Seniority is considered when deciding priority for all electives.
- Each semester, students must maintain an active course load of at least 5.5 classes during the regular school day (A-H Periods).
- Students are only permitted to have one full five-day study hall on their schedule per semester.
- Final course assignment and scheduling are processed through the Office of Student Academic Services.

Honors and Advanced Placement Courses

Honors courses are provided in selected subjects. Advanced Placement (AP) courses are offered in Biology, Chemistry, Physics, English Language, English Literature, World History, U.S. History, U.S. Government, Macro Economics, PreCalculus, Calculus AB, Calculus BC, Statistics, Computer Science, World Languages, and Music Theory. It is strongly recommended that students who maintain a 4.00 GPA or higher consider Honors and AP courses.

Honors and AP courses are "weighted" for computing GPA. All grades earned in Honors and AP courses will earn one additional quality point. The letter grade earned in Honors and AP courses is the letter grade posted to the transcript.

General Honors Placement Policy

There are three primary criteria that students are expected to meet to be placed into Honors/AP level courses:

- Department recommendation based on student ability, performance, and potential. (Note that AP includes Dual Credit courses in this section)
- Students wishing to enroll in Honors level courses are expected to maintain grades of B- or above in their current honors course, or an A- or above in their current non-honors course.
- Students wishing to enroll in Honors/AP level courses should have a Cumulative GPA of 4.00 or above.

Please note the following:

- The Office of Student Academic Services retains final approval on all placements.

- Students may take selective Honors courses; however, those choosing full Honors may receive registration priority based on scheduling needs.
- The number of students selected for Honors may be limited based on space, instructor, and scheduling availability.
- Priority placements based on Cumulative GPA and number of Honors courses previously successfully completed.
- AP classes may be limited to those identified as strong AP candidates through evaluation of ability, performance and potential, standardized test results, and teacher recommendations.
- Students enrolled in AP classes are expected to take the AP Exam in May. Please note the following regarding AP exam fees:
 - For full-year and 1st Semester AP Courses
 - Students may opt out of the AP exam for a full refund prior to November.
 - Students may opt out of the AP exam for a partial refund prior to January.
 - For 2nd Semester AP courses
 - Students may opt into or out of the AP exam prior to March.
- Honors Band, Honors Choir, and Advanced Music Appreciation placement requires approval of the Fine Arts Department.
- New Freshmen must score in 85th percentile or higher in specific subject areas on the Admissions Exam for initial qualification in English, Theology, and Biology. Math and World Language placement is based on placement testing done in May.

Honors Course Placement

English Placement

Freshmen

- Placement in Honors English 1 is based on an evaluation of Entrance Exam scores.

Sophomores

- Students must meet the conditions of the General Honors Placement Policy and have the recommendation of their English instructor.

Juniors and Seniors

- Students must meet the conditions of the General Honors Placement Policy and have the recommendation of their English instructor..

Fine Arts Placement

Sophomores, Juniors, and Seniors

- Placement in advanced music courses requires department recommendation and/or knowledge-based test.

Mathematics Placement

Freshmen

- All incoming freshmen are required to take the Math Placement Exam to determine if they are prepared to enter the Accelerated Math Track.
- The Math Placement Exam is given in May of the 8th grade year. Results determine placement in Algebra 1, Algebra 1 Enhanced, Algebra 1 Honors, or Geometry Honors. Placement beyond Geometry requires additional testing.

Sophomores, Juniors, and Seniors

- Students must meet the conditions of the General Honors Placement Policy.

Science Placement

Freshmen

- Freshmen are typically registered in Biology. However, freshmen have the option to defer Biology to

- sophomore year if they wish to take a Study Hall.
- Placement in Honors Biology is based on an evaluation of Entrance Exam scores.

Sophomores

- Placement in Honors Chemistry will be based on performance in Biology according to the General Honors Placement Policy.

Juniors and Seniors

- Students must meet the conditions of the General Honors Placement Policy in regards to the previous course in sequence. For example, students wishing to be placed into AP Biology must have received a B- or higher in Honors Biology or an A in Regular Biology. The same applies to AP Chemistry and AP Physics.

Social Sciences Placement

Freshmen

- Freshmen do not take any Social Sciences courses.

Sophomores

- Students must receive a B- or higher in English 1 Honors or an A or higher in Regular English 1, receive their English instructor's recommendation, and maintain an overall GPA of 4.00 or higher for placement into AP World History.

Juniors

- Students must meet the conditions of the General Honors Placement Policy.

Seniors

- Students must meet the conditions of the General Honors Placement Policy.

Theology Placement

Freshmen

- Placement in Honors is based on an evaluation of Entrance Exam scores.

Sophomores, Juniors, and Seniors

- Students must meet the conditions of the General Honors Placement Policy.

World Languages Placement

Freshmen

- All students requesting advancement in level, who hear/speak Spanish at home or were in Dual Immersion Programs, are required to take the World Languages Placement Exam.
- Honors placement available for Level 1 based on placement scores.
- Students whose Entrance Exam scores indicate that they may struggle with overall language skills may be advised to take a World Language class beginning with their sophomore year.

Sophomores, Juniors, and Seniors

- Honors is offered at Levels 2, 3, 4, and 5/AP.
- Placement in Level 2, 3, and 4 Honors and 5/AP requires department recommendation based on student ability, performance and potential

Senior Honors Thesis/Independent Study

1 or 2 Semester Course – Junior/Senior Elective Honors (All Disciplines)
Course Fee = \$150.00 per semester

Prerequisites:

1. Student has demonstrated strong academic performance.
2. Student must apply for Honors placement.
3. Student has demonstrated ability to be an independent learner.
4. Student must arrange preliminary meetings with faculty mentor.
5. Student must complete the Independent Study Course Request Form, complete with signature by the instructor that will be mentoring their work.
6. Final approval by Office of Student Academic Services and Department Chairperson.

Students will develop, with the assistance and guidance of an instructor, an independent research project to include a written and oral report along with other pieces as determined by the instructor, which is submitted to the appropriate department. This is considered an elite level of learning with formal presentation of results to faculty board, family and other members of the general public. Students may choose to do a one semester or full year project within any discipline. Students must meet with their mentor a minimum of one time per week in order to earn credit.

Summer School Policies

All students must have the approval of the Office of Student Academic Services to take any off-campus summer school course for high school credit. Approval forms should be completed and submitted to the Office of Student Academic Services prior to enrollment in the course.

Courses that are part of the core curriculum at Marmion will not be approved for summer school with the following exceptions:

- Students may take a “for credit” course that is offered at Marmion Academy.
- Students who are making up a failure by taking a course at a local community college or through another approved provider (see note). This will allow the student to recover the credit, but not change the grade of the course.
- A student may take an approved “high school credit” course to enable him to take a more advanced course in the same field at Marmion. The student will enroll in the advanced level at Marmion the following fall.
- Students are to request that a Student Report of Completion with a grade be submitted to the Office of Student Academic Services prior to the first day of classes in the fall.

The student will receive credit for an approved summer school course upon completion with a passing grade. The student’s transcript will be updated with the appropriate credit. If the course is not taught by a Marmion instructor, the grade is ‘noted’ on the transcript but not calculated in the student’s Cumulative GPA. If the course was taken to make up a failure, the grade of “F” will be replaced with “P” on the student’s transcript, and will still count as a 0 towards the student’s GPA.

A “For Credit” summer class taught by a Marmion Academy instructor will be posted on the 1st and 2nd semester transcripts for the following year and will be calculated in the student’s Cumulative GPA in accordance with the student’s other course grades for each semester. All one semester summer courses are reported in the 1st Semester.

Credit Recovery

Any student who fails a course required for graduation must make up the credit by completing the assigned credit recovery work via one of the methods below:

If a student fails the 1st Semester of a Full-Year Course:

- He will be required to pass the same course in the next semester with at least a 70% (“C-”) or better to avoid credit recovery in the summer.
- If the student earns a 70% (“C-”) or better in the 2nd Semester, the “F” from the 1st Semester will be replaced with a “P”. The student will earn graduation credit for the course, but the “P” will still count as a 0 towards his GPA.

If a student fails the 2nd Semester of a Full-Year Course:

- He will be automatically registered in the summer school credit recovery program.

If a student fails a One-Semester Course in the 1st Semester:

- He will be automatically registered in the summer school credit recovery program.
- He may retake the course in the 2nd Semester if his schedule allows for it.
 - If he passes the course in the 2nd Semester, he is not required to attend the summer credit recovery program
 - Please note that the failure will remain in place for the 1st Semester. The retake grade will appear in the 2nd Semester.

If a student fails a One-Semester Course in the 2nd Semester:

- He will be automatically registered in the summer school credit recovery program

Once credit recovery is completed, the credit will be awarded for the class for the purposes of graduation and college requirements. The grade of "F" will be replaced with "P" on the student's transcript, and will still count as a 0 towards the student's GPA.

Graduation Requirements

One credit equals a full school year's passing work in a subject which meets at least five days a week. Previous high school course work of transfer students will be evaluated on an individual basis.

Marmion considers it to be the responsibility of parents and students to be aware of Graduation Requirements so that there are no deficiencies.

The Marmion Curriculum Requirements are as follows:

(1) THEOLOGY	4 credits	Required each year
(2) ENGLISH	4 credits	Required each year
(3) MATHEMATICS	3 credits	Algebra 1, Geometry, Algebra 2 <i>4 credits recommended</i>
(4) SCIENCE	3 credits	Biology, Chemistry, 1 Science Elective <i>4 credits recommended of which 2 should be lab sciences</i>
(5) WORLD LANGUAGES	2 credits	Same language <i>4 credits recommended</i>
(6) SOCIAL SCIENCES	3 credits	World History, U.S. History, Amer. Gov't/Economics, Constitution Test required
(7) LEADERSHIP	2 credits	0.5 credit in either JROTC or Leadership Education and Development (LEAD) required each year
(8) HEALTH/P.E.	1.25 credits	0.5 credit P.E, 0.25 credit Health (Freshman year) Remaining 0.5 credit of P.E. may be earned at any time before graduation.
(9) FINE & PERFORMING ARTS	1 credit	0.25 credit Art Appreciation (Freshman year) 0.25 credit Music Appreciation (Sophomore year) Remaining 0.5 credit may be earned at any time before graduation via electives.
(10) FRESH SKILLS	0.25 credits	All freshmen will take a Freshmen Skills course during the 1st Semester
(11) ELECTIVES	1 credit	<i>Note that this is the minimum requirement, but students are encouraged to take more electives as their schedule allows.</i>
TOTAL CREDITS	24.50 credits	

College Admissions Requirements

It is the responsibility of the student and parents to be aware of university admission requirements and plan classes accordingly. Information on college and university admission requirements can be obtained either directly from the specific university's admission office or from the Marmion College Guidance Office. Consult both "in-state" and "out of state" colleges and universities for their requirements. **Students should begin their college search early in their junior year by contacting the Director of College Guidance for information.**

The Illinois Board of Higher Education has approved these admissions standards:

- 4 years English
- 3 years Mathematics (Algebra, Geometry, Algebra 2) – 4 recommended
- 3 years Sciences (Biology, Chemistry, Physics recommended) – 4 recommended
- 3 years Social Science (World History, U.S. History, Amer Gov't, Economics)
- 2 years electives (World Languages, Music, Art) - 4 recommended
- * Computer Literacy requirement is embedded within our core curriculum

Curriculum by Class

Listed below is the typical 7 course schedule for each class year.

Freshmen

6.75 credits

Theology 1 (H)
English 1 (H)
Biology (H)
World Language (H) (*Advanced Level by placement*) or Study Hall
Algebra 1 (H) (*Accelerated Math Track by placement*)
Health/P.E./Fresh. Skills
Leadership/Art Appreciation

Sophomores

6.75 credits

Theology 2 (H)
English 2 (H)
Chemistry (H) or Science Elective
World Language (H)
Geometry (H) (*Accelerated Math Track by placement*)
World History (AP)
Leadership/Music Appreciation

Juniors

6.50 credits

Theology 3 (H)
English 3 (AP)
Physics (H) or Science Elective
World Languages (H) or Elective
Algebra 2 (H) (*Accelerated Math Track by placement*)
U.S. History (AP)
Leadership/Study Hall, P.E. or Fine Arts

Seniors

6.50 credits

Theology 4 (H)
English 4 (H/AP/DC)
AP Science or Science Elective or General Elective
World Languages (H) or Elective
Pre-Calculus w/Trig (H/AP/DC) (*Accelerated Math Track by placement*)
American Government/Economics (AP/AP)
Leadership/Study Hall, P.E., or Fine Arts

Academic Policies and Protocols

GPA Formula

Each course's final semester grades will be counted toward the calculation of the official GPA (Grade Point Average). The overall "Cumulative GPA" will use sum of all quality points earned multiplied by each course's weight (credit hours) and then divided by the total number of credit hours taken. This is the official formula used by organizations such as the NCAA. Only Marmion courses are counted towards the official GPA. Grades from Marmion courses cannot be replaced by "re-taking" a course either inside or outside of Marmion.

GPA Quality Points

GPA points will be awarded according to the following model:

- Honors/AP Courses: A+ = 5.67, A = 5.33, A- = 5.00, B+ = 4.67, B = 4.33, B- = 4.00, C+ = 3.67, C = 3.33, C- = 3.00, D+ = 2.67, D = 2.33, D- = 2.00, F = 0
- Regular Courses: A+ = 4.67, A = 4.33, A- = 4.00, B+ = 3.67, B = 3.33, B- = 3.00, C+ = 2.67, C = 2.33, C- = 2.00, D+ = 1.67, D = 1.33, D- = 1.00, F = 0

Grading Scale

The grading scale used for all courses will switch to the following model:

A+ = 97-100, A = 93-97, A- = 90-93, B+ = 87-90, B = 83-87, B- = 80-83, C+ = 77-80, C = 73-77, C- = 70-73, D+ = 67-70, D = 63-67, D- = 60-63, F = 0-60

Other Grading Symbols

Besides the traditional letter grades, there are instances where other symbols are used on the transcript or report card. Listed below are these grading symbols along with an explanation:

F = Failure in a course (not recovered)

P = Passing credit awarded following the completion of credit recovery of a failed course

W = Withdrawal from a course (sometimes denoted with WP = Withdraw Pass or WF = Withdraw Fail in cases where a student withdraws too far into the semester)

CR = Credit awarded in cases where a student earns a non-graded credit for a course either by proficiency testing or other means

I = Incomplete, indicating a student's status in a course was not finalized prior to withdrawal

Class Rank

Class Rank is computed at the end of each semester based on the student's official Cumulative GPA, including grades posted up to and including the present semester. Grades from summer classes are posted by semester, and will be included per term. Ties for class rank are reported by position. Class rank is not posted on the official transcript, but is available upon request

Honor Roll Awards

At the end of each quarter, each student's "Honor GPA" is calculated by taking the weighted average of the grades from ALL courses. At the end of the 1st and 3rd Quarters, only the quarter grades are used to calculate the "Honor GPA". At the end of the 2nd and 4th Quarters, the semester grades are used to calculate the "Honor GPA".

Honor Roll will be awarded based on the following levels:

- 1) Honor = 3.00 – 3.75
- 2) Distinguished = 3.75 – 4.50
- 3) Superior = 4.50 – 5.00
- 4) Highest Average Award = 5.00 and above

Four-Year Course of Study Requirements

Required Credit Hours:

<u>Subject</u>	<u>Freshman</u>	<u>Sophomore</u>	<u>Junior</u>	<u>Senior</u>	<u>Total</u>
Theology	1	1	1	1	4
English	1	1	1	1	4
Mathematics	1	1	1		3
Science	1	1	1		3
World Lang.	1	1			2
Soc. Sci.		1	1	1	3
Am. Gov.				0.5	0.5
Economics				0.5	0.5
Fine Arts	0.25	0.25	(0.5)	(0.5)	1
Health/PE/Skills	1.00		(0.5)	(0.5)	1.50
Leadership	0.5	0.5	0.5	0.5	2
Electives			(1)	(1)	1
Total	6.75	6.75	5.5-7.0	5.5-7.0	24.50



English

Four years of English are required for graduation. Throughout the program, which is aligned with Common Core state standards, the important skills of reading, writing, speaking, listening, and thinking critically are developed. Electives in English are strongly recommended, especially for those students who are considering pursuing a college major in some area of the Liberal Arts. All courses meet five days per week and count for one credit unless noted otherwise. There will be a \$19.00 course fee for all courses in the range of English 1-4 for the vocabulary program that will be used at each level.

English 1 (1113 - Regular / 1110 - Honors)

Full Year Required Course – Freshmen

Honors and Regular

Course Fee = \$26 for Honors HMH electronic textbook program

Credits = 1.0 (NCAA)

English 1 focuses attention on the study of grammar, reading and vocabulary. The course also concentrates on developing writing skills with particular emphasis on the paragraph and short essay. Elements of the research paper are introduced. English 1 Honors reads additional texts and writes additional expository essays.

English 2 (1123 - Regular / 1120 - Honors)

Full Year Required Course –Sophomores

Honors and Regular

Credits = 1.0 (NCAA)

English 2 broadens the perspectives and hones the abilities acquired in the previous year. The role of the author as an interpreter of culture is examined through a regional survey of world literature. Composition assignments stress analytical skills. One research paper is required. English 2 Honors reads additional texts and writes additional expository essays.

English 3 (1133)

Full Year Required Course – Juniors

Credits = 1.0 (NCAA)

English 3 offers significant works from the major periods of American literature and expands the number and applications of literary terms. Writing projects include expository essays, short fiction, poetry, and a research paper.

English 3 Advanced Placement - Language and Composition (1134)

Full Year Honors Course – Junior Elective in Place of English 3

Instructor Recommendation/Dept. Approval/Director of Academic Services Approval

Credits = 1.0 (NCAA)

AP Language and Composition is a college-level course that offers students the opportunity to earn college credit and /or advanced college placement in English. This course will prepare the student to take the AP Language and Composition exam. This course focuses on rhetoric and writing, particularly analyzing how texts use rhetorical strategies to create meaning, purpose, and effect. Students will also study and compose essays integral to an introductory college composition course, such as narrative, analysis, argumentation, and a long-term research paper.

English 4 (1143)

Full Year Required Course – Seniors

Course Fee = \$26 for HMH electronic textbook program

Credits = 1.0 (NCAA)

The senior year focuses on the writing of expository and argumentative essays. English 4 offers significant works from

the major periods of British literature. Intensive studies in the genres of fiction, poetry, and drama are intended to deepen the students' understanding and appreciation of these literary forms. One research paper is required.

English 4 Dual Credit (ENG 101/102) (1155)

Full Year Course – Senior Elective (in place of English 4)

Regular Credit (Non-Honors Only)

Course Fees = Current Waubonsee College Dual Credit Fee Applies, \$26 for HMH electronic textbook program

Qualification = Must score 19 or higher on the ACT Reading/English sections or 480 or higher on the SAT

EBRW Section

Credits = 1.0 (NCAA)

This course provides an opportunity for motivated students to earn both college and high school credit in English at the same time. In conjunction with Waubonsee Community College, this is a college level course that mirrors the curriculum of English 101 and English 102 offered at most colleges and universities. It focuses on the writing of Narrative, Expository, and Argumentative essays and concentrates on the writing process, identifying and responding to different audiences and rhetorical situations, and understanding the conventions of format and structure relating to academic writing. Practice in research, critical thinking and textual analysis is emphasized. Literary works that are part of the English 4 curriculum will also be studied.

English 4 Advanced Placement/Dual Credit - Literature and Composition (1175)

Full Year Honors Course – Senior Elective (in place of English 4)

Instructor Recommendation/Dept. Approval/Director of Academic Services Approval

AP Exam Expected – Current AP Exam Fee Applies

Course Fees = \$72 Waubonsee College Dual Credit Fee Applies (subject to change)

Credits = 1.0 (NCAA)

AP Literature and Composition is a college-level course that offers students the opportunity to earn college credit and /or advanced college placement in English. This course will prepare the student to take the AP Literature and Composition exam. Students will learn to analyze a variety of literary genres. Writing is also a key component of this course. This course also doubles as a Dual Credit program offered through Waubonsee Community College (see description above for Dual Credit English 4).

Publications (1183)

Full Year Course – JR/SR Elective

Meets 3 days per week during I Period

Credits = 0.5 per semester (NCAA)

*This course also counts toward completion of the Fine Arts requirement.

This course emphasizes the skills and knowledge required to produce a newspaper, literary magazine, and yearbook. Students will participate in the publication process, from the brainstorming phase to the final product distribution. Students will learn how to conduct an interview, develop questions, and write effective headlines, summaries, captions, and leads while writing feature, news, opinion, creative, and sports stories for the newspaper, literary magazine, and yearbook. Students in this course are expected to take on leadership roles on the newspaper, literary magazine, and yearbook staffs.

World Languages

Two years of the same language are required for graduation. It is recommended that an eligible student complete four years of the same language. Successful completion of a prior level or department placement exam is required for advancement to the next level.

- All courses meet 5 days per week, and count for 1 credit unless otherwise noted.

French 1 (2110 - Regular / 2113 - Honors)

Full Year Course – Freshman Level

Honors and Regular

Honors Placement based on Admissions Exam or Placement Testing

Credits = 1.0 (NCAA)

French 1 is an introductory class in the basic structures and vocabulary of French. The main objectives of the course are to introduce and broaden skills in communicating effectively in French. The four basic skills of listening, speaking, reading and writing are developed. Upon successful completion of this course the student will be able to comprehend simple spoken French on familiar topics as well as being able to speak, listen, read and write correctly in French all while discovering French culture and civilization. This process demonstrates an understanding that competence in a foreign language can be acquired only by mastering the five components of any language: grammar, comprehension, vocabulary, fluency and accent.

French 2 (2120 - Regular / 2123 - Honors)

Full Year Course – Sophomore Level

Honors and Regular

Prerequisite: French 1 or Placement Exam

Honors Placement based on Instructor Recommendation and Dept. Approval

Credits = 1.0 (NCAA)

This course expands upon the foundation of French 1 by learning more vocabulary and new grammar such as the future and past tenses. Students read one short novel and continue weekly writing assignments. Students continue to study Francophone culture.

French 3/4 (2153)

Full Year Course – Junior/Senior Level

Prerequisite: French 2 Instructor Recommendation/Department Approval

Credits = 1.0 (NCAA)

This course changes curriculum every other year so it may be taken twice during junior and senior years. Focus is on broadening vocabulary and solidifying comprehension of grammar concepts. This class is geared toward the student who would like to continue taking French but is not interested in taking the Dual Credit course.

French 3 Honors (2130)

Full Year Course – Junior Level

Prerequisite: French 2 Instructor Recommendation/Department Approval

Credits = 1.0 (NCAA)

This is an advanced course focusing on solidifying grammar knowledge such as usage of verb tenses, direct/indirect pronoun usage, and adverbs. Students read more advanced material and are expected to continue improving their ability to speak in French through classroom discussion. Students continue learning about French culture through film, readings, music, and other media. This class prepares students for taking Dual Credit French during their senior year.

French 4 Honors/Dual Credit (2145)

Full Year Course – Senior Level

Prerequisite: French 3 Honors Instructor Recommendation/Department Approval

Course Fee: \$195.00 Dual Credit Fee (paid directly to Loyola University)

Credits = 1.0 (NCAA)

This course continues the progression of French 3 Honors. The course expands upon grammar and structures covered in previous levels. Students review and refine those structures while learning new vocabulary to communicate in French on a variety of topics. Dual Credit French emphasizes all aspects of language: listening, speaking, reading, writing and culture. Students are expected to use French in speaking and writing. Improving listening skills and continuing to learn more about Francophone culture are also integral to this course. This course offers Dual Credit through Loyola University and is comparable to French 104 at Loyola University of Chicago.

Latin 1 Honors (2010)

Full Year Course – Freshman Level

Placement based on Admissions Exam or Placement Testing

Credits = 1.0

This course introduces basic vocabulary and verbs with grammar structures. Students are challenged to learn Latin by speaking and hearing Latin in an immersive classroom environment where Latin is spoken for most of class. Different scenes and situations common to student experience (e.g. a classroom, coming to and going from a place, beginning a conversation, etc.) are used to illustrate the words that are learned. Reading and writing in Latin is also introduced. Additionally, students learn numbers, questions, colors, and relative pronouns in order to produce narratives and give lessons to their classmates.

Latin 2 Honors (2020)

Full Year Course – Sophomore Level

Prerequisite: Latin 1 Honors or Placement Exam

Honors Placement based on Instructor Recommendation and Dept. Approval

Credits = 1.0

This course builds upon and expands the students' Latin lexicon from Latin 1. All tenses of the indicative mood are covered. Active and passive voices are also introduced. Deponent verbs and the subjunctive mood are also inserted into lessons as needed. This course focuses on scenes and situations common to ancient Roman life so that the students become more familiar with the world in which Latin emerged. Students will become familiar with the stories and history of the ancient Romans. Primary texts are also used to illustrate how ancient Latin speakers wrote. Students will also begin to engage in Latin symposia and competitions with students of Latin in the area.

Spanish 1 (2213 - Regular / 2210 - Honors)

Full Year Course – Freshman Level

Honors and Regular

Honors Placement based on Admissions Exam or Placement Testing

Credits = 1.0 (NCAA)

This course introduces basic vocabulary and grammar structures. Students focus on the conjugation of regular and irregular verbs in the present tense as well as the acquisition of fundamental vocabulary and its use in context to facilitate further language and cultural study. Emphasis is placed upon acquiring the skills of speaking, listening and reading.

Spanish for Heritage Speakers 1/2 (2235) / **Dual Credit - Spanish 252** (2235)

Full Year Course – Freshman and Sophomore Levels

Prerequisite: Placement based on Admissions Exam or Placement Testing / Dept. Approval

Honors Course

Credits = 1.0 (NCAA)

This course is for students who grew up speaking and/or hearing Spanish at home. In order to become more proficient in their heritage, culture and language, this course introduces learners to elements of history, literature, culture,

and formal writing. Students will explore the nuances of Spanish in formal and informal contexts with an emphasis on reading, writing, grammar, and vocabulary building. This course follows a two-year rotation allowing for the Freshmen and Sophomores to fulfill their two-year World Language requirement. After successful completion of these first two years (Heritage 1 & 2), students can then move on to Heritage 3 & 4 which will prepare them for the AP Spanish Language and Culture Exam.

Este curso es para estudiantes que crecieron hablando y/o escuchando español en casa. Con el fin de ser más competentes en su patrimonio, cultura e idioma, este curso presenta elementos de historia, literatura, cultura y escritura formal. Los estudiantes explorarán los matices del español en contextos formales e informales con énfasis en la lectura, escritura, gramática y desarrollo de vocabulario. Este curso sigue un ciclo de dos años para satisfacer el requisito de idiomas de dos años. Después de completar los primeros dos años (Heritage 1 & 2), los estudiantes pueden completar Heritage 3 & 4 que los prepararán para el examen de AP de Español de idioma y cultura.

Spanish 2 (2223 - Regular / 2220 - Honors)

Full Year Course – Sophomore Level

Honors and Regular

Prerequisite: Spanish 1 or Placement Exam

Honors Placement based on Instructor Recommendation and Dept. Approval

Credits = 1.0 (NCAA)

Expanding upon the skills learned in Spanish 1, students further develop speaking, listening, reading and writing skills in Spanish. The past tenses are introduced with additional vocabulary acquisition and more complex grammatical structures. Students further explore Hispanic culture and geography.

Spanish 3 (2233)

Full Year Course – Junior Level

Prerequisite: Spanish 2 plus Instructor Recommendation / Department Approval

Credits = 1.0 (NCAA)

This course continues the study of more advanced grammatical structures and Spanish vocabulary acquisition. This level concentrates on expanding the practical vocabulary needed for active, spontaneous conversation. Students will further explore the history and culture of Spain and Latin American countries. There is continued stress on the skills of listening, speaking, reading and writing in Spanish..

Spanish 3 Honors (2230)

Full Year Course – Junior Level

Prerequisite: Spanish 2 Honors plus Instructor Recommendation / Dept. Approval

Credits = 1.0 (NCAA)

This course is designed for students who have excelled in Spanish 1 Honors and Spanish 2 Honors and who have the desire to continue learning the language. This is a fast paced class in which complex grammar structures must be mastered in preparation for higher level Spanish classes. Gaining fluency through spontaneous conversation, group discussion, reading advanced material and development of listening comprehension is the goal. Analytical thinking and advanced writing assignments are required.

Spanish 4 (2243)

Full Year Course – Senior Level

Prerequisite: Spanish 3 plus Instructor Recommendation / Department Approval

Credits = 1.0 (NCAA)

In this course, students continue to develop skills in speaking, reading and writing. This is done primarily through an extensive review of vocabulary and grammar structures and continuation of the learning and practice of all tenses of verb conjugations. The course also includes Spanish and Latin American culture and history using authentic resources..

Spanish 4 Honors/Dual Credit (2245)

Full Year Course – Senior Level

Prerequisite: Spanish 3 Honors plus Instructor Recommendation / Dept. Approval

Course Fee = \$195.00 Dual Credit Fee (Paid directly to Loyola)

Credits = 1.0 (NCAA)

This course continues the progression of Spanish 3 Honors in preparation for AP Spanish. Students will practice the language at a more challenging pace. The class will review all the verb tenses and through an intense practice of grammar, listening activities and writing, the students will increase their vocabulary and improve their communication skills. Exercises will be oriented to solve problems based on daily life situations. The course also includes Spanish and Latin American culture, history and politics through authentic resources. This course offers Dual Credit through Loyola University and is comparable to Spanish 104 at Loyola University of Chicago.

Spanish 5/Advanced Placement - Language and Culture (2240)

Full Year Course – Senior Level

Prerequisite: Spanish 4 Honors OR Spanish for Heritage Speakers plus Instructor Recommendation / Dept. Approval

AP Exam Expected – Current AP Exam Fee Applies

Credits = 1.0 (NCAA)

The AP course is a rigorous course taught exclusively in Spanish that requires students to improve their proficiency. The course focuses on the integration of authentic resources including online, audio and audiovisual resources as well as traditional print resources including literature, essays and magazine and newspaper articles with the goal of providing a rich and diverse language experience. Students communicate using advanced vocabulary and linguistic structures as they build proficiency in all modes of communication. Students are expected to sit for the AP Spanish Language and Culture Exam.

Social Science

World History (3123)

Full Year Required Course – Sophomores

Credits = 1.0 (NCAA)

World History is a comparative study of the growth and development of the major world civilizations from the earliest times to the present. The primary objective is to provide an understanding of the historical development of humanity within the context of various interrelating civilizations. The class starts with the earliest of civilizations (Egypt, Mesopotamia, Greece, Rome), and then focuses primarily on the modernization of the western world, including the Middle Ages, Renaissance, the development of rationalism and scientific thought, the French Revolution, the industrial revolution, imperialism, and the World Wars. Also, attention is given to the Orient, Africa, and Middle East.

World History Advanced Placement - Modern (3130)

Full Year Course – Sophomore Elective in place of World History

Placement based on Instructor Recommendation and Department Approval

AP Exam Expected – Current AP Exam Fee Applies

Credits = 1.0 (NCAA)

In AP World History: Modern, students investigate significant events, individuals, developments, and processes from 1200 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places.

Course Themes:

1. Humans and the Environment (ENV)
2. Cultural Developments and Interactions (CDI)
3. Governance (GOV)
4. Creation, Expansion, and Interaction of Economic Systems (ECN)
5. Social Interactions and Organization (SIO)
6. Technology and Innovation (TEC)

AP World History: Modern is designed to be the equivalent of an introductory college or university survey of modern world history. Students should be able to read a college-level textbook and write grammatically correct, complete sentences.

This course covers the requirements for World History and prepares students to take the AP World History Exam.

U.S. History (3233)

Full Year Required Course – Juniors
Prerequisite: World History
Credits = 1.0 (NCAA)

This course gives the student a survey knowledge, emphasizing development of social and political institutions, and providing background necessary for intelligent citizenship. The first semester covers the period from Reconstruction to World War I and the second semester spans the 1920's to the 2020 Election.

U.S. History Advanced Placement (3230)

Full Year Course – Junior Elective in place of US History
Prerequisite: World History Instructor Recommendation / Department Approval
AP Exam Expected – Current AP Exam Fee Applies
Credits = 1.0 (NCAA)

This course covers all areas of U.S. History and prepares students to take the AP U.S. History Exam. This course also offers Dual Credit via Waubensee College.

American Government (3441 / 3442)

One Semester Required Course – Seniors
Meets 5 days per week for one semester
Credits = 0.5 (NCAA)

This course focuses on the foundations and major institutions of the federal government and of the state of Illinois. Structures and functions of these governments and ancillary institutions will be examined. Also included in this course is a unit that satisfies the ISBE requirement of the Constitution Test.

U.S. Government and Politics Advanced Placement (3450)

One Semester Course – Senior Elective (in place of American Government)
Prerequisite: U.S. History / Department Approval
Credits = 0.5 (NCAA)

This course in United States Government and Politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. Students will become acquainted with the variety of theoretical perspectives and explanations for various behaviors and outcomes. This course prepares students to take the AP U.S. Government Exam. Also included in this course is a unit that satisfies the ISBE requirement of the Constitution Test.

Disciplinary Practices: Concept Application, SCOTUS Application, Data Analysis, Source Analysis, and Argumentation.

Big Ideas: Constitutionalism (CON), Liberty and Order (LOR), Civic Participations in a Representative Democracy (PRD), Competing Policy-Making (PMI), and Methods of Political Analysis (MPA)

Economics (3541 / 3542)

One Semester Required Course – Seniors
Meets 5 days per week
Credits = 0.5 (NCAA)

This course is designed to introduce students to various economic systems with special focus on the U.S. economy and the key factors that cause the economy to expand or contract. Students will learn how they fit within our economic system as consumers, workers and citizens. Key topics such as how to become more informed consumers, how to conduct banking transactions, how to save and invest money, how to obtain credit, the values and drawbacks of credit, the various types of taxes, how to file a tax return will be discussed along with other financial related topics. The course will include a significant amount of class discussion and practical application. Also included in this course is a unit that satisfies the ISBE requirement of Consumer Education.

Macro Economics Advanced Placement (3550)

One Semester Course – Senior Elective (in place of Economics)
Prerequisite: US History / Department Approval
AP Exam Expected – Current AP Exam Fee Applies
Credits = 0.5 (NCAA)

This semester-long course gives students a thorough understanding of the principles of economics that apply to the function of economic systems as a whole. Beyond the study of basic economic concepts like scarcity and supply and demand, this course places emphasis on national income, fiscal and monetary policy, measures of economic performance and growth and international trade.

This course covers the requirements for Consumer Economics and prepares students to take the AP Macro Economics Exam.

Psychology (3311)

One Semester Course – JR/SR Elective
Meets 5 days per week in the 2nd Semester
Credits = 0.5 (NCAA)

This course provides students with an overview of the field of psychology and the study of human behavior. Students are made aware of the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Topics will range from the biological basis of behavior, the learning process, research methodology and ethics, to development and abnormal behavior.

Intro to Philosophy Honors/Dual Credit (PHL 100) (3345)

One Semester Course – JR/SR Elective
Meets 5 days per week in the 1st Semester
Dual Credit Fee: \$36.00
Credits = 0.5 (NCAA)

This course provides an overview of the major fields of philosophy including metaphysics, epistemology, logic and ethics. Fundamental questions may include: What is the meaning of life? Does God exist? Are we free? What can we know? What makes a good argument? How should we live? This will include a study of the recurrent and persistent human principles and philosophical problems pertaining to the validity of knowledge, the nature of truth, the nature of identity, free will and determination, moral values, and religious belief systems. This course will also provide the opportunity for Dual Credit through Waubensee Community College for PHL 100.

Intro to Ethics Honors/Dual Credit (PHL 105) (3355)

One Semester Course – JR/SR Elective
Meets 5 days per week in the 2nd Semester
Dual Credit Fee; \$36.00
Credits = 0.5

This course is a study of the principal ethical theories and concepts of human conduct and character, as well as a critical evaluation of these theories and concepts as they apply to particular moral issues and decisions. Students study ethical theories such as ethical egoism, utilitarianism, Kantianism, virtue ethics, Divine Command Theory, and moral relativism, and consider how these views apply to moral issues related to such topics as suicide, sex and marriage, war, terrorism, legal punishment, animal rights, the environment, and other current moral problems.

Principles of Business Dual Credit (3635)

One Semester - JR/SR Elective
Meets 5 days per week for one semester
Course Fee: \$36 Waubensee Course Fee, plus \$109 online “Connect” fee (both fees are subject to change)
Credits = 0.5

This course provides the foundation for developing concepts, attitudes and philosophies about business operations. The following topics are introduced: management, marketing, accounting, finance, securities markets, economics, ethics and social responsibility, human resources, advertising and promotion, distribution and international business.

History of Chicago (3242)

One Semester Course – JR/SR Elective
Meets 5 days per week in the 2nd Semester
Credits = 0.5

The History of Chicago is a semester long class designed to develop your knowledge about the city’s history and culture. The course will cover Chicago’s history chronologically and along the way we will study art, architecture music, crimes, disasters, politics, civil rights, neighborhoods and sports, which have shaped and defined the “Windy City.” We will be using a variety of primary sources (newspapers, letters, photographs, documents, journals) as we examine the history of this dynamic city from different points of view

Accounting (3642)

One Semester Course – JR/SR Elective
Meets 5 days per week in the 2nd Semester
Course Fee: \$45.00
Credits = 0.5

This course is an introduction to the preparation and analysis of financial statements. Specific topics include the accounting model, general-purpose financial statements and accounting for assets, liabilities, and equity. This course will also include an explanation of what accounting is and the role it plays in business and our personal lives.

Intro to Marketing Dual Credit (3835)

One Semester Course – JR/SR Elective
Meets 5 days per week in the 2nd Semester
Course Fee: Dual Credit Fees Apply (paid directly to Loyola University)
Credits = 0.5 (NCAA)

This course is an introduction to the principles, concepts, strategy and tactics of marketing. This course provides an overview of marketing, the art of building relationships between products and services and unique consumers, businesses and markets.

Intro to Law (3323)

Full Year Course – SO/JR/SR Elective

Meets 3 days per week for the full year during I Period

Credits = 0.5

This is a year-long course that meets three times a week during I Period. It is designed to introduce students to the basic legal concepts related to substantive and procedural law, cases, statutes, and the constitution. The course will develop their legal vocabulary and analytical skills with a concentration on Trial Advocacy, Business Law, Civil Law, Constitutional Law and Criminal Law to help prepare students to participate in Mock Trial competitions. This course will educate the students as to the American legal system, legal terms and concepts, and will help develop critical thinking, poise and public speaking skills.

Intro to Law 2 (3333)

Full Year Course – SO/JR/SR Elective

Prerequisite: Intro to Law 1 / Department Approval

Meets 3 days per week for the full year during the Mixed Period

Credits = 0.5

This course would provide a basic introduction to additional areas of law not covered in Introduction to Law I. The goal of the course would be to complete a well-rounded coverage of fundamental legal concepts and current jurisprudence across a broad array of legal disciplines. The course would also provide selected areas of focused attention on areas of law specifically relevant to young adults beginning post-secondary education.

Theology

Every student is required to take a Theology course each year. These courses are designed to continue the Christian formation of students and to build upon their basic foundation of Christian knowledge. All courses meet 5 days per week and count for 1 credit unless noted otherwise.

Theology 1 – Introduction to Catholicism and Old Testament (3913 - Regular / 3910 - Honors)

Full Year Required Course – Freshmen

Honors and Regular

First Semester - This introduction to Catholicism serves as a survey course that allows students to gain a greater understanding and background of the core principles and important teachings of the Catholic faith. In addition, special attention is given to looking at our Benedictine heritage and the pillars that define our school's spirituality and mission. Students are also provided with an overview of how Catholics worship God and encounter Jesus Christ through the seven sacraments of the Church.

Second Semester - The second semester of this course is designed to explore the rich history of the Old Testament, which contains the roots of not only Judaism but also Christianity. This journey through the Old Testament will help students comprehend the wealth of Judeo-Christian spiritual tradition, challenge them to grow in their appreciation of God, and gain a greater understanding of God's revelation throughout scripture.

Theology 2 – Life of Christ/Introduction to Morality (3923 - Regular / 3920 - Honors)

Full Year Required Course – Sophomores

Honors and Regular

First Semester – Encountering Jesus in the New Testament – This course explores the mission, the message, and the meaning of the person of Jesus Christ as revealed in the Christian Scriptures. It emphasizes Jesus is alive and manifests himself to us today through the Church, the People of God. It centers around the person of Christ revealed in Scripture and Tradition with a particular focus on the background, writers, and teachings of the four Gospels, and

to the centrality of Jesus Christ to all Scripture.

Second Semester – Catholic Morality: Your Life in Christ – This course is an introduction to Catholic Morality based on Christ's teaching to love God, love self, and love others as a basis for all moral decisions. Students explore and learn the moral concepts that govern the lives of Christ's disciples. Students develop the critical skills necessary to make an informed ethical decision. They reflect on the moral situations of their lives and compare their values to the values of Christ and the values of society. They learn about virtue, vices, informed consciences, the reality of personal and social sin, natural law, forgiveness, respect for self, others and God.

Theology 3 - Church History and Catholic Social Justice Teachings (3933 - Regular / 3930 - Honors)

Full Year Required Course – Juniors
Honors and Regular

In order to understand the development of Christianity and the nature of the Catholic Church today, it is important that we know its "story." This course is intended to provide students with a wider understanding of the Church's life and work over two millennia. The study of the Rule of Benedict is given a special place in this course, allowing each student to spend some time acquainting himself with a basic and formative document that has shaped the character of much of Western Civilization and the history of Marmion Abbey and Academy. The first semester study of Church history prepares the student to focus on the heritage of social justice teaching that has emerged over the centuries. Catholic Social Teaching is the focus of the second semester, with special attention given to contemporary and compelling application of this teaching in a variety of areas and disciplines.

Theology 4 Honors/Dual Credit Comparative Religions (3945 - Honors)

Full Year Elective Course – Seniors
Honors Course
Course Fee: \$36.00 Dual Credit Fee

The first semester explores Comparative Religions and is designed to familiarize the student with the historical background, teachings and influence of the major world religions. Comparing these religions with Christianity is a recurring theme, as is the effort to eliminate prejudice and misinformation about other religious beliefs. The second semester, which explores Life Choices, begins with a discussion of individual self-growth as it relates to growth in faith. Students examine the major vocational choices facing a person coming to an adult faith: the single life, priesthood or consecrated life, and marriage. The 1st Semester of the course offers Dual Credit in conjunction with Waubensee College's PHL 120 (Comparative Religions) course.

Theology 4

Full Year Required Course – Seniors
All seniors in Theology 4 will take the World Religions course during 1st Semester:

World Religions (NCAA): This semester-long course explores a comparison between the teachings of the world's major religions. Students will contrast Catholic beliefs with a survey of religious teachings from around the world. Using Ninian Smart's Seven Dimensions of Religion, students will debate and discuss the spiritual truths found in both Eastern and Western religions. Students will explore the concepts of universal/objective truth, natural law, dualism, the understanding of right and wrong, understandings of death and salvation, and differing concepts of God. Particular attention will be paid to indigenous religions, Hinduism, Buddhism, Judaism, Islam, and modern religious beliefs (including cults, witchcraft, and new religious movements).

Seniors will then choose from one of the following options for their 2nd Semester elective to fulfill their senior Theology requirement:

- **Classic Theological Questions** (3991): The Wisdom writings arguably form the most philosophically-oriented division of the Hebrew Scriptures, concerned with such fundamental issues as the problem of evil, our human nature and purpose, and our ultimate destiny. The themes in the Wisdom Literature run from the mundane (e.g., how to treat spouses, and host dinner parties) to the moral (how to live a good life, and to what extent it matters), to the transcendent (the connection between morality and wisdom and eternal life). No section of the Hebrew Scriptures

is more attuned to the problems of everyday life, and no set of biblical texts confronts the challenges of living in a complex and deeply confounding world in such a subtle way. The student of the human condition will find these texts an endless source of growth and wonder.

- **Apologetics (3992):** This course will help students work to understand and defend religious truths and doctrines of the Catholic faith. In particular, this course focuses on contemporary issues within Catholicism and works towards developing a clear and concise understanding of Catholic teaching. This is done through a survey of Catholic writings as well as a review of teachings of the Catholic Catechism. Topics discussed include the trinity, natural law, purgatory, end times, original sin, and a variety of “hot-button” topics such as the Church and science, the crusades, and the papal inquisition.
- **Liturgy, Sacraments and Prayer (3993):** This course focuses on the history and the current state of Catholic liturgy. Students learn about each aspect of liturgy and the various roles of the laity and the clergy play within the mass. Students also learn the historical roots and the importance of sacramental practices within the Church. In addition, this course will focus on attention to different prayer styles including petitions, thanks and praise, meditation, and scripture. Students will build on the study of St. Benedict work to incorporate aspects of Benedictine spirituality into their daily lives.
- **Theology of Life and Exploration of Catholic Writers (3994):** This course focuses on developing a greater understanding of the Christian faith and maintaining it in the modern world. Students will explore the importance of living out their faith not only in their daily lives, but also in their future relationships. A special attention will be given to exploration of major vocational choices adults are faced with. In addition, students will seek a greater understanding of the meaning of Christian discipleship through a survey of and study of Christian writers including Matthew Kelly, Thomas Merton, and C.S. Lewis.
- **Catholic Leadership and Ministry (3995):** [Prerequisite: Application, Interview, Departmental Approval]
Catholic Leadership & Ministry engages students in developing an understanding of the theology, principles, and practices of leadership within Catholic-Christian ministry and service. Students survey Christian perspectives on leadership and develop skills thereof, explore the relationship between Catholic spirituality and active ministry, and examine their individual faith lives and that of the school community. The course combines classroom and experiential learning by forming students into a ministry leadership team which develops and leads faith experiences for the school community such as retreats, prayer services, faith sharing groups, peer mentoring, and service opportunities.

Mathematics

The Math Department seeks to challenge students through an integrated curriculum where skills and concepts are taught in a continuous manner, so that each course is not an isolated learning experience but rather part of a larger process. The goal is to have students well prepared for college and well equipped with critical-thinking and problem-solving skills that they can use in any career choice.

<u>Year</u>	<u>Standard</u>	<u>Accelerated</u>	<u>Double Accelerated</u>
Freshman	Algebra 1*	Geometry (H)	Algebra 2 (H)
Sophomore	Geometry	Algebra 2 (H)	AP/DC PreCalculus
Junior	Algebra 2	AP/DC PreCalculus AP/DC Statistics AP/DC Comp. Sci.	AP/DC Calculus 1 AP/DC Statistics AP/DC Comp. Sci.
Senior	PreCalculus DC Statistics	AP/DC Calculus 1 AP/DC Statistics AP/DC Computer Science	AP Calculus 2 AP/DC Statistics AP/DC Computer Science

**Students may be placed into Algebra 1, Algebra 1 Enhanced, or Algebra 1 Honors.*

- Placement is determined by the Marmion Math Placement Exam (see page 3).
- Students can advance from one track to another by taking the Algebra 2 Honors course during the summer at Marmion. Additional opportunities to test out of Algebra 1 and Geometry can be pursued through the Marmion summer program.
- All students are required to have a TI-83/84 graphing calculator.
- All Mathematics courses meet 5 days per week and count for 1 credit unless otherwise noted.

Algebra 1 (4013 - Regular / 4003 - Enhanced / 4010 - Honors)

Full Year Required Course

Regular, Enhanced, or Honors

Course Fee: \$20 copy fee (in lieu of textbook)

Credits = 1.0 (NCAA)

Algebra 1 is the skill building, gateway course to all upper level mathematics. In this class, the students learn to compute accurately, simplify algebraic expressions, write and solve equations, and investigate functions and their graphs. The Algebra skills are modeled in class, and then the students work collaboratively on many practice problems before they demonstrate their understanding through homework sets, quizzes and tests.

Geometry (4313 - Regular / 4310 - Honors)

Full Year Required Course, Honors and Regular

Prerequisite: Algebra 1 or Placement Exam

Credits = 1.0 (NCAA)

Geometry is a course that provides students with opportunities to deepen their understanding of two and three-dimensional objects and their properties. Deductive and inductive reasoning as well as investigative strategies in drawing conclusions are stressed. Properties and relationships of geometric objects include the study of:

(a) points, lines, angles, and planes, (b) polygons, w/ special focus on quadrilaterals, triangles, and right triangles, and (c) circles. Students also develop an understanding of proof and logic through a curriculum that is designed to ultimately have the students approach a problem or real-life situation in a logical way. Class projects and technology, such as graphing calculators, are used to reinforce these concepts and to develop a deeper understanding of the material.

Algebra 2 (4223 - Regular / 4220 - Honors)

Full Year Required Course, Honors and Regular

Prerequisite: Algebra 1 & Geometry

Credits = 1.0 (NCAA)

In Algebra 2, the concepts from Algebra 1 are brought back and studied at a more in-depth level of understanding. Topics include: solving and graphing functions and equations; solving systems of equations; working with matrices and geometric transformations; quadratic equations and parabolas; the complex number system; polynomials; developing the binomial theorem; radical functions and rational exponents; exponential and logarithmic functions; rational functions; the various conic sections; and arithmetic and geometric sequences and series.

Pre-Calculus with Trigonometry (4433)

Full Year Course – JR/SR Elective

Prerequisite: Algebra 2

Credits = 1.0 (NCAA)

Pre-Calculus is designed to prepare students for university-level mathematics, including AP Calculus. Students will be challenged to look at problems from the perspectives of algebra and geometry while being introduced to some concepts of calculus, such as limits and derivatives. This course covers concepts of trigonometry, including the trigonometric functions, identities, vectors, parametric equations and polar coordinates. Other topics include: modeling with polynomial, exponential and logarithmic functions; systems of equations with emphasis on matrices; analytic geometry; and, discrete mathematics (probability, sequences and series). Technology such as graphing calculators and computers will be used to enhance the curriculum. .

Pre-Calculus Advanced Placement/Dual Credit (4445)

Full Year Course – JR/SR Elective

Prerequisite: Algebra 2 Instructor Recommendation / Department Approval / Dir. of Student Academic Services Approval/ Dual Credit Qualification for Honors Course

Dual Credit Qualification: ACT Math Score of 22 or higher (SAT 530 or higher) or attain a passing score on Waubonsee placement testing

Course Fee: \$72 Dual Credit Fee, AP Exam Fee (both fees subject to change)

Credits = 1.0 (NCAA)

Advanced Placement / Dual Credit Pre-Calculus is designed to introduce students to university-level mathematics and prepare them for Calculus. Students will be challenged to look at problems from the perspectives of algebra and geometry while being introduced to some concepts of calculus, such as limits and derivatives. This course covers concepts of trigonometry, including the trigonometric functions, identities, vectors, parametric equations and polar coordinates. Other topics include: polynomial, exponential and logarithmic functions; systems of equations with emphasis on matrices; analytic geometry; and, discrete mathematics (probability, sequences and series). Technology such as graphing calculators and computers will be used to enhance the curriculum. Dual credit is available through Waubonsee Community College for MTH 129/130. At the end of the course, students may take the AP Pre-Calculus Exam, which can potentially earn college credit for college-level Pre-Calculus.

Calculus 1 (4713)

Full Year Course – JR/SR Elective

Prerequisite: Pre-Calculus plus Instructor Recommendation / Dept. Approval

Credits = 1.0 (NCAA)

Calculus 1 is a challenging, upper-level math course that offers students a first-hand look at the deep integration between math and physics. Topics covered include: Limits; Continuity; Rates of Change; Differentiation; Applications of Derivatives (including problems from Physics, Economics, and other fields); Integrals; Differential Equations; Applications of Definite Integrals; and L'Hopital's Rule. Students are given the option to also take the AP Exam at the end of the course.

Calculus 1 Advanced Placement/Dual Credit (4705)

Full Year Course – JR/SR Elective

Prerequisite: Pre-Calculus Honors Instructor Recommendation / Dept. Approval / Dual Credit Qualification

Dual Credit Qualification: ACT Math Score of 28 or higher (SAT 660 or higher) or attain a passing score on Waubonsee placement testing or successful completion (B- or higher) in PreCalculus Honors/Dual Credit

Course Fee: AP Exam Expected (for Seniors only) – Current AP Exam Fee Applies, \$36.00 Dual Credit Fee, \$25 workbook fee

Credits = 1.0 (NCAA)

AP Calculus 1 is a challenging, upper-level math course that offers students a first-hand look at the deep integration between mathematics, science, and industry. Topics covered include: Limits; Continuity; Rates of Change; Differentiation; Applications of Derivatives (including problems from Physics, Economics, and other fields); Integrals; Differential Equations; Applications of Definite Integrals; and L'Hopital's Rule. This course satisfies both the AP Calculus AB curriculum and the Waubonsee Community College Math 131 curriculum. Dual Credit will be offered for this course through Waubonsee Community College for MTH 131. At the end of the course, senior-level students are expected to take the AP Calculus AB Exam, which can earn college credit for one semester of college-level Calculus. Underclassmen students may take the AP exam or wait to take the AP Calculus BC exam.

Calculus 2 Advanced Placement (4720)

Full Year Course – Senior Elective

Prerequisite: AP Calculus 1 Instructor Recommendation / Department Approval

AP Exam Expected – Current AP Exam Fee Applies

Credits = 1.0 (NCAA)

Advanced Placement Calculus 2 is a challenging, upper-level math course that reviews the topics covered in Advanced Placement Calculus 1 in greater depth and detail. In addition, Improper Integrals, Power Series, Taylor

Series, Sequences and Series, Convergence Testing, Parametric Functions, Vectors, and Polar Functions are covered to complete the material for the BC Calculus Exam. Once the material for the BC Calculus Exam is covered, other topics in Multivariable Calculus, Differential Equations, Linear Algebra, Real Analysis, and Discrete Mathematics are explored. Students are expected to take the AP Calculus BC Exam, which can gain college credit for two semesters of college-level calculus. The AP Calculus BC Exam score includes a Calculus AB subscore.

Statistics Dual Credit (4925)

Full Year JR/SR Elective

Prerequisite: Algebra 2 / Dual Credit Qualification

Dual Credit Qualification: ACT Math Score of 22 or higher (SAT 530 or higher) or attain a passing score on Waubonsee placement testing

Course Fee: \$36.00 Dual Credit Fee

Credits = 1.0 (NCAA)

This course is the regular, non-honors, non-AP equivalent of the course listed below. The same topics will be covered, but not to the same level of depth as the AP course. Students taking this course still have the option of taking the AP Statistics exam, but it is not an expectation. Dual Credit Statistics is a course that explores four main areas of the subject: organizing data, designing data collection, probability, and inference. Students learn to use computers and graphing calculators to assist them in their work. They solve statistics problems using real data collected by real statisticians to discover relationships in science, medicine, sports, social sciences, and everyday living. This course offers Dual Credit through Waubonsee Community College for MTH 107, which satisfies the gen-ed math requirement for most non-math/science college majors.

Statistics Advanced Placement/Dual Credit (4915)

Full Year JR/SR Elective

Pre-requisite: Algebra 2 Instructor Recommendation/Department Approval/Dual Credit Qualification

Dual Credit Qualification: ACT Math Score of 22 or higher (SAT 530 or higher) or attain a passing score on Waubonsee placement testing

AP Exam Expected – Current AP Exam Fee Applies

Course Fee: \$36.00 Dual Credit Fee

Credits = 1.0 (NCAA)

Advanced Placement Statistics is a course that explores four main areas of the subject: organizing data, designing data collection, probability, and statistical inference. Students learn to use computers and graphing calculators to assist them in their work. They solve statistics problems using real data collected by real statisticians to discover relationships in science, medicine, sports, social sciences, and everyday living. This course satisfies both the AP Statistics curriculum and the Waubonsee Community College Math 107 curriculum for Dual Credit. Students are expected to take the AP Statistics Exam at the end of the course.

Computer Science Advanced Placement/Dual Credit (4815 = Normal / 4816 = J Period)

Full Year Course – JR/SR Elective

Offered either as a normal elective or during J Period (Mon-Fri, 7:00-7:44am)

Prerequisite: Algebra 2 Instructor Recommendation/Department or Director of Student Academic Services Approval

AP Exam Fee: Current AP Exam Fee Applies

Course Fee: \$40.00 + Dual Credit Fee: \$195.00 (Paid directly to Loyola)

Credits = 1.0 (NCAA)

Advanced Placement Computer Science emphasizes object-oriented programming methodology with an emphasis on problem solving and algorithm development and is meant to be the equivalent of a first-semester introductory college course in computer science. Students learn the basics of computer programming through the use of JAVA computer language and compilers. This course satisfies both the AP Computer Science curriculum and the Loyola University COMP 170 curriculum for Dual Credit. Students are able to take the AP Computer Science Exam at the end of the course.

Science

Three science classes are required for graduation of which two are laboratory based. Students are encouraged to exceed the minimum science requirement. All courses meet 5 days per week and count for 1 credit unless otherwise noted.

The Marmion science curriculum is individualized for personal interests, aptitude and deeper conceptual development while fulfilling all required Illinois State and National science core standards.

Biology (5223)

Full Year Required Course – Freshmen

Lab Fee: \$80.00

Credits = 1.0 (NCAA)

Biology covers topics found in the fields of cellular biology, molecular biology, biochemistry, and genetics. This course is built around six key concepts that provide unifying explanations for how and why structures are formed and processes occur throughout the study of biology. One of the major goals of the course is to learn how to recognize and apply biological concepts in everyday life. This is accomplished through daily classroom discussions and laboratory investigations.

Biology Honors (5250)

Full Year Course – Freshmen Elective in place of Biology

Placement according to the Admissions Exam

Lab Fee: \$80.00

Credits = 1.0 (NCAA)

Honors Biology is an advanced biology course that tracks with the AP Biology syllabus. This course is quick paced to allow more in-depth conceptual and laboratory analyses. It is the prerequisite for AP Biology. The course will cover the 4 Big Ideas used in the AP class: The process of evolution drives the diversity and unity of life; Biological systems utilize free energy and molecular building blocks to grow, to reproduce, and to maintain dynamic homeostasis; Living systems store, retrieve, transmit and respond to information essential to life processes; and finally, Biological systems interact, and these systems and their interactions possess complex properties.

Biology Advanced Placement/Dual Credit (5215) - PENDING FINAL APPROVAL

Full Year Course – JR/SR Elective

This course is offered during school years where the first semester year is odd

Prerequisite: Biology, Chemistry

AP Exam Expected – Current AP Exam Fee Applies

Dual Credit Qualification: ACT Math Score of 22 or higher (SAT 530 or higher) or attain a passing score on

Waubonsee placement testing

Course Fee: \$36 Dual Credit Fee, \$98 AP Exam Fee (both fees subject to change)

Lab Fee: \$80.00

Credits = 1.0 (NCAA)

The AP Biology course is designed to be taken by students after the successful completion of a first year course in Biology and a first year course in Chemistry. It aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. The course includes topics regularly covered in a college biology course for majors. This course prepares students to take the AP Biology Exam.

Chemistry (5323)

Full Year Required Course – Sophomores or Juniors

Prerequisite: Biology

Honors and Regular

Lab Fee: \$80.00
Credits = 1.0 (NCAA)

This physical science course emphasizes atomic/molecular structure of matter and how structure explains interactions occurring in the various physical states of matter. Student laboratory work is a “hands-on” experience correlating with the lecture material. Strong mathematic and writing skills are expected.

Chemistry Honors (5350)

Full Year Course – Sophomore Elective in place of Chemistry
Instructor Recommendation / Dept. Approval
Lab Fee: \$80.00
Credits = 1.0 (NCAA)

Honors Chemistry is an advanced chemistry course that tracks with the AP Chemistry syllabus. This course is quick paced to allow more in-depth conceptual and laboratory analyses. It is the prerequisite for AP Chemistry. Topics to be studied involve matter and its properties and changes, atomic structure, periodic table arrangement, ionic and covalent bonds, chemical reactions, stoichiometry, gases, solutions, energy and chemical changes, acids and bases reactions, redox reactions, electrochemistry, and fundamentals of nuclear chemistry.

Chemistry Advanced Placement/Dual Credit (5315) - PENDING FINAL APPROVAL

Full Year Course – JR/SR Elective
This course is offered during school years where the first semester year is even
Prerequisite: Biology, Chemistry, Instructor Recommendation / Dept. Approval
AP Exam Expected – Current AP Exam Fee Applies
Dual Credit Qualification: ACT Math Score of 22 or higher (SAT 530 or higher) or attain a passing score on Waubonsee placement testing
Course Fee: \$36 Dual Credit Fee, \$98 AP Exam Fee (both fees subject to change)
Lab Fee: \$80.00
Credits = 1.0 (NCAA)

The Advanced Placement Chemistry course is designed to be taken by students after successful completion of a first year course in Chemistry and a first year course in Biology. Students gain a deep understanding of fundamental chemical concepts. Understanding these concepts will prepare the student to be successful in a first year college Chemistry course and to take the AP Chemistry Exam.

Physics (5423)

Full Year Course – JR/SR Elective
Prerequisite: Biology, Chemistry, Completed or currently enrolled in Algebra 2
Lab Fee: \$80.00
Credits = 1.0 (NCAA)

This course is designed to provide a fundamental working knowledge of the theories of Physics. Necessary mathematical skills are taught and integrated in course material. A historical development of topics puts contemporary physics in context. Laboratories emphasize further conceptual refinement through hands-on experience and computer simulation modeling. Topics will be presented at an introductory freshman college physics level.

Physics Honors (5450)

Full Year Course – JR/SR Elective in place of Physics
Prerequisite: Biology, Chemistry, Completed or currently enrolled in Honors Pre-Calculus
Lab Fee: \$80.00
Credits = 1.0 (NCAA)

This course is designed to provide a fundamental working knowledge of the theories of Physics. Necessary mathematical skills are taught and integrated in course material. A historical development of topics puts contemporary physics in context. Laboratories emphasize further conceptual refinement through hands on experience and computer simulation

modeling. This is an Advanced Placement Physics preparation course; topics will be presented as an introductory AP Physics course.

Physics Advanced Placement (5410)

Full Year Course – SR Elective

Prerequisite: Calculus (completed or currently enrolled), Honors Physics, Instructor Recommendation / Dept. Approval

AP Physics C – Mechanics Exam Expected – Current AP Exam Fee Applies

Lab Fee: \$80.00

Credits = 1.0 (NCAA)

The Advanced Placement Physics course is to be taken by students after successful completion of Honors Physics. Throughout the course, students will explore the following areas of mechanics: kinematics, Newton's laws of motion, work, energy, power, linear momentum, circular motion and rotation, oscillations and gravitation. Calculus is used throughout in coordination with student texts. Laboratories emphasize further conceptual refinement and application through student led experimental design and exploration. Students are expected to take the AP Physics C – Mechanics exam at the end of the course. When time allows, concepts of AP Physics C - Electricity & Magnetism will be covered. The AP Physics C - Electricity & Magnetism exam will be optional (additional exam cost will apply).

Anatomy/Physiology (5733)

Full Year Course – Senior Elective

Approval of Director of Student Academic Services

Lab Fee: \$40.00

Credits = 1.0 (NCAA)

This course is designed primarily for those students interested in a related profession pertaining to the human body. Emphasis is on the appearance, structure and location of body systems. Emphasis is also on the function and processes of each body system.

Geology (5831)

One Semester Course (1st Semester) – JR/SR Elective

Meets 5 days per week

Credits = 0.5 (NCAA)

In this one semester course, students study the general formation of the earth and the earth's history. Students will be able to identify certain rocks, minerals, and fossils. Earthquakes, volcanoes, weathering, and erosion are also studied as they pertain to the earth.

Astronomy (5812)

One Semester Course (2nd Semester) – JR/SR Elective

Meets 5 days per week

Credits = 0.5 (NCAA)

This lab course covers the general history of astronomy with an emphasis on galaxies, constellations, time and time travel. The origin of the solar system and the evolution of the earth and its atmosphere are also studied.

Science Research (5921/5922)

One Semester Course: Junior/Senior Elective

Can be taken in either semester or for the full year

Credits = 0.5

Prerequisites: Must meet requirements of Honors Research Program

Lab Fee: \$120.00

Credits = 1.0

Students develop, with the assistance and guidance of instructors, an independent research project to include a written and oral report to be submitted to the entire Science Department by the last week of the semester. Students seek to integrate Math & Science into their thesis on a contemporary topic. This is considered an elite level of learning and will be handled with formality to include family and audience open to the public of which Science Department evaluators are in attendance.

Engineering Research (5931/5932)

One Semester Course: Junior/Senior Elective

Credits = 0.5

Prerequisites: Must meet requirements of Honors Research Program

Lab Fee: \$120.00

Credits = 0.5

Students develop, with the assistance and guidance of instructors, an independent research project to include a written and oral report to be submitted to the entire Engineering Department by the last week of the semester. Students seek to integrate Math, Science and Engineering into their thesis on a contemporary topic. This is considered an elite level of learning and will be handled with formality to include family and audience open to the public of which Engineering Department evaluators are in attendance.

Engineering Design: Option A (I Period - 7010 / J Period - 7060)

Full Year Course (Honors / No Dual Credit) – FR/SO/JR/SR Elective

Meets 3 periods per week for full year during I Period or J Period

Prerequisite: 4.00 GPA or Department/Counselor approval

Fees: \$200.00 (for 1-year SolidWorks and SolidProfessor licenses), plus an (optional) Amazon Workspace for the cost of \$200.00 per semester

Credits = 0.5 (also satisfies the fine arts credit requirement)

Engineering Design is course where students will learn to use “SolidWorks”, a 3D Computer Aided Design software program used by Designers and Industrial Engineers. Students will learn the fundamental skills to make parts, assemblies and drawings. Students interested in any area of Engineering or Product Design will benefit from this course. Students will work toward earning a Certified SolidWorks Associate (CSWA) certificate. The CSWA test will be offered at the end of the course and required for AED1. Students must have a computer that meets the requirements of the SolidWorks program or purchase an Amazon Workspace (an option available through the Marmion Academy Engineering Department).

Engineering Design: Option B (7051)

One Semester Course (Honors / No Dual Credit) – SO/JR/SR Elective

Meets 5 days per week during 1st Semester

Prerequisite: 4.00 GPA or Department/Counselor approval

Fees: \$200.00 (for 1-year SolidWorks and SolidProfessor licenses), plus an (optional) Amazon Workspace for the cost of \$200.00 per semester

Credits = 0.5 (also satisfies the fine arts credit requirement)

Engineering Design is a course where students will learn to use “SolidWorks”, a 3D Computer Aided Design software program used by Designers and Industrial Engineers. Students will learn the fundamental skills to make parts, assemblies and drawings. Students interested in any area of Engineering or Product Design will benefit from this course. Students will work toward earning a Certified SolidWorks Associate certificate. The CSWA test will be offered at the end of the course and required for AED1. Students must have a computer that meets the requirements of the SolidWorks program or purchase an Amazon Workspace (an option available through the Marmion Academy Engineering Department).

Applied Engineering Design 1: Option A (7020)

Full Year Course (Honors) – SO/JR/SR Elective

Meets 3 periods per week for full year during I Period

Prerequisite: 4.00 GPA or Department/Counselor approval, Engineering Design, and a CSWA certificate
Fees: \$200.00 (for 1-year SolidWorks, SolidProfessor and CAE licensing), plus an (optional) Amazon Workspace for the cost of \$200 per semester
Credits = 0.5 (also satisfies the fine arts credit requirement)

Applied Engineering Design 1 is a course where students will build on skills from Engineering Design using “SolidWorks”, a 3D computer aided design software program used by designers and industrial engineers. Students will learn the intermediate modeling skills necessary to pass the three-segment Certified SolidWorks Professional (Mechanical) exam, Certified SolidWorks Associate Additive Manufacturing (3D Printing) exam, and Certified SolidWorks Drawing Tools Professional exam, taken at the end of the course. The CSWP exam asks skilled users to demonstrate that they know how to build clean mechanical part models with design intent because they have carefully planned for future revisional changes in their part models. Students interested in any area of Engineering or product design will benefit from this course. Students must have a computer that meets the requirements of the SolidWorks program or purchase an Amazon Workspace (an available option through the Marmion Academy Engineering Department).

Applied Engineering Design 1: Option B (7061 - 1st Sem / 7052 - 2nd Sem)

One Semester Course (Honors) – SO/JR/SR Elective
Meets 5 days per week during either 1st or 2nd Semester
Prerequisite: 4.00 GPA or Department/Counselor approval, Engineering Design, and a CSWA certificate
Fees: \$200.00 for 1 year SolidWorks, SolidProfessor and CAE licensing (\$50.00 if SolidWorks and SolidProfessor licenses were already purchased during 1st Semester), plus an (optional) Amazon Workspace for the cost of \$200.00 per semester
Credits = 0.5 (also satisfies the fine arts credit requirement)

Applied Engineering Design 1 is a course where students will build on skills from Engineering Design using “SolidWorks”, a 3D computer aided design software program used by designers and industrial engineers. Students will learn the intermediate modeling skills necessary to pass the three-segment Certified SolidWorks Professional (Mechanical) exam, Certified SolidWorks Associate Additive Manufacturing (3D Printing) exam, and Certified SolidWorks Drawing Tools Professional exam, taken at the end of the course. The CSWP exam asks skilled users to demonstrate that they know how to build clean mechanical part models with design intent because they have carefully planned for future revisional changes in their part models. Students interested in any area of Engineering or product design will benefit from this course. Students must have a computer that meets the requirements of the SolidWorks program or purchase an Amazon Workspace (an available option through the Marmion Academy Engineering Dept).

Applied Engineering Design 2, 3, 4 & 5 (Marmion CPARC Program): Option A

(AED2 - 7030, AED3 - 7040, AED4 - 7050)

Full Year Course (Honors / No Dual Credit) – JR/SR Elective
Meets 3 days per week for full year during I Period
Prerequisite: Previous Applied Engineering course by number (if applicable); CSWA Certificate; Applied Engineering Design 1; Algebra 2 and Physics are highly recommended but not required.
Fees: \$200.00 for CAE, SolidWorks, and SolidProfessor licenses, plus an (optional) Amazon Workspace for the cost of \$200.00 per semester
Credits = 0.5 (also satisfies the fine arts credit requirement)

In the Applied Engineering Design 2-5 course sequence [the Marmion CPARC program] students work on simulation prototyping jobs for local, national and international companies utilizing multiple skills in engineering and interpersonal communication. This course sequence requires dedication and personal initiative. Students will be communicating directly with company engineers on their projects and graded for their business and interpersonal team communication skills. In turn, the companies reward students with formal letters of recognition of work done for submission of feasible project designs. These letters are highly influential in helping students obtain college acceptance, increased scholarship funding and career opportunities. Students must have a computer that meets the requirements of the SolidWorks program or purchase an Amazon Workspace (an option available through the Marmion Academy Engineering Department).

Applied Engineering Design 2, 3, 4 & 5 (Marmion CPARC Program): Option B

1st Sem = AED1 7061 / 2nd Sem = AED2 7062

1st Sem = AED2 7071 / 2nd Sem = AED3 7072

1st Sem = AED3 7081 / 2nd Sem = AED4 7082

1st Sem = AED4 7091 / 2nd Sem = AED5 7092)

One Semester Course (Honors / No Dual Credit) – JR/SR Elective

Meets 5 days per week for 1 Semester

Prerequisite: Previous Applied Engineering course by number (if applicable); CSWA Certificate; Applied Engineering Design 1; Algebra 2 and Physics are highly recommended but not required.

Fees: \$100.00 for CAE, SolidWorks, and SolidProfessor licenses, plus an (optional) Amazon Workspace for the cost of \$200.00 per semester

Credits = 0.5 (also satisfies the fine arts credit requirement)

In the Applied Engineering Design 2-5 course sequence [the Marmion CPARC program] students work on simulation prototyping jobs for local, national and international companies utilizing multiple skills in engineering and interpersonal communication. This course sequence requires dedication and personal initiative. Students will be communicating directly with company engineers on their projects and graded for their business and interpersonal team communication skills. In turn, the companies reward students with formal letters of recognition of work done for submission of feasible project designs. These letters are highly influential in helping students obtain college acceptance, increased scholarship funding and career opportunities. Students must have a computer that meets the requirements of the SolidWorks program or purchase an Amazon Workspace (an option available through the Marmion Academy Engineering Department).

About the Marmion CPARC Engineering Program

Marmion CPARC is the “Computational Prototyping And Research Center” located at Marmion Academy. Marmion CPARC is an engineering program for business/education collaboration opportunities. Students must be enrolled in an Applied Engineering Design course AND have a CSWA certification to work on company projects. Marmion CPARC offers students, outside businesses and educational associates a collaborative learning/research atmosphere for tackling real world problems. Students are rewarded with letters of recognition from businesses for any collaborative work performed. Solving these problems affords students an opportunity to see their hard work and dedication in the STEAM fields translate into college/career success. See our website for additional information.

Fine and Performing Arts

Marmion-Rosary Band (7510 - Honors / 7513 - Regular)

Full Year Course – All Level Elective

Meets 5 days per week 6:55 AM – 7:40 AM

Honors and Regular

Credits = 1.0

Course Fee: \$85 uniform fee for all students, additional \$100 for Rosary student lessons taken with a Marmion provided instructor, \$50 per semester instrument rental fee for students using school instruments (this fee goes toward maintenance and repairs), other fees assessed as incurred*

Requirements: 1) Mandatory participation in Music Booster fundraisers.

2) Private lessons with course instructor or pre-approved instructor.

The Marmion Rosary Band is open to students enrolled at Marmion Academy and Rosary High School. It is the “umbrella organization” from which the marching band, wind ensemble and concert band are derived. Student skill levels vary from the beginning level to the advance/college preparatory level. Enrollment in the Marmion Rosary Band includes a weekly private or group lesson for every student. Marmion students will be provided a lesson during the student’s study hall period, and Rosary students will work with the band director to schedule their lesson time.

Students in the band program will meet five days a week Monday through Friday. Mondays and Fridays are designated

Marmion Rosary Band rehearsals and Tuesdays, Wednesdays and Thursdays are usually Wind Ensemble (WE) and Concert Band (CB) rehearsal days. Placement in WE and CB is determined by audition, which is usually held in mid-October. All students are expected to play 12 major scales, demonstrate appropriate tone production, articulation and technical dexterity, through the use of assigned etudes and sight-reading excerpts.

To receive honors credit for band, students will need to complete 4 additional honors credits. Options include research paper, composition, solo and ensemble performances, and participation in other performance ensembles. More details for the honors credits are outlined in the course syllabus.

Marmion-Rosary Jazz Ensemble (7523)

Full Year Course – All Level Elective

Meets 2 days per week (Mon/Wed, 6:00 PM – 7:00 PM)

Credits = 0.5

Course Fee: assessed as incurred *

Requirements: 1) Audition required for participation.

2) Must be part of the Marmion-Rosary Band or play requisite instrument.

The Marmion-Rosary Jazz Band provides the opportunity to perform and learn about American Jazz Traditions. Jazz styles to be covered include Blues, Ragtime, Stride, Dixieland, Swing, Bebop, Latin, Fusion, and Afro-Cuban. This band performs four school concerts and participates in area adjudicated jazz festivals. Additionally, the Jazz Band may perform on occasion at feeder schools and/or gala events.

Marmion-Rosary Jazz Combo (7524)

Full Year Course – All Level Elective

Meets 2 days per week (Tue/Thu, 7:00 PM – 7:30 PM)

Must be a member of the Marmion-Rosary Jazz Ensemble

Credits = 0.0

Requirements: 1) Audition required for participation.

2) Must be part of the Marmion-Rosary Jazz Band or play requisite instrument.

The Marmion-Rosary Jazz Combo provides the opportunity further explore improvisation and spontaneity in performance. A fundamental understanding of harmony, style and the use of melody to form motifs are fundamental and will be further expounded upon in this course. This ensemble performs four school concerts and participates in area adjudicated jazz festivals.

Rosary-Marmion Chamber Orchestra (7533)

Full Year Course – All Level Elective

Meets at Rosary High School on Tuesday/Thursday mornings from 7:00-7:50 AM

Transportation Provided

Credits = 0.5

This course is open to Rosary and Marmion string players. The combined orchestra meets from 7:00-7:50 AM in the Rosary Music Room. Chamber Orchestra is a performance-based class designed to reinforce the fundamentals of playing and to expand and develop musical skills both as a solo instrumentalist and as a member of the ensemble. The ensemble performs a variety of musical styles to achieve these goals.

This group performs at four departmental concerts, Fine Arts Dinner Theatre, Candlelight Ball, Graduation, and at our feeder schools during the fall and at Christmas time. Participation in IMEA auditions and the IHSA Solo and Ensemble Contest are strongly encouraged. Members also have the option to be in the pit for the Rosary fall musical. Private lessons outside of school are recommended. Members should have the desire to learn and have fun, possession of own instrument, and previous training on that instrument.

Chorus 1 (7610 - Honors / 7613 - Regular)

Full Year Course – All Level Elective

Meets 3 days per week during I Period

Honors and Regular

Credits = 0.5

Course Fee: \$85.00 Entry Fee for the original semester to cover concert uniform

Fees such as, field trips, replacing lost or damaged music/materials etc. are assessed as incurred. Participation in Chorus also requires mandatory participation in Music Boosters fundraising.

The Marmion Men's Chorus principle means of instruction is through the study, rehearsal, and performance of the finest musical literature appropriate to the level of the students. The curriculum provides knowledge and understanding of musical forms, styles, western composers representative of each musical period and genre, and music of varying cultural influences. Through performance of authentic musical literature, students will gain an appreciation for music's influence on culture and the contributions of all cultures to the world of music. Over a four-year curriculum, students will enjoy applying a growing knowledge of music theory, aural skills, and vocal technique in a fun collaborative environment that supports a growth mindset through the joy of music.

The Honors Chorus is for students in the Marmion Men's Chorus who wish to earn honors credit through additional participation and assessments demonstrating the student's musical aptitude, leadership abilities, and dedication to the art. Students must meet the requirements outlined in the *Choral Handbook* in order to earn the honors credit.

Additionally, the choirs serve the school community in its support of the liturgy with music.

Chorus 2 Honors (7620)

Full Year Course – SO/JR/SR Elective

Prerequisite: Students must audition and be accepted into this course ensemble

Meets 5 days per week and/or an additional period per week

Credits = 1.0 (Honors)

Course Fee: Fees such as uniform rental, music, accompanist, awards, field trips etc. are assessed as incurred.

Participation in Chorus also requires mandatory participation in Music Boosters fundraisers.

Chorus 2 is for the student who wishes to build his musicianship skills further, to improve in vocal technique, and to perform more advanced literature; he will participate in competitions and festivals and take on leadership roles within the Marmion Men's Chorus. This is the premier singing ensemble of Marmion Academy; students are expected and prepared to sing at certain special occasions and community events. This small ensemble is devoted to performing the finest literature for the Men's vocal genre and competing at a superior level. Students participate in a solo and ensemble competition where they will perform a solo suited to his voice in preparation for collegiate ensemble auditions. This is an auditioned group; students must sing a prepared piece, sight read an exercise, and perform tonal skills. Additionally, for students to be accepted within the group, their voice part and schedule must fit. It is recommended that students who wish to join the ensemble agree to take a summer school course in order to create room in one's schedule for this course.

Music Appreciation (7411 / 7412)

One Semester Required Course for all Sophomores

Meets 2 days per week for the full year

Credits = 0.25

This course is designed to acquaint students with the elements of music and the primary musical periods of traditional Western European classical music, popular music, and World Music. Students will gain an appreciation for music's influence on culture and the contributions of all cultures to the world of music. The course culminates with a student composition incorporating the elements of music as learned through the study of a diverse assortment of musical literature. The purpose of the class is to promote critical thinking, problem solving, introduce music/technology, promote communication, enhance life-long learning, promote effective citizenship, and educate students in global/multicultural awareness.

Music Appreciation for the Musician/Performer (7421 / 7422)

One Semester Course – Sophomore Elective (in place of Music Appreciation)

Prerequisite: Students must audition and be accepted into this course

Meets 2 days per week for the full year

Credits = 0.25

Requirements: 1) For students in band, chorus, drama productions, or requisite musical background.
2) Must demonstrate basic knowledge of rhythm, pitch, and clef.

Musicianship for Musicians/Performers is for the serious music students who may wish to pursue advanced music opportunities at Marmion or college. Building on basic skills, students will expand their knowledge of the elements of music, primary musical periods of traditional Western music, and aural and rhythmic dictation. The study of various music genres will promote critical thinking and problem solving, enhance life-long learning, promote effective citizenship and expose students to the best of Western music traditions.

Music Technology (7711)

One Semester Course – JR/SR Elective

Meets 5 days per week during the 1st Semester

This course is offered during school years where the first semester year is even.

Credits = 0.5

This project-based course is designed for students who are interested in music and/or the music industry. Students need not have previous experience in music to fully participate in this course. Students explore the world of digital music, using software and MIDI controllers to sample, loop, manipulate, and compose one's own pieces meeting criterion to accelerate his compositional skills in form, texture, language, musicianship. Additionally, students learn business skills and knowledge pertinent to the music industry such as marketing, negotiating contracts, copyright law, management, record producing, and supply and demand.

Film Production (7932)

Semester Course – JR/SR Elective

Meets 5 days per week during 1st Semester

This course is offered during school years where the first semester year is odd.

Credits = 0.5

Course Fee = \$50.00

Students participate via projects such as commercials, interviews, documentaries, and short movies, through which students learn the fundamentals of film: storyboarding, capturing sound, lighting, and frame composition and camera motion. Students import their footage into editing software whereupon they learn quality editing techniques and effects such as green screen, overlapping, voiceover and more. Students are assessed on the quality of their work and participation within the group projects.

Music Theory Advanced Placement (7410)

Full Year Course - JR/SR Elective

Credits = 1.0

Instructor Recommendation/Department Approval/Pretest may be required

AP Exam Expected – Current AP Exam Fee Applies

This is an advanced one-year course devoted to developing theoretical and analytical musical skills. The curriculum has components of music history, sight singing and ear training, composition, and provides the harmonic and melodic materials necessary for composition and musical analysis.

Art Appreciation (7111 / 7112)

One Semester Required Course for all Freshmen
Meets 2 days per week
Credits = 0.25
Course Fee: \$40.00

This course is an introduction to the visual arts including basic drawing and design. Students are introduced to studio projects, supported by historical and contemporary art examples. Art elements and principles are applied and discussed in regard to drawing, printmaking, and beginning ceramics. This course is designed as an introduction to the offerings in the Art Department.

Art Exploration (7263)

Full Year Course – JR/SR Elective
Meets 2 days per week in the Mixed Period
Meets 3 days per week during I Period
Credits = 0.50
Course Fee: \$60.00

This course is intended for those students with limited time in their schedules, but wish to explore various art forms. *Art Exploration students experiment with multiple mediums (clay, drawing, printmaking) and are introduced to contemporary artists whose practices focus on community. 2nd semester will focus on a collaborative piece addressing the Marmion community as well as individual projects determined by student input.*

Art History 1: Pre-History to 1900 (7121)

One Semester Course – JR/SR Elective
Meets 5 days per week during 2nd Semester every other year
This course is offered during school years where the first semester year is even.
Credits = 0.5

This course is a historical survey of the visual arts ranging from Prehistoric to Romanticism. Selected works of painting, sculpture, and architecture are studied in relation to the cultures that produced them. Students are introduced to work of the Prehistoric, ancient Greek and Roman and Medieval periods. Students explore the classical styles of the Renaissance, the innovative styles of the Baroque. Lectures feature images of artwork, excerpts from literature, and relevant connections to current issues and events.

Art History 2: 1900 to Contemporary (7122)

One Semester Course – JR/SR Elective
Meets 5 days per week during 2nd Semester every other year
This course is offered during school years where the first semester year is odd.
Credits = 0.5

The semester begins with the Rococo style and then examines the large cultural shifts and technological developments of the Age of Enlightenment as it shaped art and culture in the 19th and 20th centuries. Art History is a field and discipline that studies specific time periods and cultures. In this course, students recognize the differences between Modernity, Postmodernity, and what is considered Contemporary art today. Lectures feature images of artwork, excerpts from literature, and relevant connections to current issues and events.

Painting (7141)

One Semester Course – JR/SR Elective
Meets 5 days per week during 1st Semester every year
Credits = 0.5
Course Fee: \$60.00

Painting is an introductory course covering the basic principles and techniques of the painting process. Beginning

painting fundamentals includes: value, color theory, mixing paints, mediums and using various surfaces. The instructor helps each student engage strategies for conceptual development by working through individual painting problems and emphasizing personal meaning and relevance to contemporary culture.

Ceramics (7271 / 7272)

One Semester Course – JR/SR Elective (Offered both 1st and 2nd semesters)
Credits = 0.5
Dual Credit Fee Applies
Course Fee: \$60.00

Students create works of art in clay utilizing the processes of hand building, molds, pottery wheel techniques, slip and glaze techniques, and the kiln-firing process. Additionally, students reflect upon the outcome of classroom experiences, exploring cultural and historical connections. They will journal the process, participate in regular critiques, and work individually and in groups.

Digital Design (7331)

One Semester Course – JR/SR Elective
Meets 5 days per week during 1st Semester
Credits = 0.5
Course Fee: \$40.00

This course is designed to give students an understanding of how to use Photoshop to perform many different image-processing techniques. Through project work, students will learn how to use several tools for selecting, retouching images, layers, special filters, painting, digital photography and animation. Students will be encouraged to take the ACA exam (for an additional fee) at the end of the semester.

Web Design (7332)

One Semester Course – JR/SR Elective
Meets 5 days per week during the 2nd Semester
Credits = 0.5
Course Fee: \$40.00

Web Design is an introduction to the design, creation, and maintenance of web pages and websites. Students learn how to critically evaluate website quality, learn how to create and maintain quality web pages, learn about web design standards and why they are important, and learn to create and manipulate images. The course progresses from introductory work on web design to a culminating project in which students design and develop websites for personal or business use.

Basic Drawing 1 Dual Credit (7171)

One Semester Course – JR/SR Elective
Prerequisite: Instructor Approval
Meets 5 days per week during 1st Semester
Credits = 0.5
Course Fee: \$40.00 + \$36.00 Dual Credit Fee

This course encompasses drawing of natural and artificial forms as well as interpretive and inventive processes. Line, shape, value, mass, proportions and volume are explored emphasizing the use of black and white media. The course also includes vocabulary development, individual and class critiques and exposure to contemporary and historical drawings. Dual Credit in conjunction with ART 120 at Waubensee College.

Basic Drawing 2 Dual Credit (7172)

One Semester Course – JR/SR Elective
Prerequisite: Completion of Basic Drawing 1 and Instructor Approval
Meets 5 days per week during 2nd Semester

Credits = 0.5

Course Fee: \$40.00 + \$36.00 Dual Credit Fee

This course is a continuation of Drawing I, with development of skill in representation, interpretation, abstraction and non-objective drawing techniques. Students will explore color theory and application. Emphasis is on the use of charcoal, pastels, colored pencils, ink and collage materials. Course content includes vocabulary development, individual and class critiques and exposure to contemporary and historical drawings. Dual Credit in conjunction with ART 121 at Waubensee College.

**** All Engineering Courses are listed under the Science Department and count as Science credits, but do also count towards fulfilling the Fine Arts requirement.**

Leadership

JROTC Program

The JROTC leadership program is designed to promote leadership development through a study of military organization and skills using the Army JROTC curriculum of Leadership Education and Training (LET). Freshmen and sophomores who choose this program remain with their program choice for one full year. The program selection at the beginning of the junior year is a two-year commitment.

- All JROTC courses meet two days per week in the classroom and two mornings per week in the Regole Field House for formation (MSF), and on average, two formations per month after school (ASF).
- Each course counts for 0.5 credits.
- Annual Uniform Cleaning/Repair Fee: \$25.00
- Military Ball (optional for Juniors and Seniors): \$90.00/couple

JROTC LET 1 (8213)

Full Year Course – Freshmen

This course is an introduction to leadership development and helps motivate cadets to assume leadership positions in today's world and be better citizens. Cadets are familiarized with military courtesy and principles of organization. Students are introduced to basic skills in first aid, map reading, drill and ceremonies, air rifle safety and marksmanship, physical fitness testing, and oral communication. The course provides an overview of citizenship through American history featuring the War Between the States and the history of Marmion Academy.

JROTC LET 2 (8223)

Full Year Course – Sophomores

The main emphasis of the course is leadership development. The course includes theories of leadership, principles of organization, and methods of instruction. American military history is presented on the origins, purpose, and structure of the military services (with emphasis on the United States Army) in support of the nation and its objectives. The course further develops skills in military courtesies and discipline, first aid, map reading, drill and ceremonies, air rifle safety and marksmanship, physical fitness testing, and oral communication.

JROTC LET 3 (8233)

Full Year Course – Juniors

The emphasis of the course is on applied leadership. The interactions between the small-unit leader and his men are emphasized. Upperclassmen are prepared to assume the leadership roles in the Cadet Corps as seniors. Also included are the effects of the leader's actions on discipline, motivation, and morale. Psychology of leadership includes concepts and traits of leadership as related to individual and group behavioral patterns. Additionally, techniques of communication and military history are reviewed.

JROTC LET 4 (8243)

Full Year Course – Seniors

*Optional section offered Tue/Thu during I Period (8244)

This course emphasizes applied leadership and utilization of the battalion organization toward community service and citizenship. The cadets explore contemporary issues and ideas regarding the national and international policies of the United States, constitutional law, and other issues specific to the military. LET 4 emphasizes the cadets' roles as responsible citizens, while developing cadets' personal leadership skills.

Note: The mission of the JROTC program is: "To motivate young people to be better citizens." The JROTC program is not a recruiting tool of the U.S. Army. There is no active or reserve military obligation upon completion of the program.

Leadership Education and Development (LEAD)

LEAD is a four-year program designed to educate students in leadership and communication skills. The principles and values for tomorrow's world must be instilled in students today. The skill-set of a LEAD student includes self-discipline, self-awareness, and self-motivation combined with compassion, kindness, and a genuine care for others. This unique skill-set gives the LEAD student the ability to lead people, manage projects, and be a viable and contributing member of a team. The many theories of leadership are taught in the classroom while the practical application of these theories is practiced through the development and implementation of our many leadership projects. Freshmen and sophomores who choose this program remain with this program choice for one full year. The program selection at the beginning of the junior year is a two-year commitment.

All LEAD classes meet two days per week and count for 0.5 credits.

LEAD 1 (8113)

Full Year Course – Freshmen

This course is an introduction to leadership and serves to establish one of the founding principles of LEAD: In order to lead others, you must first lead yourself. It is designed to be an exploration of personal and interpersonal leadership traits, principles and life-skills. The students will begin a journey of personal discovery and personal responsibility as they examine self-concept, self-awareness, decision-making, goal-setting and peer pressure.

LEAD 2 (8123)

Full Year Course – Sophomores

Sophomore year students continue the construction and development of their personal values system, which is uniquely defined by each individual. These values are practical for the students as they serve as a guide to help students navigate challenging issues. The curriculum covers the methodology of building oneself into a successful leader through an understanding of the core attributes of attitude, vision, and self-discipline. Then utilizing these attributes to affect priorities, influence, and personal growth, one can enhance the ability to creatively solve problems while serving others in order to create positive change.

LEAD 3 (8133)

Full Year Course – Juniors

*Optional section offered Mon/Thu during J Period (8135)

The third year focuses on leading others by utilizing practical leadership principles and skills. Students have the opportunity to apply their skills as they plan and implement on-going training within the LEAD program. Concepts covered are: organizational behavior, teamwork, group dynamics, and the five practices of exemplary leadership.

As students continue their studies in the current text, they will broaden their understanding of the "Five Practices" and the development of their personal leadership style. Students will have multiple opportunities to research, prepare and share information with the class through formal and informal presentations.

The benefits of formal and informal presentations are far-reaching, from enhancing personal communication to the ability to present credible information to a group of people in a confident and professional manner. Other benefits include: enhanced personal knowledge, critical thinking skills, organizational skills, the ability to respond to others in a positive way, listening skills, expanding their personal comfort zone, and creating a pathway to build confidence both now and into the future.

LEAD 4 (8143)

Full Year Course – Seniors

*Optional section offered Tue/Fri during J Period (8145)

Course Fee: \$20 fee for the senior banquet and awards breakfast. \$450 fee for those students electing to do the dual credit option.

The senior course of the LEAD Program is the culmination of a four year study of leadership life-skills. The purpose of this course is to encourage students to carefully analyze their responsibilities and commitments in the context of leadership for the common good and for purposeful change. Students will come to understand the concept of relational leadership and how it differs from traditional leadership theories. This is not the final year of leadership studies, but rather a stepping-stone to the future. It is our hope that during the course of studies we have instilled in our students the value of life-long learning coupled with a desire for personal and professional growth.

Note: This course provides a challenging academic experience to all students; however, qualified students have the opportunity to earn 3 hours of college credit from the University of St. Francis, Joliet, IL.

Physical Education

1.50 credits of PE/Health/Freshmen Skills are required of all students.

Physical Education 1 / Health / Freshmen Skills (8313 / 8413 / 8513)

Full Year Required Course for all Freshmen

Meets 5 days per week (students attend 3 days of PE, 1 day of Health, and 1 day of Freshmen Skills per week)

Credits = 0.5 credits of P.E., 0.25 credits of Health, 0 credits of Freshmen Skills

In the PE component, students acquire movement skills and understand concepts needed to engage in health-enhancing physical activity throughout their lives. Units covered include competing in team sports, individual sports, and developing habits for personal fitness. Objectives in this course include improving overall physical well-being, developing team-building skills by working with others through physical activity, and understanding and applying movement concepts and principles to improve overall motor skills. The Health component guides the students through a wide range of overall health and wellness concerns. Concepts covered may include but are not limited to increasing knowledge of drugs and alcohol, tobacco, nutrition, personal, mental and physical health. Students learn preventative health measures and how to advocate strategies that establish a solid personal health education allowing students to become health literate and to make positive and healthy decisions.

Freshmen Skills is a mandatory class for all freshmen students, in which they learn skills that will be critical to their success here at Marmion. Some of the topics covered include organization, time management, prioritization, note taking, studying, and memory. The course also has pieces that are specific to student life here at Marmion, such as Marmion technology (accessing and navigating PlusPortals, utilizing the print management system here at school, and how to record service hours, etc.). Many of these lessons are also supplemented by the Marmion MENTors, who often come into class to reiterate and expand upon some of the lessons that have been presented to the students. Second semester topics focus on SEL lessons such as stress and anxiety, digital citizenship, bullying, etc.

Physical Education 3/4

Full Year Required Course to be taken during either Junior or Senior year

Meets 2 days per week

Credits = 0.5

Participation in any of the following activities during a student's junior year will qualify the student to apply for a PE waiver, which will award the student 0.5 PE graduation credits, but will not affect the student's GPA:

- Marmion Athletic Teams
- Marching Band
- Drill Team
- Raider Team

To be eligible for a PE Waiver, students must have been actively involved in one or more of the activities listed above.

Students who are not eligible for a PE waiver will be required to choose from one of the electives listed below:

- **Leaders Physical Education: (8393)**

This course introduces the students to the basics of skill analysis, officiating, sportsmanship and the carry over value of team and individual sports.

- **Fitness/Team Sports: (8396)**

Course offered either during mixed period or I Period (8398)

This course allows a student to experience an in-depth variety of team and individual activities, such as soccer, basketball, volleyball, softball, flag football, floor hockey, speedball and flickerball. The Team Sports portion of class will allow a student to get a richer understanding of offense, defense and team strategy. The Fitness portion of the course introduces the students to the basics of fitness and weight training. Students will learn the basics of lifting, spotting, anatomy, cardio training and eating properly to maintain optimal fitness and health. A daily regimen of stretching and fitness will be emphasized.



Marmion Academy Administration

Rt. Rev. Joel Rippinger, OSB, *Abbot*
Anthony Tinerella '84, *President of Marmion Academy*
Joseph Large '97, *Principal*
Fr. Antony Maria Minardi, OSB '08, *Student Chaplain*
Rebecca Cann, *Assistant Principal of Curriculum and Instruction*
Andy Damato '01, *Assistant Principal of Operations and Technology*
David Rakow, *Director of the Academic Center*

Marmion Academy, a Catholic-Benedictine college preparatory high school, is a community dedicated to spiritual formation, academic excellence, and leadership development. Marmion offers students a unique leadership track in addition to a college prep curriculum.

1000 Butterfield Road, Aurora IL 60502 | Phone: 630-897-6936 | Website: www.marmion.org