

COURSE DESCRIPTIONS

2018-2019

Marshall School

**Marshall School
2018-2019 Course Descriptions**

MARSHALL SCHOOL MISSION STATEMENT

The mission of Marshall School is to educate students to become global citizens who demonstrate strong academic habits, respect, compassion, integrity, self-discipline, and intellectual curiosity.

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MIDDLE SCHOOL

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MIDDLE SCHOOL CURRICULUM AT A GLANCE

4th Grade

English 4
Math 4
Science 4
SS 4: US History
Physical Ed/Health 4
World Language
Workshops and Rotating Courses:
Art
Music
Extended English
Science Lab
Robotics
Technology Workshop
Extended Math

7th Grade

Literature 7
Language Arts 7
Math 7 *
Life Science 7
Social Studies 7
Physical Ed/Health 7
World Language:
French IA
Spanish IA
Fine Arts:
Art 7/8
Band 7/8
Choir 7/8
String Orchestra 7/8

5th Grade

English 5
Math 5
Science 5
SS 5: The Americas
Physical Ed/Health 5
World Language
Workshops and Rotating Courses:
Art
Music or String Orchestra
Extended English
Science Lab
Robotics
Technology Workshop
Extended Math

8th Grade

Literature 8
Language Arts 8
Math *
Math 8
Algebra I
Honors Algebra
Earth Science 8
Geography
Physical Ed/Health 8
World Language:
French IB
Spanish IB
German IB
Fine Arts:
Art 7/8
Band 7/8
Choir 7/8
String Orchestra 7/8

6th Grade

English 6
Math 6 *
Science 6
SS 6: Ancient Civilizations
Physical Ed/Health 6
World Language
Workshops and Rotating Courses:
Art
Extended English
Science Lab
Robotics
Technology Workshop
Extended Math
Music:
Band
String Orchestra
Choir

All course offerings and sections are based on likely enrollment. Sections may be canceled or added based on enrollment.

* Based on criteria established by the Math Department that includes a review of standardized test scores and previous academic performance, students in grades 6-8 are placed in the math course that best meets their mathematical abilities.

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FINE ARTS

Mission and Vision: The Fine Arts Program at Marshall School provides a creative environment with opportunities for students through music, visual art, and theater. The curriculum instills life-long appreciation for the fine arts, cultivates discipline, fosters enduring character traits, and equips students with skills of creativity, critical thinking, communication, and collaboration.

Philosophy: The Fine Arts Program at Marshall School provides a creative environment with hands-on opportunities for students through music, visual art, and theater. The curriculum is designed to develop fundamental skills within the fine arts, fostering creativity and curiosity through problem solving, critical thinking, and creative responses to complex themes. The Fine Arts faculty maintain active, artistic lives and bring real-world experience into the classroom. They also strive to provide opportunities through enriched fine arts experiences with local and international artists. Students are guided to become independent learners, lifelong participants, and appreciative patrons of fine arts.

VISUAL ARTS

4th, 5th, and 6th Grade Art

This class introduces students to a studio-based art experience. Students will practice responsible studio habits and procedures through various mediums, including drawing, painting, sculpting, printmaking, and more. They will explore multiple solutions to creative problems and apply learned concepts and techniques with student directed projects. Themes in 4th grade art include Fauvism, Color Theory, Pinch Pots, Surrealism, Pop Art, and Mayan Masks. Project themes in 5th grade art include Ojibwe Art, Moving Body Wire Sculptures, Landscapes, Water Color Techniques, and Stories in Art. 6th grade art themes include Egyptian Art, One Point Perspective, and Comic Book Art.

Art 7/8

Course number: 1078

This studio class meets every day and is a more in-depth art experience than previous classes. Projects are more complex and allow for multiple steps in the process, from practicing specific skills, to the work of making and finishing art pieces. Projects include drawing from observation, painting and color theory, sculptural ceramics and tile making, portraiture, Photoshop skills, photography and Stop Motion, and more.

MUSIC

4th and 5th Grade Music

Twice weekly, students explore music through singing, moving, listening, creating, rhythm instruments, and playing recorders. Classes incorporate lessons on composers, opera, music theory, singing with solfege, and cultural and multi-cultural music to broaden the student's perspective. Students perform in 2 major concerts per year.

6th Grade Choir

Twice weekly, students explore music through singing choral literature appropriate to this age level, primarily the

unchanged voice. Along with developing healthy and correct singing mechanics, classes include lessons on solfege, reading music, and music theory, as well as helping students develop an appreciation for various music styles, forms, and composers. Students perform in 2 major concerts per year.

7th/8th Grade Choir

Course number: 1087

Daily, students sing and participate in a large group ensemble. The repertoire includes choral literature (mixed voices/changing voice) that teaches the mechanics of vocal production, harmony, rhythm, and develops confidence with singing both individually and with others. To further improve vocal technique, students practice daily warm-ups, physical stretches, sight singing (solfege), and music theory. The choir performs in three major concerts per year, as well as school chapels and a middle school choir festival.

5th Grade String Orchestra

The goal of the 5th grade strings program is to develop each student's musicianship at the beginning level. Students are instructed in note reading, general music terms, rhythm, instrument posture and technique, and instrument care. Students meet twice a week as a group to work on developing their skills. Students perform in two major concerts per year.

6th Grade String Orchestra

6th grade strings continues to emphasize musicianship at the advanced-beginner level. Beginning students are also welcome since there is a review period of what was learned in 5th grade. Students meet twice per week as a large ensemble. Students continue to develop note reading, general music terms, rhythm, proper instrument posture, and instrument care. Technology is incorporated to develop their music skills and to promote creativity. Students perform in two major concerts per year.

7th/8th Grade String Orchestra

Course number: 1088

7th and 8th grade strings students meet daily to improve their musical skills on string instruments at the advanced beginner/intermediate level. They also learn basic music theory and history, and develop their listening skills. Literature includes a variety of music from classical to contemporary with varying levels to engage all students. The ensemble performs in three major concerts per year and has other opportunities to perform at various events during the school year.

6th Grade Band

The goal of 6th grade band is to introduce beginning wind and percussion players to the joys and challenges of ensemble playing. Materials covered include good tone production, finger/sticking technique, articulation, intonation, blend, breathing, rhythm, expression, and music theory, as well as instrument care and maintenance. It is recommended that students, if possible, take some beginning lessons prior to entering 6th grade. The 6th grade band meets twice weekly and performs two major concerts per year. Students also participate at various chapel and community meetings.

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7th/8th Grade Band**Course number: 1089**

The goal of the 7th/8th Grade Band is to continue the musical development of second and third year instrumentalists. Although most students begin their band experience in 6th grade, students can elect to begin band in 7th or 8th grade. It is recommended that these beginning students take lessons during the summer prior to the start of school. The full band meets daily and performs in three major concerts each year. Students also have the opportunity to perform at various school events. Literature includes a balance of standard young band compositions and lighter popular tunes.

ENGLISH

The Middle School Humanities Department employs various methods to develop an appreciation for both the learning process and the subject matter. Teachers challenge students to think analytically, critically, and creatively as they explore new concepts and gain a broad knowledge base designed to enhance their understanding of an increasingly interdependent global society. Teachers choose course material that exposes students to a wide range of perspectives and experiences, striving to impart many of the values associated with being a global citizen, including ongoing development of social, political, ethical, and ecological consciousness. The department believes frequent and deep reading, writing, and discussion, scaffolded by both teacher and peers, are essential to accomplish these aims. Furthermore, students practice academic, fiction, and creative nonfiction writing and read a variety of genres to develop both a passion for literature and an understanding of literary analysis.

English 4**Course number: 3040**

The English 4 curriculum follows an integrated reading and writing approach in which students develop their ability to read, write, speak, listen and analyze a variety of literature. They learn and use expository forms and respond to their reading in a variety of ways. Students use the *Words Their Way* method to guide daily spelling practice with an emphasis on word patterns and meaning. The reading list in fourth grade includes, but is not limited to, *The Fighting Ground* (Avi), *Who Comes with Cannons?* (Beatty), *From the Mixed-Up Files of Mrs. Basil E. Frankweiler* (Konigsburg), *Bridge to Terabithia* (Paterson), and *Maniac Magee* (Spinelli).

English 5**Course number: 3050**

The student's experience with language in English 5 is active and intense. They create fiction, learn and use expository forms, and respond to their reading by writing. Students study language in the context of their own writing as well as through separate and systematic language skills instruction. Students are exposed to a variety of spelling rules using the *Words Their Way* method, which guides the spelling and reading instruction. Students participate in an independent reading program that focuses on genre and theme exploration and complements in-class literature studies. Students read, discuss, and analyze whole works of literature including *Island of the Blue Dolphins* (O'Dell), *Brian's Winter* (Paulsen),

Soldier's Heart (Paulsen), and *Roll of Thunder, Hear My Cry* (Taylor).

English 6**Course number: 3060**

The English 6 curriculum focuses on literature about adolescents who struggle with a variety of challenges. Students develop sensitivity for and a deeper understanding of issues regarding race, gender, and culture through exploration of literature. Through a year-long emphasis on writing using the 6-Trait guidelines, students become familiar with the composition process from note taking and drafting to editing, proofreading, and recopying. Students study roots, prefixes, and suffixes to better comprehend vocabulary words and use the Orton-Gillingham method to guide the spelling and reading instruction. Students also use composition notebooks to keep track of reading strategies and their daily planners to keep track of outside reading on a daily basis. The reading list includes, but is not limited to, *Because of Mr. Terupt* (Buyea), *Out of My Mind* (Draper), *Counting by 7s* (Goldberg Sloan), *Pete Yorn* (Mikaelson), *Wonder* (Palacio) and *Freak the Mighty* (Philbrick). Texts include *The Middle School Handbook* (Holt, Rinehart and Winston) and *Creating Writers Through 6-Trait Writing* (Pearson).

Literature 7**Course number: 3070**

Students study a variety of literature for the purpose of understanding the basics of writing styles and formats, literary analysis and basic analytical terms and tools. Emphasis is placed on appreciation, enjoyment, understanding, critical thinking and the development of stimulating reading and writing skills and habits. Students write about literature using a variety of formats and literary analysis tools on a regular basis. Students practice and learn rules of grammar, spelling, capitalization, and punctuation. In addition to the assigned novels listed, up to four novels and plays are also studied. Additionally, students are required to read and write about novels from an outside reading curriculum. Students research, interpret, polish, and perform (or play a major role in the performance of) a published or student-created literary piece to a large audience in a formal setting. The assigned reading list includes: *The Adventures of Tom Sawyer* (Twain), *Heroes, Gods and Monsters of the Greek Myths* (Evelin), *Percy Jackson's Greek Gods* (Riordan), *The Giver* (Lowry), *The Phantom of the Opera* (Leroux), *Romeo and Juliet* (Shakespeare), *The Golden Compass*, (Pullman), *The Diary of Anne Frank* (Frank), *The Hobbit* (Tolkien), *Fahrenheit 451* (Bradbury), *The Bean Trees* (Kingsolver), and *Pudd'nhead Wilson* (Twain).

Writing 7**Course number: 3075**

Students practice the rules of grammar and usage, building on the basics learned in previous grades. Beginning with sentence construction, they learn to write coherent paragraphs and develop complex ideas. Students read poems, short stories, new articles, and essays written by a diverse range of authors. In-class discussions help them begin the first step of the writing process: generating thoughtful ideas and opinions. Writing assignments challenge them to write extensively about both themselves and the world around them.

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Writing 8

Course number: 3080

Through exposure to various writing genres, techniques, style, vocabulary, and mentor text, students grow as writers, endeavoring to use writing as a means to explore both themselves and the world around them. Students practice various writing formulas and techniques based on the Six-Traits of Writing and apply these concepts to four major writing genres (personal/reflective, entertainment, academic, and persuasive writing) to discover real-world purposes for writing, giving them a solid writing foundation for high school and beyond. Text includes *The Elements of Style* (Strunk and White) and *The Middle School Handbook* (Holt, Rinehart, and Winston), and various contemporary short pieces.

Literature 8

Course number: 3085

Literature 8 introduces students to a wide variety of novels, short stories, poems, plays, and essays to help them develop as readers, writers, speakers, and listeners. Units are thematically arranged so students may sample a diversity of writers and genres on the topics of community, coming of age, heroism, individuality, creativity, and the individual's role in community, which further broadens students' perspectives. Comprehension of these texts arises from a combination of analytical and personal understanding to develop literary skills and personal relevance. Assignments and projects lead students from concrete, literal thinking toward higher order, abstract skills. Vocabulary and spelling are taught within the context of the literature, and literary terms and verbal strategies are studied. Students research, interpret, polish, and perform (or play a major role in the performance of) a published or student-created literary piece to a large audience in a formal setting. In addition to class-required reading, students must read approximately 300 pages for outside reading per quarter. Students work on and create a year-long learning project through Genius Hour which culminates in a showcase open to the public. Text: *A Midsummer Night's Dream* (Shakespeare 1998), short stories, student-selected novels and a selection of multicultural text including *All But My Life* (Klein 1998), *Samurai's Garden* (Tsukiyama 1996), *The Joy Luck Club* (Tan 1995), *Red Scarf Girl* (Jiang 1997), *My Ántonia* (Cather 1918), *Life of Pi* (Martel 2003), *Hotel on the Corner of Bitter and Sweet* (Ford 2009), and *The Hate U Give* (Thomas 2017).

WORLD LANGUAGES

Vision: The Marshall School World Languages Department fosters the development of global citizens equipping them with communication and critical thinking skills, cross-cultural competencies, and global awareness in today's pluralistic society. Through the study of languages and cultures, and by our support of co-curricular and international learning opportunities, students are encouraged to become ambassadors locally and globally.

Philosophy: The Marshall School World Languages department is committed to expanding students' worldviews and providing students with the knowledge, skills, and cultural awareness necessary to communicate and engage in a meaningful way with people around the globe.

World Language 4

Course number: 4051

Students learn basic pronunciation, conversation and culture in Spanish by exploring Spanish-speaking countries through music, storybooks, dance, games, maps, iPad activities, and other material. Through culture and *Exploratory Spanish*, students learn the alphabet, colors, numbers, greetings, family members, body parts, food and drink, and other basic conversation skills. They create a Passport Journal that will document their "travels" through Spanish-speaking countries. Students use their Spanish skills at the *Mercado Central* on Lake Street in Minneapolis.

World Language 5

Course number: 4050

This year-long exploratory course in French allows students to gain an understanding of both French language and culture. Students "travel" virtually around the different French speaking countries of the world, exploring the geography, flag, music, food, traditional dress, and customs from each region. Through projects and dialogues, the students learn greetings in French, the alphabet, colors, numbers, animals, family members, body parts, classroom objects, food and drink, sports, places in town, weather expressions, and other fun vocabulary.

German IB (8th Grade)

Course number: 4082

This 8th grade course is the second half of Level I begun in German 1A. German 1B reviews vocabulary and structures presented in German 1A. More complex language structures are introduced at this level, which greatly expand the student's ability to communicate in German. These structures will include using the past tense, prepositions, auxiliary verbs and advanced sentence structure. German culture continues to be integrated into language study through authentic materials, films, cultural celebrations, and an immersion experience at the Concordia Language Village. Students will have the opportunity to read and perform a German fairy tale.

French IA

Course number: 4062/4070

French 1A is the first half of French 1. In this 7th grade full year course, students are introduced to the four basic language-learning skills: speaking, reading, writing, and listening. There is an emphasis on helping students to feel comfortable with the idea of communicating in a foreign language even though they may not fully understand the written and spoken words around them. The main focus of the course will be vocabulary-based. Students will also begin studying basic grammatical structures including present tense regular and irregular verbs. In addition, we will begin our exploration of the various French regions as well as French-speaking cultures around the world.

French IB

Course number: 4080

This 8th grade course is the second half of French 1. French 1B expands on the present tense regular and irregular verbs as well as vocabulary, idioms, and structure and introduces the passé composé. Celebrations of French holidays and a

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sampling of French cuisine, art, architecture, customs and music are important aspects of classroom learning. Students may be able to take the National French Exam for the first time for enrichment and review.

Spanish IA

Course number: 4061/4071

The *Spanish 1A* course is an introduction to the basic structure, vocabulary, and practical use of the Spanish language. Through interactive activities and instruction, students will build competency in all four language skills: listening, speaking, reading and writing. Students will study basic grammar, rules of agreement, sentence structure, and word order, allowing for basic communicative proficiency and comprehension. Students' studies will revolve around thematic units that cover related vocabulary sets, grammar concepts, and cultural topics.

Spanish IB (8th Grade)

Course number: 4081

The *Spanish 1B* course builds upon the basic skills and practical use of the language introduced in Spanish 1A. Through interactive activities and instruction, students will build competency in all four language skills: listening, speaking, reading and writing. This course will reinforce and expand upon basic grammar, rules of agreement, sentence structure, and word order covered in Spanish 1A, allowing for increased communicative proficiency and comprehension. Students' studies will revolve around thematic units that cover related vocabulary sets, grammar concepts, and cultural topics. Students will review the present tense and begin learning the preterit tenses, allowing them to communicate about present, past, and future events. To make the language come alive, we will be using what we have learned at Concordia Language Village weekend immersion camp!

MATHEMATICS

In following the Marshall School mission statement, it is the belief of the math department that a solid education in mathematics is key to a student's success in life. It is the philosophy of the mathematics department at Marshall School that all students are capable of experiencing success in middle and upper school mathematics given that the student has a thorough knowledge and understanding of basic mathematical concepts. The math department strives to challenge students to become independent life-long learners and analytical thinkers. Students should be able to communicate effectively about and through mathematics, orally and in writing, understanding and explaining the processes rather than simply being able to find answers.

Providing a good math education means providing opportunities for hands-on exploration of mathematical concepts wherever it is possible. It is very important that students are accepted at whatever stage they may be at in their mathematical career. This acceptance must come from instructors, peers and parents alike. Students are encouraged to get extra help when they have fallen behind or are preparing for an upcoming test, and they are more likely to do so when they feel this acceptance.

Math 4

Course number: 5040

Students participating in 4th grade math will be involved in a balanced and rigorous approach to learning through direct instruction, cooperative learning, real-world application, hands-on activities, paper/pencil tasks, and on-line/group oriented games. The curriculum covers whole numbers and operations, multiplication and division facts, time/temperature/data, multiplying and dividing 1 and 2 digit numbers, fractions/decimals, geometry, and measurement/probability. Students will, at times, work in groups, use manipulatives, create models, and play games to build a better understanding of the skills being learned. Students also enhance their learning of math by practicing their skills on a weekly basis using Khan Academy.

Math 5

Course number: 5050

The fifth grade mathematics program provides students with a rigorous approach to learning, balancing the acquisition of basic skills with reasoning and inquiry. The curriculum covers the use of whole numbers, decimal and fraction operations, number theory, data/graphing, ratios/percent, probability, geometry, and pre-algebra. Problem-solving strategies and mathematical habits of mind are explored and practiced throughout the year to encourage critical thinking and reasoning. Many lessons use cooperative groups, games, and manipulatives to support students in exploring math concepts. Focus is placed on building verbal and visual models and written expressions of mathematical ideas. Students also enhance their learning of math by practicing skills on a weekly basis using Khan Academy.

Math 6

Course number: 5060

The sixth grade mathematics program provides students with a rigorous approach to learning, balancing the acquisition of basic skills with reasoning and inquiry. The curriculum covers operations with whole numbers, integers, and rational numbers, data analysis, probability and statistics, expressions and equations, ratio and proportion, percent applications, geometry and measurement, coordinate graphing and number theory. Problem-solving strategies and mathematical habits of mind are explored and practiced throughout the year to encourage critical thinking and reasoning. Focus is placed on building verbal and written expression of mathematical ideas, as well as giving students many experiences with abstract and logical reasoning to prepare them for pre-algebra.

Pre-Algebra

Course number: 5070

This course sets the foundation for higher mathematics studies by introducing students to abstract reasoning. This course reinforces basic algebraic skills while teaching students about variables and what they represent. By completing a comprehensive study of integers, rational and irrational numbers, equations and inequalities, percents, 2-D and 3-D shapes, and probability, students will understand how the different areas of math connect and how to apply their knowledge in the real world. Students work in cooperative groups, individually, and use technology to express their learning.

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Math 8**Course number: 5080**

Math 8 is designed to help prepare students for Algebra. Students review their basic math skills including rational and irrational numbers and solving equations and inequalities. This course places a major emphasis on graphing linear equations, including slope intercept, point slope form, and standard form. Students apply their mathematical reasoning to solving systems of equations and deriving equations.

Algebra I**Course number: 5081****Prerequisite: Department recommendation**

This course expands students' knowledge of the concepts of variables, expressions, solving equations, and graphing on the coordinate plane. Students become proficient working with the symbolic nature of mathematics such as operating on polynomial expressions, factoring, and translating words into symbols. Special emphasis is placed on problem solving. Topics include algebraic fractions, graphing linear functions, systems of linear equations, and work with quadratic expressions, exponents and roots.

Honors Algebra I**Course number: 5082****Prerequisite: Department recommendation**

This eighth grade honors course is designed for students who have demonstrated a high level of mathematical ability as well as the motivation and maturity necessary to handle the high expectations inherent in an honors course. Students have more homework than in a traditional Algebra I class, due to the broader scope of material studied. Students are presented a variety of problems demanding that they integrate their knowledge of topics from general math, geometry, and algebra, and demonstrate excellent problem solving skills. Problems involving discrete math topics such as probability and statistics, matrices and determinants are interspersed with the more traditional algebra problems, making the course more interesting and challenging. Students who do well in this course have an excellent preparation for future math courses and are eligible to take additional honors courses in mathematics.

PHYSICAL EDUCATION/HEALTH

The Marshall School Physical Education and Health Department is committed to providing students with the knowledge and skills necessary to link Health and Physical Education to the foundation of a healthy, productive, and fulfilling life.

Physical Education and Health 4**Course number: 6040**

This class focuses on cooperative and adventure games, practice of manipulative and loco-motor skills in game settings and basic understanding of team games. An emphasis is put on problem solving, appropriate social behavior/sportspersonship and teamwork. Students will also follow the Fitness Gram module while recording fitness scores. Health units include, bus safety, nutrition, personal hygiene and the importance of physical fitness.

Physical Education and Health 5**Course number: 6050**

The fifth grade physical education program provides each student with the opportunity to participate in a comprehensive program consisting of skill development, individual and team sports, and physical fitness activities. The main goal of the program is to emphasize the motor and skill development that is needed to have satisfying experiences. The program promotes the spirit of cooperation, leadership, fair play, teamwork, and friendly competition. Mini health units include bus safety, personal hygiene, the growing body and the physical and emotional changes that occur, physical fitness, nutrition, and brain awareness.

Physical Education and Health 6**Course number: 6060**

This multifaceted class has two components: physical education and health. Physical Education focuses on equipping students to make responsible decisions, learning to work with others on a team, sportspersonship, and the importance of incorporating healthy physical activities into daily living. Students will continue to work on manipulative and loco-motor skills in various game settings. Students will also follow the Fitness Gram module while recording fitness scores. The health curriculum includes units on nutrition, backpack awareness and posture, bus safety, brain and spinal cord care, puberty, and physical fitness.

Physical Education and Health 7**Course number: 6070**

Students are exposed to a variety of activities as an individual, partner, or team member. Seventh graders focus on basic skill development and learning basic rules and strategies. Students learn the importance of keeping fit by performing life-long fitness activities that ensure a healthy lifestyle. Students will also use their iPad along with the Daily Fit Log program to record and analyze fitness scores throughout the year. This course also includes a health component covering topics on physical fitness, nutrition, human sexuality, first aid, and tobacco.

Physical Education and Health 8**Course number: 6080**

The Physical Education program provides each student with the opportunity to participate in a comprehensive program consisting of skill development, team sports, individual sports, and physical fitness activities. The students receive instruction on rules, skills, and strategies associated with the different sports as well as learning experiences involving physical conditioning activities and lifelong physical activities. The program promotes the spirit of cooperation, leadership, fair play, teamwork and friendly competition. The Health curriculum is designed to give students skills and knowledge to make choices so they can live healthy lives. The health curriculum helps them become healthy persons who take an active role in protecting, maintaining, and improving their health. Health topics include mental health: stress, self-esteem, sleep, emotional health, stereotypes and empathy, conflict resolution and perceptions, eating disorders, fitness, nutrition, OTC/Prescription drug abuse, alcohol, and sex education.

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SCIENCE

The Marshall School Science Department strives to inspire creativity and wonder; promote critical thinking and analysis; encourage thoughtful interaction and communication; and engage students in an active learning environment. The Department utilizes the outdoor classroom, cutting-edge teaching techniques, and hands-on experiences to encourage scientific inquiry and discovery and to instill life-long ideals which promote a student's scientific curiosity and knowledge.

Science 4

Course number: 8040

Fourth grade scientists have the opportunity to experience many of the disciplines involved in the scientific world. Students learn about the scientific process, the design process, plants and animals, ecosystems, Earth's resources, Earth and space, matter, energy and heat, electricity, magnetism, and motion. Students will be exposed to a variety of labs and other hands-on experiences that reinforce classroom discussions and give students the foundation needed for understanding. The course offers an in-depth learning experience through hands-on labs, direct instruction, online lesson activities, group-based projects, and exploration of real-world scientific events.

Science 5

Course number: 8050

Scientists in fifth grade are given the opportunity to explore a wide variety of topics such as: inquiry and technology, design and function, classification, growth and survival, the human body, ecosystems, the water cycle and weather, Earth's surface, Earth and space, matter, forces and motion, and forms of energy. 5th grade scientists are exposed to a variety of labs and other hands-on experiences that reinforce classroom discussions and give students the foundation needed for understanding. The course offers an in-depth learning experience through hands-on labs, direct instruction, online lesson activities, group-based projects, and exploration of real-world scientific events. Science is all about being intellectually curious and trying to find answers to the vast mysteries of everything around us.

Science 6

Course number: 8060

The sixth grade science curriculum starts with an intensive study of the structure of the atom, the properties of the elements, and how elements combine and mix to form the world around us. Understanding the building blocks of our world then leads to units of inquiry on compounds, mixtures, wave energy, heat transfer and other physical science concepts. Utilizing hands-on projects, students investigate the laws of motion, the properties of light and sound, simple machines, energy, states of matter, and electricity. In each unit, students construct projects, design presentations, gather data, make inferences and use creative ways to share what they have learned.

Life Science 7

Course Number: 8070

Life Science is an introductory level course designed to enable students to explore basic biological concepts through hands-on activities. Students study concepts that are shared

by all living things such as cell structure and inheritance as they learn about the local plants and animals with an emphasis on what is pertinent at that time of the year. Students use nature journals to record their observations of nature at school and at home.

Earth Science 8

Course number: 8080

Students pursue a comprehensive study of the Earth, its place in the universe, the origin and transformation of its land surfaces and how its atmosphere produces the weather and climate in which we live. Real-time monitoring exercises (seismic, meteorological, and solar) are emphasized through internet applications and first person observations. Elements of chemistry and biology are introduced in preparation for biology. A wide variety of lab exercises are carried out each year. Field trips to Soudan Underground Mine and Gooseberry Falls State Park are highlights of the year.

SOCIAL STUDIES

The Middle School Humanities Department employs various methods to develop an appreciation for both the learning process and the subject matter. Teachers challenge students to think analytically, critically, and creatively as they explore new concepts and gain a broad knowledge base designed to enhance their understanding of an increasingly interdependent global society. Teachers choose course material that exposes students to a wide range of perspectives and experiences, striving to impart many of the values associated with being a global citizen, including ongoing development of social, political, ethical, and ecological consciousness. The department believes frequent and deep reading, writing, and discussion, scaffolded by both teacher and peers, are essential to accomplish these aims. Furthermore, students practice academic, fiction, and creative nonfiction writing and read a variety of genres to develop both a passion for literature and an understanding of literary analysis.

SS 4: US History

Course number: 9040

The fourth grade social studies curriculum focuses on American History. An emphasis is placed on regions and geography, Native American history, immigration, and the Revolutionary and Civil Wars. Students also study the political formation of the United States and learn about the people and forces that shaped our nation.

SS 5: Minnesota, Canada, and Latin America

Course number: 9050

The fifth grade social studies curriculum focuses on Minnesota history from the ice age to present-day Minnesota, students explore the people, events, and natural resources that make Minnesota what it is today. After an intensive exploration of Minnesota, students explore our nation's neighbors to the north and south, Canada and Latin America. Students study these regions from geographic and social standpoints. Students learn about the history, culture, and people of each region.

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SS 6: Ancient Civilizations

Course number: 9060

In grade 6, students study ancient civilizations. Beginning with the earliest civilization in Mesopotamia, they move to the study of the glorious Greeks and Romans. The year culminates with a look at China. Students study basic themes of each society, such as geography, economics, religion and philosophy, language, the arts, political science, and sociology.

Social Studies 7

Course number: 9070

This course is designed to “help young people make informed and reasoned decisions for the public good as citizens of a culturally diverse, democratic society in an interdependent world” (NCSS, 2011). Students develop critical thinking skills through research using the Modern Language Association (MLA) method of documentation. This method of research is used at Marshall in grades 7-12 in all disciplines. Research projects include individual and group projects in a variety of presentation methods: documented papers, primary research, booth presentation, posters for display, examining controversial issues, and politically cooperative urban design. Content includes introduction into eight disciplines of social sciences (psychology, sociology, anthropology, geography, history, economics, political science, and futures). Concepts and skills of the various disciplines are incorporated and examined.

World Geography 8

Course number: 9080

World Geography begins with an introduction to geographic concepts and map making/use during the first quarter. For the rest of the year students examine the history, cultures and spatial relationships countries have in Europe, the Middle East, South Asia, East Asia and Africa. Through reading, projects, presentations, Google Earth, and class discussion students explore the differences and similarities that we have with the people living in each region. More importantly they also discover new ways of looking at the world as they develop a new sense of the Earth’s global village. Students will gain an appreciation for the richness and variety of the histories and cultures that make up our planet through the examination of the people, places and events that have guided human history on our unique planet.

OTHER LEARNING OPPORTUNITIES**MORE Program**

A program that is designed to promote teamwork, leadership skills, and the Marshall core values of compassion, integrity, intellectual curiosity, and self-discipline, the purpose of the MORE program is to improve student interest in the environment of Northern Minnesota and provide a link from classroom experiences to the global world. The program emphasizes experiences that are educational, instructional, and helpful to the total development of the Marshall student.

Advisory Program

The Marshall Advisory program aims to promote a sense of connectedness and belonging among students and teachers. Advising is one way we strive to remain true to our mission: “to educate students to become global citizens who demonstrate strong academic habits, respect, compassion, integrity, self-discipline, and intellectual curiosity.” Students meet daily with a faculty advisor to explore topics important in the life of adolescents. The faculty advisor serves as a mentor and advocate for students in the group, providing an effective and friendly way to provide academic support. Advisors lead students in conversations about character development and actualization.

UPPER SCHOOL

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UPPER SCHOOL COURSE REQUIREMENTS

9th Grade

English 9 (or Honors)	1 credit
Mathematics *	1 credit
Biology (or Honors)	1 credit
World Religions	½ credit
American Government	½ credit
Health and Physical Education (A) and (B)	1 credit (may be taken in 10 th grade)

10th Grade

American Literature (or Honors)	1 credit
Mathematics *	1 credit
Chemistry (or Honors)	1 credit
Modern Global History (or Hon World History)	1 credit
Ethics	½ credit
Health and Physical Education (A) and (B)	1 credit (if not taken in 9 th grade)

11th Grade

English 11 (or Honors British Literature).....	1 credit
Mathematics *	1 credit
Science *	1 credit
European History (or Hon European History)	1 credit

12th Grade

English 12 (or AP English)	1 credit
Mathematics *	1 credit
Science *	1 credit
United States History (or Hon US History)	1 credit

To Be Completed Before Graduation

World Language	2 credits (must be 2 credits of same language in upper school)
Fine Arts	1 credit (including ½ credit visual arts)
Computer Science	½ credit
Marshall Community Service Hours	10 hours/year

***Level determined by department**

All students must successfully complete 5.5 credits yearly, a total of 22 credits in grades 9-12, in order to graduate. Classes that are not scheduled as part of a regular class period may not be counted as part of the 5.5 credits. Ordinarily, students may not retake prior courses for part of the 5.5 yearly credits. Please review the course offerings for specific departmental requirements.

Students enrolled in AP courses are expected to take the AP exam for that course in May. There is a nominal fee associated with taking each AP exam, usually around \$55 per exam. Exact fees are determined each spring, are the responsibility of the student's family, and are automatically added to the student's billing account.

All course offerings and sections are based on likely enrollment. Sections may be canceled or added based on enrollment. The School reserves the right to change student schedules when section enrollment or staffing needs warrant such.

Requirements for Graduation

English.....	4 credits
World Language.....	2 credits (must be 2 credits of same language in upper school)
Mathematics (including Algebra 2 and Geometry)....	3 credits
Social, Religious, & Ethical Studies.....	4½ credits (including 1 credit in Religion & Ethical Studies)
Science	3 credits
Fine Arts	1 credit (including ½ credit in visual arts)
Health and Physical Education	1 credit
Computer Science	½ credit (or pass technology portfolio)
Electives	3 credits
Community Service.....	10 hours/year

Community Service Requirement

The Community Service Requirement is an extra-curricular service requirement for all Upper School students. Its purpose is to provide experiences that will enable students to learn the inherent value of our society's highest ideals: serving others and the community. This concept is put into practice through organizational participation or individual initiative. Service must be pre-approved by the student's Class Dean or take place at a Marshall pre-approved location. Employment for pay and helping family members or relatives are not included, nor is any service that is part of an organized course, extracurricular activity, or club. Students are required to complete a Community Service Verification Form, with a supervisor's signature, for each service project they complete.

- Students must complete at least 10 hours of service for each year of attendance at Marshall School. Candidates for the National Honor Society (NHS) are required to submit 25 hours total in the year of induction. Please see the NHS advisor for more information.
- Student service projects must engage students in activities that meet the needs of others in some discernible way.
- The student is personally responsible for keeping track of and reporting the completion of required hours to his/her class dean by published and announced due dates. The official service hour verification form must be filled out completely by the student (including signatures) for hours to be credited.
- A maximum of half of a student's hours may come from service done directly with the school. The other half must come from off-campus opportunities at pre-approved non-profit organizations.
- Students completing more than 100 hours of service in one school year (including the summer before) qualify for the Centurion Award. This prestigious award recognizes students who complete a significant amount of service within a single school year. Service hours to be applied to the Centurion Award must be verified by the student's class dean by the last Thursday in April each year.

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FINE ARTS

Mission and Vision: The Fine Arts Program at Marshall School provides a creative environment with opportunities for students through music, visual art, and theater. The curriculum instills life-long appreciation for the fine arts, cultivates discipline, fosters enduring character traits, and equips students with skills of creativity, critical thinking, communication, and collaboration.

Philosophy: The Fine Arts Program at Marshall School provides a creative environment with hands-on opportunities for students through music, visual art, and theater. The curriculum is designed to develop fundamental skills within the fine arts, fostering creativity and curiosity through problem solving, critical thinking, and creative responses to complex themes. Fine Arts faculty maintain active artistic lives and bring real-world experience into the classroom. They also strive to provide opportunities through enriched fine arts experiences with local and international artists. Students are guided to become independent learners, lifelong participants, and appreciative patrons of the fine arts.

VISUAL ARTS

All studio art courses emphasize hands-on art making activities but also include slide presentation and discussion of cultural or historical art as context. Aesthetics and art criticism are studied and practiced as part of each art course. Certain art courses will integrate technology using a variety of computer software programs enhancing visual literacy and building technological fluency.

Visual Arts Requirements

One credit of Fine Arts, $\frac{1}{2}$ of which must be in visual arts, is required for graduation.

Drawing and Painting I/II

Course number: 152/153

Credit: $\frac{1}{2}$ credit

Grade level: 9-12 Elective

Students engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and art production leading to the creation of a portfolio of quality artworks. Students create drawings and paintings from real objects using observational techniques with the intention of creating realism. Level I utilizes processes such as sketching, rendering, contour, gesture, and perspective drawing. Media used includes, but are not limited to pencils, charcoal, colored pencils, watercolor/guache' and acrylic paint and canvas. Students in level II begin to develop a personal voice in their work. Media used include, but are not limited to, oils, acrylics, watercolor, pastels, and collage.

Honors Drawing and Painting III/IV

Course number: 165/175

Credit: $\frac{1}{2}$ credit

Grade level: 10-12 Elective

Prerequisite: Drawing and Painting II

Students in Honors Drawing and Painting III will select a medium as their primary focus for the term. Students will build a portfolio encompassing a large body of work

demonstrating mastery in the media of their choice: drawing: ink, charcoal, pencil, marker, etc., painting: acrylics, ink, oil, watercolor, etc. An AP Portfolio can be created through the duration of this course.

Ceramics I /II

Course number: 154/164

Credit: $\frac{1}{2}$ credit

Grade level: 9-12 Elective

Students in Ceramics I engage in sequential learning experiences that encompass art history, criticism, design, and aesthetics through the medium of clay. Ceramics I focuses on various hand-building techniques, while Ceramics II fuses alternative methods of firing, hand building sculptural forms, and throwing on the wheel.

Honors Ceramics III/IV

Course number: 185/186

Credit: $\frac{1}{2}$ credit

Grade level: 9-12 Elective

Prerequisite: Ceramics II

Students in Ceramics III continue their engagement with clay through sequential learning that further explores art history, criticism, design, and aesthetics of clay. This course fuses alternative methods of firing, hand building sculptural forms, and throwing on the wheel. Students will investigate texture and form through various types of clay including stoneware, stoneware with ochre and porcelain.

Videography

Course number: 180

Credit: $\frac{1}{2}$ credit

Grade level: 9-12 Elective

Students in Videography learn to use elements and tools of current and emerging technologies (iMovie, Photoshop, Final Cut Pro, etc.) to create works that express their ideas. Students are challenged to appreciate, analyze and create works through the moving image, stop-motion animation, sound, photography, digital arts and interactive media. This includes making digital art for websites, blogs, newsletters, and events. Students will learn to use digital video cameras, lighting, equipment, staging techniques and software applications.

Videography II

Course number: 181

Credit: 1/2 credit

Grade level: 9-12 Elective

Prerequisite: Videography I

Students engage in sequential learning experiences that encompass film history, film & art criticism, and short film production leading to the creation of a portfolio of quality works. Students will continue their exploration of light, sound, and motion as a method of visual expression. While continuing to develop technical skills, students will begin to develop a personal voice in their work. Media used will include but not be limited to: animation, GIF, title sequencing, short film, advertisements and media arts.

Honors Videography III/IV

Course number: 182/183

Credit: 1/2 credit

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Grade level: 9-12 Elective

Prerequisite: Videography II

Students in Honors Videography III will select a film style/medium as their primary focus for the term. Students will build a portfolio encompassing a large body of work demonstrating mastery in the media of their choice i.e. documentary film, animation, advertisement, short film.

Photography I/II

Course number: 159/168

Credit: ½ credit

Grade level: 9-12 Elective

Students in Photography I create photographs using a variety of tools and processes. Students will explore basic photography, including 35mm camera and computer techniques, composition, history, and ways of interpreting a variety of subject matter. NOTE: Students will be expected to purchase supplies for this course. Specific information concerning camera requirement is available from the instructor.

Honors Photography III/IV

Course number: 169/170

Credit: ½ credit

Grade level: 9-12 Elective

Prerequisite: Photography II

Students in Honors Photography III create photos, films, and videos using a variety of photographic techniques. Emphasis on digital photography and technical work as well as alternative processes and image manipulation will be the focus. NOTE: Students will be expected to purchase supplies for this course. Specific information concerning camera requirement is available from the instructor. An AP Portfolio can be created through the duration of this course.

Graphic Design I/II

Course number: 176/177

Credit: ½ credit

Grade level: 9-12 Elective

Students in Graphic Design engage in understanding visual literacy, art history, contemporary design and aesthetics. Students explore typography, logo design, illustration, video, and photography to create innovative ways to communicate through art and graphic design. Class includes hand building projects and utilizing computer software such as Photoshop, Illustrator, Bridge, iMovie, etc.

Honors Graphic Design III/IV

Course number: 178/179

Credit: ½ credit

Grade level: 10-12 Elective

Prerequisite: Visual Communications II

Students in Graphic Design engage in sequential learning experiences that encompass art history, criticism, design, and aesthetics. Students continue to learn skills of commercial design including 2-dimensional and 3-dimensional design practices. An AP Portfolio can be created through the duration of this course.

IS AP Studio Art

Course number: 100

Credit: 1 credit (requires full year commitment)

Grade level: 11-12 Elective (IS by arrangement)

Prior to recommendation for enrollment, student must have taken at least one honors art class, 3 art classes, and /or demonstrate, the spring prior, a comprehensive portfolio. Student must be knowledgeable in visual processes and principles and be able to work independently to build a portfolio for submission to the Advanced Placement board.

MUSIC

The music program at Marshall includes band, choir, orchestra, jazz band, chamber singers, and chamber strings. The overall focus is to promote musicianship and foster a deeper understanding and appreciation of music. Students are encouraged to develop strong independent practice habits, respect each other's varied talents and abilities, and learn the value of music in culture and daily life.

Concert Choir

Course number: 106

Credit: 1 credit

Grade level: 9-12 Elective

Concert Choir is open to students who enjoy singing and have an appreciation for learning choral music literature of various styles, cultures, and languages. Expectations include concert attendance, daily participation, continued progress in vocal technique and development through voice lessons, and attendance at outside arts events. Students participate by singing in a large group ensemble. Singers develop correct vocal techniques by incorporating vocal warm-ups, physical stretches, solfege, sight singing, and music theory into daily rehearsals. The repertoire includes choral literature that teaches the mechanics of vocal production, builds musicianship, and develops an ability to blend and sing in harmony, which demonstrates the aesthetics of music. The choir participates in three major concerts throughout the year, school chapel services, community events, and the MSHSL Large Group Music Contest.

Honors Concert Choir

Course number: 105

Credit: 1 credit

Grade level: 10-12 Elective

Prerequisite: Director's recommendation

Honors Choir students are members of the Concert Choir. These advanced singers have reached an outstanding level of musicianship and serve in leadership roles. These students study individually using advanced solo literature to be performed at the MSHSL music contest.

Chamber Singers

Course number: 147

Credit: ½ credit per year

Grade level: 10-12

Prerequisite: Concert choir member; audition

Chamber Singers are a small balanced group of vocal singers selected by audition, usually selected from the Concert Choir. Rehearsal times occur during the school day during lunch and CT but special practices may be called outside of the school day if needed, so a high degree of commitment is expected. The Chamber Singers perform for school events, chapels, concerts, community events, sporting events, and the MSHSL Music Contest.

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Concert Orchestra

Course number: 117

Credit: 1 credit

Grade level: 9-12 **Elective**

This course has students perform daily in large group and small ensembles. Students work on improving their musical skills for string instruments by playing a variety of musical styles, improvising, composing, music listening, and incorporating music theory and music history. The orchestra participates in three major concerts throughout the year, school events, community events and the MSHSL Large Group music contest. Advanced students in orchestra have the opportunity to also participate in Chamber Strings.

Honors Concert Orchestra

Course number: 118

Credit: 1 credit

Grade level: 10-12 **Elective**

Prerequisite: Recommendation of director

Honors Orchestra students are members of the Concert Orchestra. They are selected by audition. These advanced strings students have reached an outstanding level of musicianship and serve in leadership roles in their respective sections. These students fulfill all the requirements of Concert Orchestra and also participate in Chamber Strings as part of the requirement of this honors course. These students study privately and are also required to perform a solo at the MSHSL music contest.

Concert Band

Course number: 126

Credit: 1 credit

Grade level: 9-12 **Elective**

Concert Band's focus is the continued development of each student's musicianship and musical knowledge. All Concert Band students are exposed to the study of serious concert music and lighter popular arrangements as well as elements of pep band, marching band, and solo/ensemble contest. They are also offered the opportunity to participate in the Minnesota Music Listening Contest and Jazz Band. The band performs regularly at concerts, athletic events, assemblies, parades, ceremonies, and chapel services.

Honors Concert Band

Course number: 127

Credit: 1 credit

Grade level: 10-12 **Elective**

Prerequisite: Recommendation of director

In addition to the requirements of Concert Band, students enrolled in Honors Concert Band must maintain a very high level of musicianship, engage in additional practice hours, and perform a solo at the solo/ensemble contest. They must also take a leadership role in the band and design at least one major project under the supervision of the director.

Jazz Band

Course number: 136

Credit: ½ credit per year

Grade level: 9-12 **Elective**

Prerequisite: Audition or approval of director (open to saxes, trombones, trumpets, piano, guitar, bass, and percussion)

Jazz Band meets on an arranged schedule both inside and outside of the school day. Music is selected and performed with variety of style and improvisation in mind. The Jazz Band performs at each of the three concerts during the year as well as for solo/ensemble contest and various other events.

COMPUTER SCIENCE

Students may satisfy the Computer Science graduation requirement either by passing a Computer Science course or by successfully completing the Technology Proficiency Portfolio. Students in the class of 2019 may also pass a proficiency exam one time during their upper school career. If a student does not demonstrate technology proficiency prior to fall semester of the senior year, the student will be required to enroll in a Computer Science class.

Technology Proficiency Portfolio

Course Number: 224

Credit: No credit awarded

Grade level: 9-11

Students may demonstrate their technology proficiency through a portfolio-based system using a modified version of the [ISTE-NETs](#). With the help of an advisor, students complete a narrative linking current and past course work to the technology standards in the areas of creativity, communication, critical thinking and problem solving, innovation, research literacy, digital citizenship, and technology troubleshooting.

Introduction to Computer Science

Course number: 217

Credits: ½ credit

Grade level: 9-12 **Elective**

Prerequisite: Algebra 2 (concurrent or completed)

This course is designed to offer a hands-on introduction to computer science and how it impacts our everyday lives. Students learn fundamental concepts of how software works and how to apply those concepts to solve real problems. The course will cover topics like creating computer programs, building games, and discussing technology's influence in today's world.

AP Computer Science Principles

Course number: 220

Credits: 1 credit

Grade level: 10-12 **Elective**

Prerequisite: Algebra 1 (10th grade students require instructor approval)

AP Computer Science Principles is a rigorous, entry-level course that introduces high school students to the foundations of modern computing. The course covers a broad range of foundational topics such as programming, algorithms, the internet, big data, digital privacy and security, and the societal impacts of computing. The curriculum assumes no prior knowledge of computing, is written to support students who are new to the discipline, and is accessible to all students, especially those in groups typically underrepresented in computing.

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ENGLISH

The English Department strives to challenge its students to solve problems; to think critically and creatively; to write comprehensively, accurately, and succinctly; to listen carefully; to speak passionately and persuasively; to read widely, broadly, and deeply; and to examine themselves and their place in the world.

English Requirements

Four credits are required for graduation, including the following courses:

- English 9 or Honors English 9
- American Literature or Honors American Literature,
- English 11 or Honors British Literature, and
- English 12 or AP English.

English 9/Honors English 9

Course number: 331/332 (Honors)

Credit: 1 credit

Grade level: 9 **Required**

Students will explore *identity* by reading and discussing short-stories, poetry, a memoir, an autobiography, fiction, and a play. Longer works may include *First Sightings: Contemporary Stories of American Youth* (Loughery), *Night* (Wiesel), *Black Boy* (Wright), *The Absolute True Diary of a Part-time Indian* (Alexie), and *Macbeth* (Shakespeare). Students will hone critical-thinking and communication skills by engaging in student-led discussions. They connect ideas in literature to the world at large and their own experiences. They will think critically, and write and speak persuasively. Students will pursue topics of personal interest through multiple projects. By the end of the year, students will have a firm grasp of core literary terms, literary conventions, discussion tactics, writing techniques, research skills, presentation skills, and peer collaboration. Students seeking honors credit will complete additional advanced coursework.

American Literature

Course number: 341

Credit: 1 credit

Grade level: 10 **Required (if not taking Hon. Am. Lit.)**

Prerequisite: English 9

The primary focus of this course is American Literature through literary analysis, close reading, collaboration, and critical thinking. Students explore the various facets of writing, of analysis, of creativity, and frequently work together to create unique and insightful projects, which may include a Horror Story Audio Drama, a website, videos, infographics, and traditional literary analysis essays. Students frequently pursue topics of individual interest and are encouraged to strike out on their own on nearly every project. This is also a language arts class, so students will work on their writing mechanics, improve their logic, practice their research and citing skills, and hone their media literacy skills. Students read a variety of works, which may include *Slaughterhouse Five* (Vonnegut), *Of Mice and Men* (Steinbeck), *The Road* (McCarthy), *The Awakening* (Chopin), *A Raisin in the Sun* (Hansberry), *The Color Purple* (Walker), and *Catcher in the Rye* (Salinger); short stories, with selections by Flannery O'Connor, Zora Neale Hurston, Stephen Crane, Ernest Hemingway, Joyce Carol Oates, William Faulkner, and others; and non-fiction, plays, poems, and essays.

Honors American Literature

Course number: 364

Credit: 1 credit

Grade level: 10 **Required (if not taking Am. Lit.)**

Prerequisite: English 9, department recommendation, and summer assignment.

The primary focus of this course is American Literature through literary analysis, close reading, collaboration, and critical thinking. Students explore the various facets of writing, of analysis, of creativity, and frequently work together to create unique and insightful projects, which may include a Horror Story Audio Drama, an "American Masters" Website, videos, infographics, and traditional literary analysis essays. Students frequently pursue topics of individual interest and are encouraged to strike out on their own on nearly every project. Students will read a variety of works, which may include *Of Mice and Men* (Steinbeck), *The Old Man and the Sea* (Hemingway), *Slaughterhouse Five* (Vonnegut), *The Color Purple* (Walker), *The Road* (McCarthy), and *A Raisin in the Sun* (Hansberry); short stories, with selections by Flannery O'Connor, Zora Neale Hurston, James Baldwin, Stephen Crane, Ernest Hemingway, Joyce Carol Oates, William Faulkner, and others; and non-fiction, plays, poems, and essays.

English 11

Course number: 357

Credit: 1 credit

Grade Level: 11 **Required (if not taking Honors Brit Lit)**

Prerequisite: English 9, American Literature

English 11 is designed to build basic skills in writing, research, and public speaking. In this class, students write frequently, participate in discussions, and give oral presentations (including memorizing and reciting a poem for Poetry Out Loud). Special emphasis is placed on the metacognitive skills of revision and reflection. Both semesters are organized around a literature unit that offers students the opportunity to practice writing and speaking about themselves and also to improve their ability to analyze literature and engage in academic research. Shorter, individual assignments lead to longer, collaborative projects; students should expect to extend their abilities to work in groups and be self-directed. Students maintain a blog where they publish their work. Late in the spring, students draft their College Application Essay. Texts may include *Rita Hayworth and Shawshank Redemption* (King), *A River Runs Through It* (Maclean), selected Sherlock Holmes short stories (Doyle), *The Curious Incident of the Dog in the Night-time* (Haddon), and *They Say/I Say* (Graff & Birkenstein).

Honors British Literature

Course number: 373

Credit: 1 credit

Grade level: 11 **Elective (satisfies required coursework)**

Prerequisite: American Literature (or Honors), department recommendation, and summer assignment

This course focuses on honing critical thinking and close reading skills and developing sophisticated reading and writing habits while exploring British literature. Students read many major English writers, such as William Shakespeare, William Wordsworth, John Keats, Jane Austen, Virginia Woolf, George Orwell, Lewis Carroll, and others. In addition to

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practicing and improving their critical thinking and interpretive skills, students will also learn about literary periods, about the politics and cultures of those periods, and about the authors themselves. Students will also continue their study of grammar, punctuation, writing mechanics, research, public speaking, and vocabulary skills and knowledge. There will also be numerous opportunities for students to be creative, self-guided, and collaborative.

English 12

Course number: 358

Credit: 1 credit

Grade Level: 12 Required (if not taking AP English)

Prerequisite: English 11 or Honors British Literature

Students read a wide variety of classic and contemporary literature and focus on responding critically to that literature through student-led discussions and written analysis, including research-based writing and creative projects. Students should expect to extend their abilities to work in groups and be self-directed. Students also take ownership of a blog in which they showcase independent work. Major units focus on experiments in narrative perspective, issues of identity, and variations on the archetypal "Hero's Journey." Students also memorize and recite a poem for Poetry Out Loud. Major texts include, but are not limited to, *Flight* (Alexie), *The Things They Carried* (O'Brien), *The Lovely Bones* (Sebold), *A Doll's House* (Ibsen), *Twelfth Night* (Shakespeare), selected contemporary poetry, and *They Say/I Say* (Graff & Birkenstein).

AP English Literature and Composition

Course number: 377

Credit: 1 credit

Grade level: 12 Elective (satisfies required coursework)

Prerequisite: Honors British Literature, department recommendation, and summer assignment

The goal of this course is to develop critical reading and writing skills, in preparation for the Advanced Placement Examination in Literature and Composition and for college English courses, by offering qualified seniors the opportunity to do college-level coursework. Students admitted to this advanced course are expected to demonstrate a special interest in literature, to work hard and consistently to develop independence of thought and mature habits of critical thinking. Classroom discussion and active participation, as well as frequent writing assignments (including in-class essays), are crucial means to this end. Students write formal and informal papers, make presentations (including memorizing and reciting a poem for Poetry Out Loud), do a creative project each semester, and take ownership of a blog in which they showcase independent work. Major texts include *Frankenstein* (Shelley), *Jane Eyre* (Brontë), *Wide Sargasso Sea* (Rhys), *Othello* (Shakespeare), *A Doll's House* (Ibsen), World War I poetry, *The Things They Carried* (O'Brien), and *They Say/I Say* (Graff & Birkenstein).

College Prep English 1/College Prep English 2

Course number: 399/398

Credit: 1 credit

Grade level: 9-12

This college preparatory English course is a blended course designed for international students for whom English is a

foreign language. Students often experience a discrepancy between their content knowledge and the academic language they need to express this content. This is why students, depending on their English proficiency, can enter into CPE 1 or CPE 2. Students work to improve reading, writing, listening and speaking skills, as well as vocabulary building with the support of Middlebury Interactive, a learning program specifically designed to support English Language Learners with project-based learning. Differentiation allows for students to continue working on their English language skills for up to three years.

Advanced College Prep English

Course number: 397

Credit: 1 credit

Grade level: 9-12

This course is designed for international students at Marshall School for whom English is not their native language. After one or two years of immersion, English language learners' conversational English typically improves whereas their ability to write and think critically, and with accuracy, often still requires further focus. In this course, students work on understanding the conventions of writing and grammar and how it specifically applies to the revision process. They learn how to state a thesis, support it with research, and to correctly cite their sources. They investigate the research process itself by developing strategies on how to consume information and apply critical thinking in the research process. Some of these strategies include learning note-taking skills to avoid plagiarism, with specific attention to processing information and linking information to a source with the use of NoodleTools and other methods. Students prepare for college by writing academic essays such as a personal narrative, a research paper, an argumentative essay, and so on. Students also learn how Latin roots help them decode a vast academic vocabulary, and they prepare for proficiency exams such as the TOEFL, ACT, and SAT.

WORLD LANGUAGES

The main goal of the Marshall School World Languages Department is to ensure that each student becomes proficient in at least one world language. World Languages Department courses endeavor to increase students' cultural awareness and mastery of grammar while developing all four language skills: listening, speaking, reading, and writing. Communicative proficiency is emphasized at all levels.

World Languages Requirements

The minimum graduation requirement is the completion of two years in one language taken in grades 9-12. Students are encouraged to pursue their language studies throughout their career at the school and to explore the possibility of studying a second non-English language while still in high school. Students must earn a teacher recommendation in order to continue in the Upper School language courses at Level III and above.

German II

Course number: 432

Credit: 1 credit

Grade level: 9-12 Elective

Prerequisite: German I and department recommendation.

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In German II, students build their vocabulary and become more proficient at communicating with speakers of German. Students learn how to work with authentic materials to decode vocabulary and understand their meaning. Materials include prose, poetry, articles, video clips, original feature movies, songs, games, visuals and podcasts. Students complete an autobiographical project and read a chapter book. They learn new grammatical structures such as adjective endings, the genitive case, and reflexive verbs.

German III/Honors German III

Course number: 433/476 (Honors)

Credit: 1 credit

Grade level: 9-12 Elective

Prerequisite: German II and department recommendation. German III/Honors German III is an inspiring course for intermediate speakers of German. Students will integrate their interpersonal, interpretive and presentational communication skills and deepen their understanding of cultures in German-speaking countries. Students work with authentic materials including prose or poetry from selected authors, articles from online news magazines such as Deutsche Welle and Spiegel-TV, video clips, feature movies, songs, and podcasts. Students will learn reading strategies to help them identify and decode key vocabulary and comprehend the context. They learn the grammatical structures subjunctive II, past perfect, future perfect, passive voice, infinitive and relative clauses. Students will complete a history project in a medium of their choice, study the classical German author Johann Wolfgang von Goethe, and re-enact one of his works.

Honors German IV

Course number: 477

Credit: 1 credit

Grade level: 9-12 Elective

Prerequisite: Honors German III and department recommendation.

Honors German IV is a challenging course for students who are transitioning to being advanced speakers of German. Students work with authentic materials, and they learn advanced grammatical structures including indirect speech, masculine-n nouns, and pragmatic expressions. Student will complete a literature project in a medium of their choice and study the Nibelungenlied or in alternate years the works of Franz Kafka. They will study business German and write a cover letter and resume as well as conduct mock interviews. Students become thoroughly familiar with the AP German Language and Culture Exam to be well prepared when they take it next year. NOTE: Depending on enrollment, Honors German IV and AP German V may be combined into one AP class.

AP German Language

Course number: 479

Credit: 1 credit

Grade level: 9-12 Elective

Prerequisite: Honors German IV and department recommendation.

AP German Language and Culture is a challenging course for students in their fourth or fifth year of studying German.

Students work with authentic materials, and they review or learn advanced grammatical structures such as indirect speech, masculine-n nouns, and pragmatic expressions. Students will design projects that reflect their personal interests in music, theater, creating an online content, and writing and publishing a children's book. They will study the Nibelungenlied or in alternate years the works of Franz Kafka. Students complete activities from AP German Language and Culture Exam including one full practice version, and they take the actual AP Exam in May.

French II

Course number: 412

Credit: 1 credit

Grade level: 9-12 Elective

Prerequisite: French I and department recommendation. French II is a continuation of the French I curriculum and emphasizes communication skills. In order to communicate in the language, students continue to develop four skills: listening, speaking, reading and writing. A greater emphasis is also placed on grammar. The teacher uses primarily French in class to promote oral and listening proficiency. English is used for in-depth explanations when needed. Topics studied emphasize the everyday life of adolescents in French-speaking cultures to promote students' cultural understanding and appreciation as well as language development. French II students use the most current materials to learn to communicate confidently in the modern francophone world. The program includes a multimedia eBook, a workbook, readings, eVisuals, digital flash cards, games and more that allow learners to experience the French language and francophone culture and treats them as social actors with digital resources.

French III/Honors French III

Course number: 413/472 (Honors)

Credit: 1 credit

Grade level: 9-12 Elective

Prerequisite: French II and department recommendation.

College Preparatory French III is an engaging course for intermediate learners of French, while Honors French III is a fast-paced and challenging course for intermediate learners of French who intend to continue with French throughout their time in the Upper School. Students continue to communicate using a variety of new verb tenses: imperfect, future, conditional, etc. They engage with and explore other Francophone cultures through authentic materials including literature, films, online news programs, magazines and newspapers, and podcasts. French III students continue to hone their reading skills by reading *Le Voyage Perdu* during the second semester travel unit which is designed to help students "get by" while traveling in a French-speaking country. Honors III students begin their exploration of French literature by reading and discussing *Le Petit Prince*. Students in Honors III take the National French Exam in March, while students in French III have an option to take the test.

Honors French IV

Course number: 474

Credit: 1 credit

Grade level: 9-12 Elective

Prerequisite: Honors French III and department recommendation.

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Honors French IV is a challenging course for students who are transitioning to being advanced learners of French. Students begin a comprehensive analysis of the skills required for the AP French Language & Culture Exam. This thought-provoking course emphasizes the use of language for active communication and is centered on three of the following AP themes: Public & Personal Identities, Science & Technology, Global Challenges, Contemporary Life, Families & Communities, and Beauty & Aesthetics. Students work with authentic written and audio sources and demonstrate their understanding through lively discussions, persuasive essays, and by completing projects and presentations. All students take the National French Exam in March, and they have the opportunity to take the AP French Exam in May.

AP French Language

Course number: 478

Credit: 1 credit

Grade level: 11-12 Elective

Prerequisite: Honors French IV and department recommendation.

In AP French Language & Culture, students cover the remaining three AP themes from among the following: Public & Personal Identities, Science & Technology, Global Challenges, Contemporary Life, Families & Communities, and Beauty & Aesthetics. Students review the essential skills required for the AP Exam, and they continue actively communicating with their peers and members of the Francophone community. As with the Honors IV French course, students work with authentic written and audio sources and demonstrate their understanding through lively discussions, persuasive essays, and by completing projects and presentations. Students take the National French Exam in March, and all students take the AP French Exam in May.

NOTE: Depending on enrollment, Honors French IV and AP French V may be combined into one AP class.

Spanish I

Course number: 401

Grade level: 9-11

Credit: 1 credit Elective

The Spanish I course is an introduction to the basic structure, vocabulary, and practical use of the language. Listening and speaking skills are practiced daily with question-and-answer work, directed-pairs work and role playing. Authentic reading and writing practice revolves around thematic vocabulary units or topics related to the cultures, traditions, and geography of the Spanish-speaking world. Students study structures that allow them to communicate about present, past, and future events.

Spanish II

Course number: 402

Credit: 1 credit

Grade level: 9-12 Elective

Prerequisite: Spanish I and department recommendation.

In Spanish II, students further their proficiency in reading, writing, speaking and understanding spoken Spanish as well as increasing their knowledge of cultures of the Spanish-speaking world. Reading and writing revolves around thematic vocabulary groups and cultural topics relatable to students' lives. Listening and speaking skills are emphasized through daily oral participation in class, interaction with the

teacher and peers in Spanish, regular oral assessments, and listening comprehension work with authentic audio and video materials. Materials include prose, poetry, articles, video clips, original feature movies, songs, games, visuals and other online resources.

Spanish III/Honors Spanish III

Course number: 404/471 (Honors)

Credit: 1 credit

Grade level: 9-12 Elective

Prerequisite: Spanish II and department recommendation.

In Honors Spanish III, students continue to develop proficiency in reading, writing, speaking, and understanding spoken Spanish. Listening and speaking skills are emphasized through daily oral participation in class, interaction with the teacher and peers in Spanish, regular oral assessments, and listening comprehension work with authentic audio and video materials. In addition to studying language and its structures, students further their study of the cultures of the Spanish-speaking world. Short stories and articles are used to introduce cultural concepts less familiar to students. Students practice their informal writing skills needed for composing emails and letters and begin to develop more formal styles of writing when making cultural comparisons. More advanced grammar and vocabulary are introduced through authentic sources such as poetry, articles, video clips, songs, and other online resources. Students review past grammar topics and learn correct usage of the preterit and imperfect, future, conditional, present perfect, and pluperfect tenses as well as the distinction between *por* vs. *para*.

Honors Spanish IV

Course number: 473

Credit: 1 credit

Grade level: 10-12 Elective

Prerequisite: Honors Spanish III and department recommendation.

Honors Spanish IV is the first year of a two-year AP curriculum. The course focuses on the study of history, cultures, contemporary issues, and literature of the Spanish-speaking world. Regular class discussions require students to work towards greater oral spontaneity and fluency while discussing, analyzing, and integrating information from authentic stories, articles, news clips, podcasts, short documentaries, and poetry. Written work includes extensive practice developing formal persuasive essays, as well as formal and informal written communications a native speaker would be required to write in a wide variety of everyday situations. Students also read and discuss one novel, during the third or fourth quarter. Grammar is taught and reviewed based on the needs of individuals and the class as a whole. All students enrolled in this course will take the AP Spanish Language and Culture Exam in May. This course is taught entirely in Spanish and is taught as an embedded course with AP Spanish Language.

AP Spanish Language

Course number: 484

Credit: 1 credit

Grade level: 11-12 Elective

Prerequisite: Honors Spanish IV and department recommendation.

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In Advanced Placement Spanish Language and Culture focuses on the study of history, cultures, contemporary issues, and literature of the Spanish-speaking world. Regular class discussions require students to work towards greater oral spontaneity and fluency while discussing, analyzing, and integrating information from authentic stories, articles, news clips, podcasts, short documentaries, and poetry. Written work includes extensive practice developing formal persuasive essays, as well as formal and informal written communications a native speaker would be required to write in a wide variety of everyday situations. Students also read and discuss one novel, during the third or fourth quarter. Grammar is taught and reviewed based on the needs of individuals and the class as a whole. All students enrolled in this course will take the AP Spanish Language and Culture Exam in May. This course is taught entirely in Spanish. This course is the second year of the AP curriculum and is taught as an embedded course with Honors Spanish IV.

MATHEMATICS

In following the Marshall School mission statement, it is the belief of the math department that a solid education in mathematics is key to a student's success in life. It is the philosophy of the mathematics department at Marshall School that all students are capable of experiencing success in middle and upper school mathematics given that the student has a thorough knowledge and understanding of basic mathematical concepts. The math department strives to challenge students to become independent life-long learners and analytical thinkers. Students should be able to communicate effectively about and through mathematics, orally and in writing, understanding and explaining the processes rather than simply being able to find answers.

Providing a good math education means providing opportunities for hands-on exploration of mathematical concepts wherever it is possible. It is very important that students are accepted at whatever stage they may be at in their mathematical career. This acceptance must come from instructors, peers and parents alike. Students are encouraged to get extra help when they have fallen behind or are preparing for an upcoming test, and they are more likely to do so when they feel this acceptance.

Mathematics Requirements

Students are required to pass Algebra, Algebra II, and Geometry for graduation. In each of these classes there are honors and non-honors options and each student is encouraged to take the path that fits best. A graphing calculator is required for all math classes above Algebra 1.

Algebra I

Course number: 533

Credit: 1 credit

Grades: 9 Required

Prerequisite: Math 8 or department recommendation.

Students reinforce their basic algebraic knowledge of the number system equations, and inequalities. Students then work with exponents and roots, polynomials, factoring, quadratics, and rational expressions. Special emphasis is placed on problem solving and using math in a real world

setting, and students use technology to help them efficiently evaluate solutions.

Algebra II

Course number: 552

Credit: 1 credit

Grade level: 9-11 Required

Prerequisite: Algebra I

Algebra II topics covered include: linear functions, matrices, polynomial functions with an emphasis on quadratic functions, algebraic manipulation and simplification, exponential and logarithmic equations, solving equations, counting and probability, and sequences and series. If time allows, the instructor will select additional topics to supplement the course. A very high level of competence in the material covered in this course is required for departmental approval for Honors Geometry.

Honors Algebra II

Course number: 573

Credit: 1 credit

Grade level: 9-11 Required (if not taking Algebra II)

Prerequisite: Honors Algebra I and department recommendation.

Algebra I skills are built upon and new Algebra II topics are explored in greater scope and depth. Technology is used in the form of both graphing calculators and computers. A high level of competence in the material covered in this course is required for departmental approval for Honors Geometry. Topics covered include: linear functions, quadratic functions, rational functions, polynomial functions and their graphs, systems of equations, complex numbers, rational expressions, exponential and logarithmic equations, sequences and series, and probability.

Geometry

Course number: 541

Credit: 1 credit

Grade level: 10-12 Required

Prerequisite: Algebra II or Honors Algebra II

Geometry deals with the study of shapes. In this class we will work together to develop and apply a variety of formulas which are used to measure lengths, areas and volumes of geometric figures. The study of geometry is rooted in logic and we will spend time working on proving theorems in a two-column format and in paragraph proof form. The use of straight edges and compasses will be used in construction proofs.

Honors Geometry

Course number: 572

Credit: 1 credit

Grade level: 10-12 Required (if not taking Geometry)

Prerequisite: Honors Algebra II and department recommendation.

Honors Geometry will cover topics similar to the geometry course, but at a faster pace and in greater depth. Students will spend much of the first semester mastering two-column proofs and learning definitions of a wide variety of geometric terms. The second semester is primarily involved with developing and applying formulas to calculate lengths, areas and volumes of geometric figures. Group work is a big part of

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this course and students are encouraged to learn geometric truths through cooperative learning and discovery methods.

Finite Math**Course number:** 555**Credit:** 1/2 credit**Grade level:** 11-12 Elective**Prerequisite:** Algebra II and Geometry

Finite Math is a course designed to better prepare a student for Precalculus or provide additional work on Algebra skills before entering college. Finite math reviews many algebra concepts and utilizes technology to bolster understanding. Topics covered will include, but are not limited to, graphing of polynomials, trigonometry, matrix operations, functions, conics, and statistics. Class size for this course is usually small, so the course will in part be designed around the students' areas of need.

Discrete Math with Applications**Course Number:** 556**Credit:** ½ credit**Grade level:** 11-12 Elective**Prerequisite:** Algebra II and Geometry

This course will use sophisticated mathematics to enable our students to better understand basic economic concepts and how to apply them to their personal finances. We will be using algebra, probability, statistics and geometry to solve financial problems that occur in everyday life. The real world problems we will face in this course include investing, credit, banking, auto insurance, mortgages, income taxes, budgets and retirement planning. We will be working hands-on with technology and real-world mathematical modeling to further our understanding of how money works.

Pre-Calculus**Course number:** 554**Credit:** 1 credit**Grade level:** 11-12 Elective**Prerequisite:** Finite Math or Algebra II and Geometry; department recommendation.

This course will prepare students for Calculus and will study in-depth the following topics: functions, trigonometry, probability, sequences and series, exponents and logarithms, and matrices. Students planning on taking AP Calculus should enroll in the Honors Pre-Calculus course.

Honors Pre-Calculus**Course number:** 577**Credit:** 1 credit**Grade level:** 10-12 Elective**Prerequisite:** Honors Algebra II and Honors Geometry or Finite Math and department recommendation.

Topics covered include functions, probability, algebraic simplification, polynomials, rational functions, conics, limits, vectors, matrices and trigonometry. The study of trigonometry is extensive and will constitute a large part of the curriculum. If time permits additional topics will include polar coordinates, sequences and series. Unit tests in this course are given in two parts - one with calculators and one without. Students are expected to use technology to help with their understanding, but not rely on it solely.

Calculus**Course number:** 582**Credit:** 1 credit**Grade level:** 12 Elective**Prerequisite:** Finite Math or Honors Pre-Calculus and department recommendation.

Calculus is designed as a beginning calculus course for students planning on studying business, management, economics or social and life sciences. The objective is to provide a mastery of basic calculus topics. Group work will constitute a large part of class time and students are expected to be active participants. Topics covered include a brief Precalculus review, limits, continuity, derivatives and rules for differentiation, integration and numerous techniques for taking integrals.

AP Calculus AB**Course number:** 574**Credit:** 1 credit**Grade level:** 10-12 Elective**Prerequisite:** Honors Pre-Calculus and department recommendation.

It is assumed that the students entering this course have a near mastery of topics covered in Honors Precalculus, as there is no review at the beginning of the year. Calculus is a mathematical tool for studying problems that involve motion and changing rates. It is widely used in many different fields of study including mathematics, engineering, physics, biology, chemistry and economics. In this course, students study limits, derivatives, applications of derivatives, differentials, integrals, analytic geometry and applications of integrals.

AP Statistics**Course number:** 575**Credit:** 1 credit**Grade level:** 11-12 Elective**Prerequisite:** Pre-Calculus and department recommendation.

This course is designed to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. The four main themes of the course are exploring data, sampling and experimentation, anticipating patterns and statistical inference. During the course, students will plan and execute a statistical study of their own. Students taking this course are expected to take the AP Statistics exam in the spring.

PHYSICAL EDUCATION/HEALTH

The Marshall School Physical Education and Health Department is committed to providing students with the knowledge and skills necessary to link Health and Physical Education to the foundation of a healthy, productive, and fulfilling life.

Physical Education/Health Requirements

One credit of Physical Education and Health is required.

Health and Physical Education A/B**Course number:** 609/621**Credit:** ½ credit each

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Grade level: 9-10 Required

A variety of health topics are taught to enable students to improve their knowledge of healthy lifestyles, health habits and stronger decision-making skills. These skills will allow students to make better long and short-term decisions regarding health issues in their lives and the lives of friends and family. Topics include diseases (communicable and non-communicable), alcohol and driving, social health, relationships, digital citizenship, CPR, mental health, and sexually transmitted infections/sexual health. This PE course is designed to enhance and develop a person's individual interests and talents in team and individual sports and activities. Units include large group games, badminton, team sports, tennis, basketball, and volleyball.

Fitness for Life

Course number: 650

Credit: ½ credit

Grade level: 10-12 Elective (may be taken twice)

In this course, students will be challenging their bodies and minds to develop an understanding of fitness through a cardio emphasis. The class atmosphere encourages a favorable attitude toward physical fitness and life sports. Topics covered include suspension training, kettlebells, fitness ball routines, cardio routines, pilates, and kickboxing. Yoga and P90X training may also be incorporated into our time together. Life sports of tennis, badminton, pickleball will be included.

Weight Training PLUS

Course number: 653

Credit: ½ credit

Grade level: 10-12 Elective (may be taken twice)

Weight Training PLUS is an elective course for students interested in increasing athletic ability through a personalized program. The semester will include an introduction to kinesiology through shorter units of study in areas like beginner kettlebells, boot camps, and yoga. Students will receive instruction on the use of fixed and free weights and the benefits of consistent, programmed routines. Proper technique and safety are stressed.

SCIENCE

The Marshall School Science Department strives to inspire creativity and wonder; promote critical thinking and analysis; encourage thoughtful interaction and communication; and engage students in an active learning environment. The Department utilizes the outdoor classroom, cutting-edge teaching techniques, and hands-on experiences to encourage scientific inquiry and discovery and to instill life-long ideals which promote a student's scientific curiosity and knowledge.

Science Requirements

Students must complete three credits of science for graduation, including courses in Biology and Chemistry. Students may choose from elective courses to complete their three credits.

Biology/Honors Biology (offered yearly)

Course number: 840/841

Credit: 1 credit

Grade level: 9 or 10

Required

This course is designed to provide a strong background in the discipline of biology with a focus on the core themes of cells, genetics, evolution, and ecology. Specific topics to be covered include: biochemistry, cell structure and function, respiration and photosynthesis, inheritance patterns, bacteria and viruses, populations, and the environment. The use of scientific methods, current research, and critical thinking skills are integrated throughout the year. Course coverage includes independent research, collaborative projects and presentations, case study discussions and innovative approaches to scientific topics. Biology and Honors Biology will be taught concurrently. Students seeking honors credit will be required to complete additional independent course work.

Human Anatomy & Physiology (offered next in 2018-19)

Course number: 853

Credit: 1 credit

Grade level: 11-12

Elective

Prerequisite: Biology

This yearlong course covers the names and functions of the body systems and their associated organs. The course will enable students to expand and explore their knowledge of the human body while applying that understanding to their own health and the issue of health in our society. This course is for students interested in a career in health related fields, as well as those curious about their own bodies work. This course will involve memorization of organs, body parts, and some basic medical terminology; it will also include the dissection of a fetal pig.

Environmental Science (offered next in 2019-20)

Course number: 850

Credit: 1 credit

Grade level: 11-12

Prerequisite: Biology

Elective

This course covers current events, trends, and controversies involving human interaction with the environment. Topics discussed will include ethical decision making based in all scientific backgrounds: geology, biology, ecology, chemistry, & environmental studies. There is a focus on class discussion and learning the steps to making your own informed decisions about the events around you.

AP Biology (offered next in 2019-20)

Course number: 874

Credit: 1 credit

Grade level: 11-12

Elective

Prerequisite: Honors Biology, summer coursework.

AP Biology is structured around four big ideas (Evolution, Energy Processes, Information, and Interactions) which encompass the core scientific principles, theories, and processes governing living organisms and biological systems. Students will experience science as a process with an emphasis on labs and application of core concepts. Students will become knowledgeable and responsible citizens in understanding biological issues that could potentially impact their lives. Upon completion of this course, all students are required to take the AP Biology Exam.

Chemistry (offered yearly)

Course number: 856

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Credit: 1 credit

Grade level: 10-11 Required (if not taking Hon Chem)

Prerequisite: Algebra I

This course is designed to provide strong background knowledge in the discipline of chemistry with an emphasis on the core themes of matter, energy, atomic theory, chemical reactions and bonding, solution stoichiometry, gas laws, and acid-base concepts. This course will focus on utilization of the laboratory for experimentation and investigation, developing critical thinking, analyzing and compiling data, and collaborative projects and presentations. Students can expect 30 minutes of homework per class period.

Honors Chemistry (offered yearly)

Course number: 872

Credit: 1 credit

Grade level: 10-11 Required (if not taking Chemistry)

Prerequisite: Algebra II (completed or concurrent), department recommendation, summer coursework.

This laboratory science course is designed to investigate a variety of topics, including the properties of matter, energy, atomic theory, chemical reaction types, chemical bonding, solution stoichiometry, thermochemistry, gas laws, acid-base concepts, and chemical equilibrium. Emphasis is on concept development and the utilization of the laboratory for experimentation, knowledge acquisition, and development of critical thinking skills. Students should have strong math skills including a working knowledge of dimensional analysis, graphing, and algebra. Due to the rigorous pace and depth of the material covered in this course, students are expected to be highly motivated and come to class prepared for discussion and laboratory. This course is designed to provide a strong introduction to chemistry and builds a foundation for advanced studies in chemistry.

AP Chemistry (offered next in 2018-19)

Course number: 882

Credit: 1 credit

Grade level: 11-12 Elective

Prerequisite: Honors Chemistry, department recommendation, and summer coursework.

Equivalent to one year of college chemistry, this course expands on concepts learned in honors chemistry with an in-depth study of topics such as atomic structure, chemical bonding, molecular geometry, states of matter, kinetics, equilibrium thermodynamics, electrochemistry, nuclear chemistry, and organic chemistry. Students will further apply the scientific method to chemical problems, analyze and interpret data logically and effectively, and physically manipulate laboratory equipment and apparatus in order to observe and record data. Students can expect 60 minutes of homework per class period.

Engineering Design (offered next in 2019-20)

Course number: 867

Credit: 1 credit

Grade level: 11-12 Elective

Engineering Design is a year-long course designed for juniors and seniors with an interest in designing solutions to needs and problems. Students learn about practices, concepts, and core ideas by working towards understanding and solving current and historical problems in engineering. Students develop need-based 'Innovation Projects' throughout the year

and present their projects to key stakeholders including students, mentors, and professionals. Students will learn skills in Computer Aided Design (CAD), rapid prototyping, and simulation while being introduced to manufacturing, civil, and mechanical engineering fields.

Physics (offered yearly)

Course number: 866

Credit: 1 credit

Grade level: 11-12 Elective

Prerequisites: Algebra II (completed or concurrent)

Physics is a natural science in which students learn about laws that govern motion, gravity, forces, energy, waves, sound, light, and electronics. Students learn physics through a combination of mathematical, graphical, and laboratory problem-solving techniques.

AP Physics C: Mechanics (offered yearly)

Course number: 883

Credit: 1 credit

Grade level: 11-12 Elective

Prerequisite: AP Calculus (completed or concurrent), department recommendation, and summer coursework.

AP Physics is a rigorous and fast-paced calculus-based physics course that is the equivalent of a college semester course in mechanics. Topics covered include kinematics, Newton's laws of motion, work, energy, power, linear momentum, circular motion, rotation, oscillations, and gravitation. This course is intended for students who are interested in science majors in college. Students must independently learn calculus over the summer, and successful completion of summer homework and assessment of calculus knowledge at the beginning of the course are required for continued enrollment. Students can expect about 45 to 60 minutes of homework per class period.

Independent Research (offered yearly)

Course number: 899

Credit: 0.25 per semester

Grade level: 11-12 Elective

Prerequisite: Teacher Recommendation/Approval

Students will investigate a scientific topic and report their findings using several media formats. The course is intended to expose the participant to all phases of independent research through an apprenticeship with a teacher-mentor. This is an advanced class meant to prepare students for future scientific training at an industrial or university level. A mutually agreed upon topic will be investigated throughout the course and is limited only by the resources available and the expertise of the teacher-mentor. Additionally, students will teach a topic related to their field to an appropriate audience (i.e., a class at Marshall). The course is open to students who have demonstrated an intense interest in a field of study.

SOCIAL STUDIES & RELIGIOUS AND ETHICAL STUDIES

The vision of the Social, Religious and Ethical Studies Department at Marshall rests in providing an understanding of the subject matter so students may see the interconnectedness of human existence and developing the skills to do so. The mission of the department is to provide students with authentic experiences that attempt to

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replicate how historians, geographers, ethicists, and scholars of religion work. To achieve this, students will learn to do the following:

- understand the present by studying its causal relationship to the past;
- discover how human beings relate to each other socially, spatially and chronologically;
- explore the impact of religion upon the pursuit of meaning;
- frame moral decisions by a sound understanding of moral theory; and
- use skills of analysis and synthesis to interpret primary and secondary sources.

SOCIAL STUDIES

Social Studies Requirements

3½ credits of Social Studies coursework must be completed before graduation.

American Government

Course number: 930

Credit: ½ credit

Grade level: 9 Required

This course provides students with an introduction to the workings of American government and politics. The main objective is to gain insight into the guiding principles of the U.S. Constitution and the system of government it created and has sustained for over two hundred years. Textbook reading will be supplemented with discussion, lecture, cooperative learning projects, PowerPoint presentations, and use of technology for research and analysis. Further topics of study may include brief examinations of current political events.

Modern Global History

Course Number: 935

Credit: 1 credit

Grade Level: 10 Required

This course focuses on non-Western regions of the globe emphasizing the relationships between the history, politics, geography, and cultures contained within each region. A 20th-21st century focus serves as the springboard for the historical understanding of each region's internal struggles and their position in the global community. Students discuss and research selected contemporary topics in each region and share their findings and views throughout the year. Videos, textbook reading, and question work are used to establish a historical survey foundation in order to create a base knowledge for a wider contextual discussion of the present-day situations of each region. In addition to the textbook, students are expected to keep up with each region's current events in the media and come ready to discuss their views in small and large group settings. The overall goal is for students to develop deeper understanding and appreciation for the connections between the present-day situations and their historical roots as they continue their education as true global citizens.

Honors World History

Course Number: 972

Credit: 1 credit

Grade Level: 10 Required (if not taking Modern Global History)

This course focuses heavily on non-Western regions of the globe, but does include some European history. The course moves at a fast pace, and student responsibility for learning is highly emphasized. Historical thinking and recurring themes in world history are emphasized. Students read primary and secondary source materials to develop historical thinking skills of analysis, synthesis, and evaluation, while learning world history content. In-class activities and videos add additional depth of understanding that goes beyond the textbook. With each unit of study, students conduct independent historical research in order to develop analytical reasoning concerning events in World History. The year will culminate with a research project that provides an authentic and creative experience in which students apply the skills developed during the year.

European History

Course number: 955

Credit: 1 credit

Grade level: 11-12 Required

From the classical foundations of civilization to the twentieth century, this course takes students through significant developments, events, and recurring themes in European history that impact the formation of modern Europe. Textbook reading is supplemented with excerpts from primary source material, lecture, documentary coverage, and research activities. Technology is actively used for historical research and student learning activities.

Honors European History

Course number: 954

Credit: 1 credit

Grade level: 11 Required (if not taking European History)

This course is a survey of European history from the late 1300s to the present. In this course students will be learning factual knowledge and develop the necessary analytical skills to think critically about history and produce writing for history. Textbook reading is supplemented with primary and secondary source material. The course moves at a fast pace, and student responsibility for learning is emphasized. Students will be required to create a History Day project, which will support authentic student learning of history skills, and participate in a school showcase. History Day is a national competition sponsored in Minnesota by the Minnesota Historical Society. Students research a topic centered on an assigned annual theme and create a research project that represents one of five categories: research paper, website, performance, exhibit, or documentary. For more information please see the National History Day MN website at: <http://education.mnhs.org/historyday/>

United States History

Course number: 979

Credit: 1 credit

Grade level: 11-12 Required

This course offers a survey of United States history starting in the sixteenth century. The course is fast paced and focuses on the turning points throughout U.S. History and is designed to provide students with factual knowledge and analytical skills in order to read and assess evidence and to draw their own interpretations and conclusions. Textbook reading is

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supplemented with primary and secondary source readings, and videos and films. In-class activities include simulations, role play, research, and group presentations.

Honors United States History

Course number: 978

Credit: 1 credit

Grade level: 12 **Required (if not taking U.S. History)**

This course offers an intense and comprehensive survey of American History since the sixteenth century. It is designed to provide students with factual knowledge and analytical skills in order to assess evidence, to read critically, and draw their own historical interpretations and conclusions. Students read both secondary and primary source material. The course moves at a fast pace, and student responsibility for learning is highly emphasized. Students are required to conduct historical research resulting in a History Day project that will be showcased at school and possibly entered in the annual National History Day competition. Students choose their research topic within a History Day theme. Their project may take the form of an exhibit board, a website, a documentary, a presentation or a paper. History Day provides an authentic and creative experience in which students apply the skills identified above. For more information on National History Day see: <http://education.mnhs.org/historyday>

RELIGIOUS AND ETHICAL STUDIES

Religious and Ethical Studies Requirements

One credit of Religious and Ethical Studies coursework is required.

World Religions

Course number: 742

Credit: ½ credit

Grade Level: 9 **Required**

This is a semester-long course in which students are introduced to the academic study of religion. Students generally take the course in the ninth grade. The purpose of this course is for students to gain the skills necessary to consider the subject of religion from a social scientific perspective. Students work to hone five skills: critical reading, critical writing, ethnography, scholarly internet research and critical visual media analysis. Through the process of learning these skills the students examine six major religious traditions: Indigenous Religions, Hinduism, Judaism, Buddhism, Christianity and Islam. Students who successfully complete this course develop the rudimentary elements of a scholarly perspective on the topic of religion to deepen their sense of being part of our global community.

Ethics

Course number: 743

Credit: ½ credit

Grade Level: 10-12 **Elective**

In this class, students explore ways to construct ethical responses to their ethical problems. This course explores what ethics are through immersion in the classic schools of ethical thought. Reading, writing, short research exercises, live issue discussions, media interpretation, Internet research, and a culminating research project are used to guide the student's mastery of the topics.

Politics and Spirituality

Course Number: 744

Credit: ½ credit

Grade level: 10-12 **Elective**

In this course, students will examine the spiritual resources human beings can draw upon to approach politics in a fruitful and meaningful way. An appropriate sub-title of the course would be, "Tending the Political Heart: Values Which Inform a Politics of Depth". The point will not be to direct students to take particular political stands or to support particular candidates. Rather, students will focus on two paths. First, they will learn to analyze and construct political arguments in ways that are mindful of their soundness and validity. Second, they will consider the role the following values may have in the political choice people make: compassion; freedom; love; community; respect; justice; integrity; discipline; curiosity; reconciliation; civility and mindfulness.

Critical Thinking and Current Events

Course number: 745

Credit: ½ credit

Grade level: 10-12

Prerequisite: Ethics **Elective**

This course teaches students to use the arts of sound argumentation and civil discourse to interpret contemporary events. Students will study how to construct and analyze arguments in order to test their soundness and validity. Students will learn to identify and avoid the major fallacies often used in the construction of arguments. Students will practice work to navigate discourse when there is conflict, when the emotions are strong and the stakes are high. These skills will be applied to the research and discussion of selected local, national, and international events that arise over the time of the semester. The prerequisite for this class is the course in ethics.

OTHER LEARNING OPPORTUNITIES

MORE Program

A program that is designed to promote teamwork, leadership skills, and the Marshall core values of compassion, integrity, intellectual curiosity, and self-discipline, the purpose of the MORE program is to improve student interest in the environment of Northern Minnesota and provide a link from classroom experiences to the global world. The program emphasizes experiences that are educational, instructional, and helpful to the total development of the Marshall student.

Advisory

The Marshall Advisory program aims to promote a sense of connectedness and belonging among students and teachers. Advising is one way we strive to remain true to our mission. Students meet with a faculty advisor on Tuesdays and Thursdays to explore topics important in the life of adolescents, make connections to the mission, and achieve the qualities outlined in the Portrait of a Hilltopper. The faculty advisor serves as a mentor, guide, and advocate for their advisees, providing an effective and friendly way to address problems with student schedules, questions about graduation requirements, and transitions for new students. In addition to academic support, advisors lead students in conversations about character development and actualization.

**Marshall School
2018-2019 Course Descriptions**

Post-Secondary Educational Options (PSEO)

Marshall School reserves the right to approve courses for academic credit. Students who are interested in pursuing PSEO opportunities should begin conversations with the Director of College Counseling. Local PSEO programs often have deadlines for PSEO enrollment in early April and early December. Discussions well in advance of these dates are encouraged.

Virtual High School

The mission of Virtual High School is to develop and deliver standards-based, student-centered online courses to expand students' educational opportunities and 21st century skills.

VHS believes that student-centered online courses can be designed and delivered to students to promote a high quality collaborative learning environment in which student exchange and interaction is a valued component of the instructional process.

VHS offers over 200 full semester courses in Arts, Business, English, Language Arts, World Language, Life Skills, Mathematics, Science, Social Studies, and Technology. In addition, VHS offers full year Advanced Placement (AP) courses.

For more information, please visit www.govhs.org. Students interested in registering for a VHS course should see the Associate Head of School.

Guidelines for VHS Enrollment

- Eligible students must have a 3.00 or higher cumulative grade point average.
- In almost all cases, VHS courses will be included in your 7 credits per semester course load. This means VHS courses should not be viewed as an 8th course in your class schedule.
- In almost all cases, VHS courses will not replace a required course for graduation.
- You will be required to get a teacher's endorsement in the form of a signature from a teacher in the same discipline as the VHS course (i.e., if you're interested in taking a creative writing course, you'll need an English teacher to sign the endorsement form).
- You will also need approval (in the form of a signature) from your parent and the Director of College Counseling, Upper School Principal, or the Associate Head of School.
- In almost all cases, you will be allowed to take no more than one VHS course per semester.

Virtual High School Course Offerings

Virtual High School offers a catalog of semester and full year courses in the Arts, World Language, Language Arts, Life Skills, Math, Science, Social Studies, Technology and AP Study to students in VHS member schools. The courses listed are current at the time of publication. Visit the VHS website at www.goVHS.org for the most current offerings.