



MARQUETTE UNIVERSITY HIGH SCHOOL

For Faith, Scholarship and Community

Course Descriptions for Incoming Freshmen 2019-2020

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catalog of courses
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Academics/Academic Courses

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Jesuit Education

Students at Marquette University High School benefit from a Catholic education in the Jesuit tradition. The International Commission on the Apostolate of Jesuit Education (ICAJE) published a document outlining the distinguishing markers of Jesuit schools, *The Characteristics of Jesuit Education*. The following excerpts from this document highlight the guideposts for the curricula and graduation requirements of Jesuit high schools including MUHS.

- A thorough and sound intellectual formation includes mastery of basic humanistic and scientific disciplines through careful and sustained study that is based on competent and well-motivated teaching. This intellectual formation includes a growing ability to reason reflectively, logically and critically.
- While it continues to give emphasis to the traditional humanistic studies that are essential for an understanding of the human person, Jesuit education also includes a careful and critical study of technology together with the physical and social sciences.
- In Jesuit education, particular care is given to the development of the imaginative, the affective, and the creative dimensions of each student in all courses of study. These dimensions enrich learning and prevent it from being merely intellectual. They are essential in the formation of the whole person and are a way to discover God as He reveals Himself through beauty. For these same reasons, Jesuit education includes opportunities -through course work and through extracurricular activities - for all students to come to an appreciation of literature, aesthetics, music and the fine arts.

As a Jesuit school Marquette University High School follows the standards and benchmarks as stated in “Our Way of Proceeding: Standards and Benchmarks for Jesuit Schools in the 21st Century.”



Graduation Requirements

Marquette University High School requires 23 credits for graduation in the following academic areas.

English	4.0 Credits
Fine Arts	0.5 Credits
Mathematics	3.0 Credits
Science	3.0 Credits
Social Studies	3.0 Credits
Theology	4.0 Credits
World Language	2.0 Credits
Service	0.5 Credits
Additional Credits	3.0 Credits

Year courses = 1 credit Semester courses = 0.5 credit

In addition to the academic requirements for graduation, all students must complete the Freshman Retreat, Freshman Fitness Program, Sophomore Retreat, required Service Program volunteer hours in the sophomore and junior years, and the Senior Shared Life Project work and reflection day. All students are expected to be involved in minimally one co-curricular activity each year.

Courses required in a specific year are listed below. Students may complete other graduation requirements by selecting electives as they choose. Students taking four years of science must take one year of physics junior or senior year.

- Freshmen:** English 1, Mathematics, Biblical Literature
- Sophomores:** American Literature, Mathematics, Moral Decision Making, + Sacraments and the Catholic Church
- Juniors:** Two English electives, Mathematics, Church History, + Christian Discipleship
- Seniors:** Two English electives, Theological Seminar, & ½ credit Theology elective



Course Changes & Withdrawal Policy

Student schedules, teaching assignments and hiring decisions are based on the course selection completed by students along with their parents and advisors each spring. Course selection printouts indicate a commitment to complete the courses (or alternate courses) listed on the sheet. The spring course selection process is the FINAL opportunity to make course selection decisions and the student is then committed to completing those courses. As such, it is vital that course preferences are accurate and that course loads are reasonable and balanced. Marquette High recommends that students take six courses per semester, with a minimum of 5.5 credits per year in the freshman, sophomore, and junior year and 5.0 credits in the senior year

Once scheduled, subsequent schedule changes or course withdrawals will be made only by approval of the Assistant Principal for Academics in special circumstances and pending scheduling constraints and availability. Requests for specific teachers cannot and will not be honored. Changes to a student's schedule must be made on the following timeline:

Students may drop courses for the current semester only during the first three weeks of each semester.

Students may add courses for the current semester only up to the third day of the semester.

The school may consider course changes if a student has been placed in a course inappropriate for his background or talent and withdrawals if a student becomes seriously ill or faces unique personal circumstances. Discussions with the Assistant Principal for Academics about moving a student between levels of a course should be initiated by the teacher.



ENGLISH

The comprehensive purpose of the Marquette University High School English Program is to develop students' critical ability to analyze the quality and purpose of the printed page, to appreciate the human values woven into the fabric of enduring literature, and to cultivate students' power of expression, both spoken and written, so that he may communicate his insights clearly and imaginatively.

Every MUHS student must take four years of English. The freshman program introduces the student to basic skills and understandings he will need in order to pursue a college preparatory program successfully. Along with the traditional investigation of literature, study of grammar and writing of paragraphs and essays, the student builds vocabulary, practices efficient study habits and enhances reading comprehension.

The sophomore curriculum is a continuation of the freshman program with the added expectation of greater depth of literary analysis through the study of multiple critical thinking strategies. Course reading includes both foundational and contemporary works of American literature that prepare students for reading at the university level. Additionally, students gain extensive experience in writing academic essays and preparing presentations.

In his junior and senior years, the student chooses from a bank of grade specific electives, that include Advanced Placement, literature and composition options. The learning standards and skill development established in junior year courses are foundational for electives taught at the senior level. All junior and senior level courses require the student to demonstrate critical thinking skills, close examination of both and nonfiction, as well as multiple writing forms that are critically insightful and exhibit clarity, unity, and coherence.

FRESHMAN	English 1
SOPHOMORE	American Literature and Composition
JUNIOR	Choose among: <ul style="list-style-type: none"> • AP English - Language and Composition (Year-long course) • Expository Writing (1 semester) • Poetry as Power (1 semester) • Perspectives in Science Fiction (1 semester) • World Literature (1 semester)
SENIOR	Choose among: <ul style="list-style-type: none"> • AP English - Language and Composition (Year-long course) • Myth and Culture (1 semester) • Advanced Writing Seminar (1 semester) • The Plays of William Shakespeare (1 semester) • Literature of Great Britain (1 semester)

010 English 1

Credit: 1.0

Grades: 9

Two Semesters

Prerequisite: None

Freshman English is designed to provide each student with knowledge of the principles of grammar, standard English usage, and composition. Students are introduced to the study of literature through a variety of genres, including poetry, short stories, drama, novels and non-fiction. Students learn that authors have purpose and intent in creating literature beyond the literal events or descriptions. The course emphasizes vocabulary building and practice, writing effective paragraphs and essays, using proper MLA format, and developing increasingly sophisticated sentence structures and arguments as the year progresses.



STEM: Science, Technology, Engineering & Math

Marquette University High School has a strong tradition of preparing its students for further studies in STEM areas: science, technology, engineering and math. Its requirement that all students complete three years of coursework in each of the math and science departments provides every student with a foundation in these key STEM areas. In fact, over 97 percent of students complete four or more years of coursework in math and science. Elective offerings in Computer Science may build upon this foundation. Marquette High's core curriculum, with a strong emphasis on the humanities, is part of a STEM preparation. Science and engineering schools place much value on students' ability to communicate well in writing, think critically and analyze issues. Creative engagement in the fine arts—whether in music, visual arts, or graphic design—complements STEM preparation.

Students with a strong interest in STEM studies and careers should take a minimum of 4.0 credits (four full years) of both science and math. Taking the most challenging courses in these areas—Honors and AP level courses—may better prepare students for university work in STEM fields. Students with a strong interest in STEM should plan their high school curriculum to include courses in their junior and/or senior years such as: AP Biology, AP Calculus AB, AP Calculus BC, AP Chemistry, Computer Programming, AP Computer Science A, AP Physics 1, AP Physics C, AP Statistics and Multivariable Calculus.

Marquette High offers a number of co-curricular clubs and activities that offer students opportunities to pursue their interest in STEM areas outside of the classroom. Its Engineering and Applied Sciences Club, Math Team, Robotics Team, Science Olympiad Team, SMART Team (molecular engineering) and Environmental Science Club are popular organizations and open to students of all grade levels.



MATHEMATICS

As a college preparatory school, we offer a strong, fundamental college preparatory program in mathematics. The Math Department's goal is to lay a solid foundation in each course so that the student is well prepared for the next course he will take. Since 97% of all students take four years of math, this is critical.

Freshmen are placed in the appropriate course based on previous experience, entrance test scores, and a math placement test given in May. Both the honors track and the college prep track provide strong math preparation for college, however the honors courses cover material at a more challenging level and pace. Successful students may earn college credit in calculus, statistics and/or computer science through the Advanced Placement program.

At a minimum, Marquette requires all students to successfully complete Algebra 1, Geometry, and Algebra 2 for graduation. All students should be aware of the math requirements of the college or university they hope to attend and the requirements for their particular field of interest.

College Prep Path	Advanced College Prep Path	Honors Path	Advanced Honors Path
Algebra 1	Algebra 1 or Honors Algebra 1 and 2	Algebra 1 or Honors Algebra 1 and 2	Honors Geometry / Algebra 2
Geometry	Advanced Geometry	Honors Geometry / Algebra 2	Honors Pre-Calculus
Algebra 2	Advanced Algebra 2 with Trigonometry	Honors Pre-Calculus	AP BC Calculus
Precalculus	Advanced Precalculus or Precalculus	AP AB Calculus or AP BC Calculus	Multivariable Calculus

100 Algebra 1

Credit: 1.0

Grades: 9

Two Semesters

Prerequisite:

Departmental placement

The Algebra 1 course content focuses on developing algebraic fluency and basic skills. Students will solve and graph algebraic equations, and learn to apply them to everyday life situations. Students will develop an understanding of algebra as a life skill for interpreting data, analyzing mathematical situations, rational problem solving and communicating solutions. The majority of our freshmen are placed in this course.

104 Honors Algebra 1 and 2

Credit: 1.0

Grades: 9

Two Semesters

Prerequisite: Departmental placement

Students who demonstrate math talent and proficiency in most Algebra 1 skills are placed in Honors Algebra 1 and 2. The course moves at a rapid pace and introduces advanced topics, including many topics from Algebra 2. These topics may include but are not limited to linear programming, conic sections, synthetic division, imaginary and complex numbers, polynomials, and extensive work with quadratics. Emphasis is placed on solving challenging, higher-level problems.

119 Geometry

Credit: 1.0

Grades: 10

Two Semesters

Prerequisite:

Departmental placement

This course uses the same textbook as both the Advanced and Honors Geometry courses, but moves at a slower pace and does not reach the same depth as the other courses. Geometry covers the definitions, postulates, and theorems of geometry as a mathematical system. Students learn to prove and to apply theorems. Topics include congruence, similarity, polygons, circles, perpendicularity, area, volume, and coordinate geometry. Use of algebra in the solution of geometric problems is emphasized.

125 Advanced Geometry

Credit: 1.0

Grades: 10

Two Semesters

Prerequisite: Approval of current math teacher

This course covers the definitions, postulates, and theorems of geometry as a mathematical system. Students learn to prove and to apply theorems. Topics include congruence, similarity, polygons, circles, perpendicularity, area, volume, and coordinate geometry. Students also complete discovery and computer lab activities. Use of algebra in the solution of geometric problems is emphasized.

130 Honors Geometry/Algebra 2

Credit: 1.0	Students cover the topics of geometry in more depth with an emphasis on deductive reasoning and proof. Students also complete discovery and computer lab activities. During the second semester students begin the study of Algebra 2 topics including trigonometry, linear and quadratic equations and functions, inequalities, factoring and polynomials and rational expressions. A strong emphasis is placed on improving problem solving skills. Two textbooks are used in this course.
Grades: 9, 10	
Two Semesters	
Prerequisite:	
Departmental placement	

148 Honors Precalculus

Credit: 1.0	This course is a continuation of Honors Geometry / Algebra 2. Final topics in algebra and an extensive study of trigonometry are covered, along with functions, logarithms, sequences and series, conics, matrices, polar coordinates, vectors, parametric equations, proof by induction, and an introduction to limits. Two textbooks are used during the year. This is a fast paced and highly rigorous course; students should only enroll if they fully intend to take Calculus..
Grades: 9, 10, 11, 12	
Two Semesters	
Prerequisite: Honors	
Geom/Alg2 and Departmental placement	

166 AB Calculus (Dual Credit available)

Credit: 1.0	This course covers limits and continuity, differential calculus, and many topics in integral calculus. Graphing calculators are used extensively. This course culminates with the AP AB Calculus exam (apx. \$95) in May, a requirement for all students enrolled in this course. Most universities grant credit for one semester of college calculus if the student performs well on this exam.
Grades: 9, 10, 11, 12	
Two Semesters	
Prerequisite: Honors	
Alg 2/Precalc or Adv. Precalc. and Departmental placement	

172 BC Calculus (Dual Credit available)

Credit: 1.0	This course covers the AB Calculus topics plus more advanced techniques in each respective area of study. Second semester BC topics include vectors, parametric equations, polar equations, and sequences and series. Graphics calculators are used extensively. As an equivalent of two semesters of college level calculus, this course culminates with the AP BC Calculus exam (apx. \$95) in May, a requirement for all students enrolled in this course. Students who perform well on this exam usually receive credit for two semesters of college calculus for their efforts. <i>Please note: This class meets for additional time each day. On forward days class begins at 7:40 am and on reverse days ends at 3:30 pm.</i>
Grades: 9, 10, 11, 12	
Two Semesters	
Prerequisite: Honors	
Alg 2/Precalc or Adv. Precalc. and Departmental placement	

174 Multivariable Calculus (Dual Credit available)

Credit: 1.0	Multivariable Calculus is the extension of calculus to more than one variable – the differentiation and integration of functions of several variables. This course builds on the foundations laid in Calculus I and II. Topics include vectors and the geometry of space; vector functions; partial derivatives; multiple integrals; and vector calculus. Time permitting, the course may also include the study of hyperbolic functions, a review of conic sections, and an introduction to differential equations. Students who successfully complete this course with a grade of C+ or better can earn 4 college credits through St. Louis University.
Grades: 9, 10, 11, 12	
Two Semesters	
Prerequisite: BC Calculus	
and Departmental placement	



SCIENCE

The first principle and foundation, from the spiritual exercises of Saint Ignatius of Loyola, emphasizes the following: “All things in this world are gifts of God and presented to us so that we can know God more easily and make a return of love more readily.” We believe the pursuit of science is essential to understanding our world, and inquiring about our world, and therefore bringing us closer to the gifts of God. As such, inquiry-based laboratory work is integral to each science course. Methods of gathering and collating data, interpreting data, and forming logical and justifiable scientific conclusions are emphasized as the cornerstone of scientific investigation.

The Marquette University High School science department believes in providing a respectful, challenging and caring environment for a diverse community of students. Students will engage the natural world in the core science disciplines: biology, chemistry, and physics. Our department offers differentiated courses to address varied needs by offering college prep, honors and Advanced Placement level courses. Although three years of science are required, the majority of students opt for a four year science experience. All students taking a fourth year of science must take a physics course if they have not done so during their junior year. Exceptions to the Physics course requirement may be granted by the Assistant Principal for Academics.

The Science Department deepens students’ awareness of the needs of and dignity of all people. Students learn how to work in collaborative laboratory environments and how to work with a diverse group of student peers. The curriculum encourages and inspires students to use science as a vessel to address the needs and social injustices of humanity. Active Science Olympiad, SMART Team (molecular engineering), Engineering and Applied Sciences, and Environmental Science Outdoors Teams and Clubs provide the highly interested student an additional opportunity to pursue independent research projects, to participate at interscholastic competitions, and to present educational programs to the community.

	COLLEGE PREPARATORY	ADVANCED COLLEGE PREPARATORY
FRESHMAN	Biology	Honors Biology
SOPHOMORE	Chemistry	Honors Chemistry
JUNIOR	Choose among: <ul style="list-style-type: none"> • Environmental Science • Physical Geology • Physics 	Choose among: <ul style="list-style-type: none"> • AP Biology • AP Chemistry • AP Physics I
SENIOR	Choose among: <ul style="list-style-type: none"> • Environmental Science • Physical Geology • Physics (Must take senior year if not taken junior year) 	Choose among: <ul style="list-style-type: none"> • AP Biology • AP Chemistry • AP Physics I • AP Physics C

200 Biology

Credit: 1.0
Grades: 9, 10
Two Semesters
Prerequisite:
Departmental placement

The focus of Biology is to give students an understanding of the patterns that exist throughout living organisms. Topics covered in this course include: the history of biological concepts; complementarity of structure and function; diversity of type and unity of pattern; change of organisms through time; genetic continuity; complementarity of the organism and its environment; regulation and homeostasis; and, the biological basis of behavior. All levels of biological organization are studied from molecule through cells, tissues, organs, individuals, populations, species, communities, and the world biome. In addition, all students are required to research a biological topic of their choice (subject to instructor approval) that has not been extensively covered in the course and to report orally to the class their findings and understanding.

208 Honors Biology

Credit: 1.0
Grades: 9, 10
Two Semesters
Prerequisite:
Departmental placement

The focus of Honors Biology is to give students an understanding of the living world by concentrating on the molecular and cellular levels of organization, and applying these fundamental structural and functional units to the diverse forms of life. Integrating life concepts such as cell structure and function; genetics; meeting energy requirements; maintenance of internal environment; mechanisms of support, growth, and development; and, continuity of form and function are mastered at the molecular level and then applied to the whole organism, plant or animal. Dynamic interrelationships among the varied forms of life are explored, with an emphasis on human interaction in the biological world. The honors course demands a more in-depth approach, a higher level of reading comprehension, and substantial outside reading and research. Current topics in biology, such as recombinant DNA, are investigated. In addition, all students are required to research a biological topic of their choice (subject to instructor approval) that has not been extensively covered in the course and to report orally to the class their findings and understanding. Student placement is determined by the department chair and the Assistant Principal for Academics following a review of entrance scores and grade reports in math and reading.



SOCIAL STUDIES

The Social Studies Department prepares students to become informed, active citizens with knowledge of and a respect for their own cultural and historical heritage and an understanding of and respect for other cultures. Courses explore issues of diversity, global awareness and social justice. Given the MUHS urban environment, students are encouraged to become involved in school and community affairs.

The Social Studies Department merges a variety of disciplines and methodologies. The roots of the department are grounded in history, yet the curriculum introduces a variety of subject areas: cultural studies, economics, geography, political science, psychology and sociology. All of these subjects feature the basic tenets of St. Ignatius: reverence, awareness, responsibility, action and recognition.

Marquette University High School requires that all graduates complete three years of course work in social studies. Most colleges recommend that students complete four years. The three required years of course work must include World History and United States History. To satisfy the third credit required for graduation, students are free to choose from a myriad of electives.

COLLEGE PREPARATORY		ADVANCED COLLEGE PREPARATORY (at least two AP courses)
FRESHMAN	World History	
SOPHOMORE	U.S. History	AP U.S. History
JUNIOR	Choose among: <ul style="list-style-type: none"> • AP Human Geography • AP European History • Introductory Sociology • American Government • International Relations • Comparative Cultures • The 50's and 60's • World Wars • The American Civil War Legacy • History of Milwaukee • Introductory Economics • Advanced Placement Microeconomics • Advanced Placement Macroeconomics 	Choose among: <ul style="list-style-type: none"> • AP Human Geography • AP European History • Introductory Sociology • American Government • International Relations • Comparative Cultures • The 50's and 60's • World Wars • The American Civil War Legacy • History of Milwaukee • Introductory Economics • Advanced Placement Microeconomics • Advanced Placement Macroeconomics
SENIOR	Choose among: <ul style="list-style-type: none"> • AP Human Geography • AP European History • Introductory Sociology • American Government • International Relations • AP Psychology • Comparative Cultures • The 50's and 60's • World Wars • The American Civil War Legacy • History of Milwaukee • Introductory Economics • AP Microeconomics • AP Macroeconomics 	Choose among: <ul style="list-style-type: none"> • AP Human Geography • AP European History • Introductory Sociology • American Government • International Relations • AP Psychology • Comparative Cultures • The 50's and 60's • World Wars • The American Civil War Legacy • History of Milwaukee • Introductory Economics • AP Microeconomics • AP Macroeconomics

300 World History

Credit: 1.0
 Grades: 9, 10
 Two Semesters
 Prerequisite: None

World History is a full year social studies course offered to both freshmen and sophomores which seeks to trace the development of the various cultures of the world beginning with prehistoric times and ending with the modern world. The content of the course focuses on the rise of political, economic and social systems throughout the world, including Europe, Asia, Africa and the Americas. The goal of the course is to acquaint students with the essential developments of world history in order to provide background and basis for further study. Students are expected to read all assigned material, including the textbook, excerpts from historical documents and various related articles. The successful completion of unit assignments, requiring outside research is an essential requirement. Mastery of the material is required as indicated by the completion of regular quizzes and exams. Notebook work, which is checked and updated regularly, develops the student's organization skills. Active participation is essential given the discussion atmosphere of the class. Within the context of the curriculum, students acquire basic research, writing, and presentation skills.



WORLD LANGUAGES

World Language courses fulfill an essential role in the Marquette High mission to educate the whole person. Through study of other cultures and languages, students are invited to develop a loving appreciation for the diversity of God's creation. The department supports the pursuit of scholastic excellence and students' personal responsibility for their continued growth in language proficiency. Research shows many positive cognitive effects of studying a foreign language, including improved memory and enhanced problem-solving skills.

Any student arriving with any middle school foreign language experience is required to take a placement test in May. Students who have grown up speaking Spanish at home should also take the placement exam to determine the most appropriate entry-level Spanish course.

Most students at Marquette High take 3 or more years of a foreign language. All students are required to take 2 consecutive years of the same language. Students who take a third or fourth year of the language regularly score well enough on university language placement exams to qualify for retro-credits and advanced college standing. Students who perform successfully on the AP Spanish Language and/or AP Spanish Literature exams may qualify for additional college credit.

In accordance with the American Council on the Teaching of Foreign Languages (ACTFL) guidelines, the Latin program stresses reading comprehension and cultural knowledge while Spanish and German courses focus on communicative proficiency in reading, listening, speaking and writing, providing students with the linguistic and cultural competence necessary to thrive in an interdependent global community.

To that end, the World Languages curriculum pushes student to explore expressions of language and culture in the Milwaukee community. Additionally, MUHS regularly offers trips abroad and service opportunities where students can fully immerse themselves in the languages and cultures they study.

400 Latin 1

Credit: 1.0
Grades: 9, 10, 11, 12
Two Semesters
Prerequisite: None

Latin 1 is designed as a breakthrough year for students with little or no prior Latin experience. The course provides instruction in the vocabulary, grammar and pronunciation skills necessary to read and translate basic texts in preparation for reading Latin from the Classical Age. An introduction to the culture and geography of the Roman Empire is integrated into the course through novice-level readings and videos.

404 Latin 2

Credit: 1.0
Grades: 9, 10, 11, 12
Two Semesters
Prerequisite: Latin 1 or
Dept. placement

Latin 2 builds upon the basic language proficiency acquired in Latin 1 by expanding each student's vocabulary and grammar base. Students become comfortable with increasingly sophisticated texts in preparation for reading and translating Latin from the Classical Age. Students will also develop a more nuanced appreciation for the history and culture of the Roman Empire.

424 German 1

Credit: 1.0
Grades: 9, 10, 11, 12
Two Semesters
Prerequisite: None

German 1 is designed as a breakthrough year for students with little or no prior German experience. The course, taught in German, provides instruction in the vocabulary, grammar and pronunciation skills necessary to interpret the language, to interact with peers, and to present basic personal and factual information at the beginner's level. An introduction to the cultures and geography of the German-speaking world is integrated into the course through novice-level readings, videos and online activities.

428 German 2

Credit: 1.0
Grades: 9, 10, 11, 12
Two Semesters
Prerequisite: German 1 or
Dept. placement

Taught in German, German 2 builds upon the basic language proficiency acquired in German 1 by expanding each student's vocabulary and grammar base, with a special focus on understanding stories and narrating in the past. Students become more comfortable in the interpretive, interpersonal and presentational modes of communication. Extensive partner practice focuses on cultural awareness in navigating the German-speaking world.

432 German 3

Credit: 1.0
Grades: 10, 11, 12
Two Semesters
Prerequisite: German
2 & approval of current
German teacher

German 3 is a threshold year of the German program that sees students transition into culturally competent, independent users of the language. The course, taught in German, provides instruction in effective human interaction using the German language. Students explore a variety of cultural themes and viewpoints as they learn how to appropriately express their own thoughts and opinions in spoken and written German using appropriate vocabulary and advanced grammar. Students at level 3 begin to read lengthier cultural articles and works of fiction.

444 Honors Spanish for Heritage Speakers 1

Credit: 1.0
Grades: 9, 10, 11
Two Semesters
Prerequisite: Fluency in spoken Spanish.
Departmental placement

Honors Spanish for Heritage Speakers is a course for students who are able to speak and understand spoken Spanish, and so emphasizes the structure and use of formal Spanish. The students in this class study grammar, rules for orthography and accentuation, and word processing skills in Spanish; expand their vocabulary and cultural knowledge through readings in the history, culture, and literature of Latin America and Spain; develop research and discourse skills through current events pertaining to the Spanish-speaking world; create presentations to practice more formal uses of the spoken language; and practice writing in various formats ranging from poetry and short stories to formal essays and letters.

Español Honores para Hispanohablantes es un curso para estudiantes que pueden hablar y entender el español hablado y hace énfasis en la estructura y el uso del español formal. Los estudiantes en esta clase estudian gramática, reglas de ortografía, acentos, y habilidades en el procesamiento de textos en español; ampliación de vocabulario y su conocimiento de la cultura a través de lecturas de historia, cultura y literatura latinoamericana y española; desarrollo de capacidades de investigación y comunicación a través del uso de eventos actuales en el mundo hispanohablante; creación de presentaciones para practicar el uso más formal del idioma hablado; y práctica de la escritura en formatos diversos que van desde la poesía e historias cortas hasta ensayos más formales y cartas.

452 Spanish 1

Credit: 1.0
Grades: 9, 10, 11, 12
Two Semesters
Prerequisite: None

Spanish 1 is designed as a breakthrough year for students with little or no prior Spanish experience. The course, taught in Spanish, provides instruction in the vocabulary, grammar and pronunciation skills necessary to interpret the language, to interact with peers, and to present basic personal and factual information at the beginner's level. An introduction to the cultures and geography of the Spanish-speaking world is integrated into the course through novice-level readings, videos and online activities.

456 Spanish 2

Credit: 1.0
Grades: 9, 10, 11, 12
Two Semesters
Prerequisite: Spanish 1 or Departmental placement

Taught in Spanish, Spanish 2 builds upon the basic language proficiency acquired in Spanish 1 by expanding each student's vocabulary and grammar base, with a special focus on understanding stories and narrating in the past. Students become more comfortable in the interpretive, interpersonal and presentational modes of communication. Extensive partner practice focuses on cultural awareness in navigating the Spanish-speaking world.



FINE ARTS

The visual and performing arts are considered essential components in the education of students at Marquette University High School and the successful fulfillment of its mission. We strive to prepare our students to be creative and critical thinkers, artists, participants and patrons in the arts through outstanding teaching and background preparation. We work to create an interdisciplinary, intercultural, and creative community. The students are trained to be producers of art and a source of knowledge and motivation for the larger community. We encourage the exploration of values, attitudes, and standards through the arts by introducing the student to a broad range of concepts focusing on the human response to moral, historical, philosophical and creative interests while fostering creativity and the dissemination of information through open and free discussion.

The fine arts also provide learners with non-academic benefits such as promoting self-esteem, motivation, aesthetic awareness, cultural exposure, creativity, improved emotional expression, as well as social harmony and appreciation of diversity. These are the very fibers of the fabric known as our American culture. As a Jesuit school, we emphasize the uniqueness and acceptance of each person, encourage a lifelong openness to growth; love and acceptance of self and provide a realistic knowledge of the world and its structures. The highest standards in all things are our aspiration along with preparing our students for active participation in the community for the service of others.

All students must complete one-half credit in Fine Arts in order to graduate from Marquette University High School; however, those students with an aptitude in the arts typically take a Fine Arts course each semester throughout their four years.

Visual Arts

Foundations (Level One)

Drawing, 2D Design and 3D Design will be helpful in developing your ability to visualize and conceptualize, which are both important skills for future architecture or engineering students. Learning about perspective and symmetry is invaluable.

623 2D Design

Credit: 0.5
Grades: 9, 10, 11, 12
One Semester
Prerequisite: None

Students are introduced to basic art and design methods including traditional drawing, sketching, and cutting techniques as well as digital photography, computer design and illustration in Adobe Photoshop and Illustrator. Projects have a strong focus on developing technical design skills with line, shape, color text, logos, icons, posters, and more.

This is a foundational design course. No art or design experience is necessary.

Students are required to provide their own laptop capable of running Adobe Creative software. MUHS provides software for use on personal computers.

624 3D Design

Credit: 0.5
Grades: 9, 10, 11, 12
One Semester
Prerequisite: None

Students are introduced to sculptural and design methods including basic drawing, cutting, folding, sculpting, adhesives, sewing, carving, casting, and 3D digital modeling.

Projects have a strong focus on developing technical skills, a basic understanding of tools, familiarity with sculpture materials, and design principals.

This is a foundational design course. No art or design experience is necessary.

640 Drawing

Credit: 0.5
Grades: 9, 10, 11, 12
One Semester
Prerequisite: None

Students engage in fundamental drawing exercises investigating line, shape, perspective, tone and color. Projects have a strong emphasis on drawing from observation and developing an understanding of drawing tools including pencil, eraser, charcoal, chalk and colored pencil.

This is a foundational drawing course. No drawing experience is necessary.

Visual Arts

Specialty (Level Two)

608 Photography

Credit: 0.5
Grades: 9, 10, 11, 12
One Semester
Prerequisite: Foundations
(level one) course

Students learn to see the world more carefully with weekly photography projects. A photographic eye is developed with a broad range of experiences in traditional camera craft (including film development), new digital techniques, and alternate imaging methods. The cultural importance of photography is studied through the lens of fine artists, journalists, and designers.

This is a foundational photography course. Any one of the art foundations courses fulfills the prerequisite requirement. No photography or retouching experience is necessary.

Students are required to provide their own digital camera with manual controls (mobile devices are not acceptable, DSLR is preferred) and a laptop capable of running Adobe Photoshop. MUHS provides Adobe editing software for use on personal computers.

For specific camera advice and laptop specifications please email beck@muhs.edu.

622 Painting

Credit: 0.5
Grades: 9, 10, 11, 12
One Semester
Prerequisite: Foundations
(level one) course

Using acrylic and watercolor paints, students acquire a basic proficiency in color mixing, paint application and composition. All supplies are provided.

This is a foundational Painting course. Any one of the art foundations courses fulfills the prerequisite requirement. No painting experience is necessary.

628 Ceramics

Credit: 0.5
Grades: 9, 10, 11, 12
One Semester
Prerequisite: Foundations
(level one) course

Students experience the open ended workability of clay as an art medium through a variety of clay techniques including hand building, carving, sculpting, wheel throwing, and glazing to produce both functional and fine art objects. The cultural importance of ceramics and sculpture is studied through the work of fine artists, craftspeople, and designers.

This is a foundational ceramics & sculpture course. Any one of the art foundations courses fulfills the prerequisite requirement. No 3D art experience is necessary.

644 Advanced Drawing

Credit: 0.5
Grades: 9, 10, 11, 12
One Semester
Prerequisite: Drawing

Students expand on their drawing skills by engaging in extended personal projects and sketchbook exercises. Projects have a strong emphasis on current trends in art making, culture, and society.

The foundation level Drawing course fulfills the prerequisite requirement.

Instrumental and Choral Music

664 Computer Assisted Music

Credit: 0.5
Grades: 9, 10, 11, 12
One Semester
Prerequisite: None

Computer Assisted Music is available to all students; however, it is designed primarily for students with little or no musical training. Basic computer skills will be taught as well as the mechanical aspects of music necessary to decipher musical notation. As students develop a level of understanding of music notation, they will recreate music using computer-based workstations found in the school's Fine Arts Computer Lab. Class time is set aside for this computer use; however, students will likely have to use the computer lab during their free time.

673 Jazz Lab 1 – Electric or Acoustic Bass

Credit: 0.5 per year
Grades: 9, 10, 11, 12
Two Semesters
Prerequisite: Has received previous instruction

Jazz Lab 1 is intended for any student who has received previous instruction on one of the following musical instruments: piano, acoustic or electric guitar, acoustic or electric bass, drum set or percussion. This course is designed to help the student increase both individual and ensemble skills. Students are involved in classes focusing on specific instrument types and small ensembles.

671 Jazz Lab 1 - Piano

Credit: 0.5 per year
Grades: 9, 10, 11, 12
Two Semesters
Prerequisite: Has received previous instruction

Jazz Lab 1 is intended for any student who has received previous instruction on one of the following musical instruments: piano, acoustic or electric guitar, acoustic or electric bass, drum set or percussion. This course is designed to help the student increase both individual and ensemble skills. Students are involved in classes focusing on specific instrument types and small ensembles.

674 Jazz Lab 1 – Drums/Percussion

Credit: 0.5 per year
Grades: 9, 10, 11, 12
Two Semesters
Prerequisite: Has received previous instruction

Jazz Lab 1 is intended for any student who has received previous instruction on one of the following musical instruments: piano, acoustic or electric guitar, acoustic or electric bass, drum set or percussion. This course is designed to help the student increase both individual and ensemble skills. Students are involved in classes focusing on specific instrument types and small ensembles.

675 Jazz Lab 1 – Electric or Acoustic Guitar

Credit: 0.5 per year
Grades: 9, 10, 11, 12
Two Semesters
Prerequisite: Has received previous instruction

Jazz Lab 1 is intended for any student who has received previous instruction on one of the following musical instruments: piano, acoustic or electric guitar, acoustic or electric bass, drum set or percussion. This course is designed to help the student increase both individual and ensemble skills. Students are involved in classes focusing on specific instrument types and small ensembles.

Instrumental and Choral Music continued

680 Jazz Lab 3

Credit: 0.5 per year
Grades: 9, 10, 11, 12
Two Semesters

Prerequisite: Jazz Lab 1 or 2
and consent of instructor

Jazz Lab 3 is intended for students who have received previous instruction on one of the following musical instruments: flute, clarinet, saxophone, French horn, trumpet/cornet, trombone, baritone horn, or tuba. Those students who have successfully completed Jazz Lab 1 or 2 may also enroll (with the consent of the instructor.) This course is devoted to the performance of jazz/fusion music with an emphasis on sight-reading and improvisation. Participation in end-of-semester concerts is required.

692 Chorus (Semester Option)

One Semester

695 Chorus (Full Year Option)

Credit: 0.5 per year
Grades: 9, 10, 11, 12
Days: 3 per week
Two Semesters

Prerequisite: None

There is only one chorus. However, students may choose to enroll in chorus for the full year (select course 695) or for one semester only (select course 692). Students may repeat this course in subsequent years. This ensemble enjoys a commitment to musical excellence and to a mission of artistic expression. The chorus performs a varied repertoire of music including pop, show tunes, folk, classical and spirituals. This course is designed to give the student a fundamental technical knowledge of the voice as an instrument as well as pure enjoyment of vocal music. Audition is not necessary. Previous vocal experience is not required, but helpful.

697 Select Chorus (Full Year Option)

Credit: 0.5 per sem
Grades: 9, 10, 11, 12
Days: 5 per week
Two Semesters

Prerequisite: Chorus and
consent of instructor

Select Chorus is designed for students interested in singing and performing college acapella music. Selection is based on audition and assumes previous participation in chorus (695). Membership in Select Chorus is limited. Selected students are expected to be actively engaged in MUHS choral performances providing leadership roles within the program. This course is designed to provide students with advanced technical knowledge of the voice as an instrument with individualized instruction and critique provided.

String Orchestra

Students who play a non- Jazz Lab instrument and participate in UW-Milwaukee's University Community Orchestra or the Milwaukee Youth Symphony Orchestra (MYSO) may receive .5 Fine Arts string orchestra credit per year on their MUHS transcript. Community Orchestra rehearsals are held weekday evenings. Students interested in string orchestra credit should see the Assistant Principal for Academics for more information. Students involved in string orchestra outside of MUHS are encouraged to take other Fine Arts courses in their 4 years.



THEOLOGY

The purpose of the Theology program at Marquette University High School is to acquaint students with the Catholic/Christian tradition. While the pastoral programs (retreats, liturgies, Shared Life Project, etc.) are more experiential in nature, theology courses focus on a knowledge of the main elements of Catholic Christian tradition. Theology courses also attempt to help students reflect upon and grow in their religious and moral values and beliefs in light of that tradition.

The first three credits of theology are specified. Theology 1 is Biblical Literature. Theology 2 is composed of Moral Decision Making and Sacraments + the Catholic Church, each a semester course. Theology 3 is composed of Church History and Christian Discipleship, each a semester course. Seniors must enroll in Theological Seminar and select one senior elective.

800 Biblical Literature

Credit: 1.0
Grades: 9
Days: 4 days 1st sem./5
days 2nd sem.
Two Semesters
Prerequisite: None

Biblical Literature presents an overview of the Sacred Scriptures. The Bible is the primary text. Studying the history, literature and culture of Biblical times, students are called to examine the great theological and religious truths of the Biblical message and apply them to their lives. Active involvement by each student is emphasized. Included in the course is an overview of the life of St. Ignatius, Ignatian spirituality and the Eucharist.

992 Freshman Advising

Credit: Part of Biblical
Literature credit
Grades: 9
Days: 1 per week
Two Semesters
Prerequisite: None

Freshmen Advising is the freshmen group counseling program. Freshmen meet in small groups with a faculty adviser on a weekly basis during the first semester. The freshmen advising class is designed to help freshmen transition into Marquette University High School, and address appropriate developmental issues. It also provides time for freshmen to talk about current topics of concern with their freshman advising teacher and the two senior Big Brothers. The teacher meets individually with the students after each progress report and grading period. The freshmen learn how to interact in a group setting. Topics of discussion include: transition issues, goal setting, learning styles assessment, how to communicate with teachers, conflict resolution, use of time, decision making skills, bullying, self-esteem, managing stress, depression, dating and respect, study skills, test prep and dangers of social media. The Big Brothers are part of each group. They offer "Words of Wisdom" and speak on some of the topics stated above, offering a seasoned student viewpoint to the discussion. In the second semester the class meets less frequently. Freshmen advising teachers will meet one-on-one with their students outside of the Freshman Advising class when necessary.



FITNESS REQUIREMENT

Marquette University High School is dedicated to educating the whole person and sees the physical formation of our students as an integral part of Jesuit education. An active lifestyle and proper nutrition enhance all aspects of development including health, physical fitness, academic performance, goal setting, self-esteem, stress management, and social skills. In order to graduate, freshmen must participate in the fitness program throughout the academic school year. Completion of the Fitness Program is a graduation requirement and appears on students' report card and permanent transcript. Students must attend an orientation to the Fitness Program at the beginning of the school year. (These normally take place during one of the students' study hall periods.) Additional information will be sent to families at a later date.

COMPUTER SCIENCE

In an increasingly technological world, it is important that students develop an understanding of the nature of technology, recognize its potential impact on their lives, use a variety of technologies to prepare them for post-secondary education, and become informed, productive, responsible, and independent learners. Parents need to be aware that their sons do not necessarily have the proper computer foundations even though they can display "adept" skills on the Web or at gaming.

Students wishing to take computer science courses should have a computer that runs Windows, Mac OS X, or Linux (Chromebooks are not supported). The Java programming language (Oracle JDK) is available to students free of charge, as is the software that it is used to write and compile computer programs (jGrasp). Students will receive assistance in downloading and installing these programs on the first day of any MUHS computer science course.

Students should be aware that many engineering majors are required to take some form of computer programming as a part of their undergraduate program. A number of engineering schools recommend that students considering engineering take a computer programming course prior to high school graduation. With this in mind, MUHS offers two college-preparatory programming classes: Computer Programming (one semester, using Java as the programming language) and AP Computer Science (two semesters, using Java as the programming language). Students considering engineering as a college major are strongly encouraged to take at least one semester of programming prior to graduation.

Student Four Year Planning Grid

	Freshman	Sophomore	Junior	Senior
Theology (4 Credits)	Biblical Literature	Sacraments/Morality	Church History/ Discipleship	Senior Seminar/1 Elective
English (4 Credits)	English 1	American Literature & Composition		
Math (3 Credits)				
Science (3 Credits)	Biology or Honors Biology	Chemistry or Honors Chemistry		
Social Studies (3 Credits)	World History			
World Languages (2 Credits)	Spanish, German, or Latin			
Fine Arts (.5 Credit)				
Electives				
Total 23 Credits				
Fitness	1.5 hours per week			
Service		24 hours	Hours and Service Project	80 Hours of Senior Shared Life
Standardized Testing	PreACT (optional)	PreACT / PSAT (optional)	PSAT / ACT	ACT / SAT (recommended)

Course Sequencing

	Freshman	Sophomore	Junior	Senior
English (4 credits required)	English 1	American Literature & Composition	English Choice	English Choice
Theology (4 credits required)	Biblical Literature	Sacraments AND Morality	Church History AND Discipleship	Senior Seminar AND Theology Choice
Science (3 credits required)	Biology	Chemistry	Physics OR Science Choice	Physics OR Science Choice
Mathematics (3 credits required)	Algebra 1 OR Geometry	Geometry OR Algebra 2	Algebra 2 OR Precalculus	
Social Studies (3 Credits)	World History	U.S. History	Social Studies Choice	
World Languages (2 Credits)	World Language Choice 1	World Language Choice 2		
Fine Arts (.5 Credit)	Fine Arts Choice			
Electives			Electives Choice	Electives Choice
Retreat Service	Freshman Retreat	Sophomore Retreat 24 Hours Service	Service Project 24 Hours Service	Kairos (Optional) Senior Shared Life
TOTAL CREDITS	5.5-6.5	5.5-6.5	5.5-6.5	5.0-6.5