



WISDOM ▪ HONOR ▪ SERVICE

**2017 - 2018
MIDDLE SCHOOL
COURSE DESCRIPTIONS**

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HUMANITIES

5TH GRADE HUMANITIES

PEOPLE & PLACE: HOW PEOPLE IMPACT THE ENVIRONMENT AND VICE VERSA

The Fifth Grade Humanities course is developed around stories and events beginning with tracing the earliest inhabitants and explorers to this continent. Students will then continue to track these events through periods of turmoil, rebellion, and war, up through the Civil War. Through examining historical accounts, reading relevant literature, and experiencing simulations, students will discover the impact that the geography of the land has on the people and the impact the people have on the land. The students will also be aware of the dedicated efforts of the many diverse cultures of Americans, and the vision our forefathers conceived of “a government of the people, by the people, and for the people.”

Supporting these themes, both past and present, students will work to develop extensive skills in vocabulary, reading comprehension with both fiction and nonfiction works, the writing process, grammar, critical thinking, communicating, collaborating, and creating. Students will be encouraged to generate their own influential voice through various mediums, pose relevant questions that stimulate their curiosity and their desire to learn, and to practice the Parish tenets of *Wisdom, Honor, and Service* in their role as Americans and as citizens of the world community.

6TH GRADE HUMANITIES

COLLABORATION & COMPETITION: HOW PEOPLE IMPACT OTHER PEOPLE AND CIVILIZATIONS

Through the study of historical and literary texts, Sixth Grade Humanities students will learn the basic foundations and necessities of all civilizations. By analyzing the geography and culture of ancient peoples, students will examine how early humans established the world’s first empires, from the Fertile Crescent to ancient Greece and Rome. To support the historical content being studied, students will also read various novels that support the themes of survival and collaboration. Students will not only appreciate the diversity and richness of civilizations studied, but also understand the universal needs that connect us all.

While reading, students will develop critical thinking skills as they are asked to distinguish between main idea and supporting detail. They will learn how to ask and answer different levels of questions and to support their ideas with historical and textual evidence. Students will practice the steps of the writing process as they explore different types of writing (narrative, expository, research writing, etc.) throughout the year. The literary and historical content of the class will drive each writing assignment. Students will have multiple opportunities to demonstrate their understanding of the material through written and verbal language, as well as through hands-on projects and cooperative learning.

7TH GRADE HUMANITIES

INNOVATION & SUSTAINABILITY

In Seventh Grade Humanities, students will learn to make connections between and inferences about the influence of cultures on their world and our own. They will look closely at the how geography, in all its richness and social complexities, shapes identity, both of the individual and the group. Throughout the process of discovery, students will look deeply at how we come to know what we know, and why it is important to look at everything from multiple points of view.

Our historical journey will take us from the Middle Ages through the Age of Enlightenment, from Western Europe to the Americas, Africa, and Eastern Asia. At each stop, students will come to appreciate both how interconnected and yet richly diverse our world is. They will learn to think like historians, to understand the many lessons of history. More importantly, they will learn how to apply that understanding to the questions of the present.

Throughout the year, students will learn to read and think critically about a variety of genres, including novels, short stories, plays, and various works of nonfiction. From this study, they will learn to analyze literary works and, ultimately, to create one of their own. Writing will be a constant focus in seventh grade Humanities, and to assist students' developing understanding of the writing process, students will work independently through a personalized approach to the study of grammar and vocabulary.

8TH GRADE HUMANITIES

IDEAS & IDENTITY: EXPLORING THE IMPACT OF IDEAS ON PEOPLE AND SOCIETY

In Eighth Grade Humanities, students will understand and appreciate the richness and complexity of American cultures and histories by exploring connections between people, places, and events utilizing the themes of Exclusion, Liberty, and Coming of Age. Students are expected to synthesize connections while using evidence in support of their theses and commentary in their writing. Through history, literature, current events, and multicultural studies, 8th grade Humanities also focuses on the construction of identity, so paramount in the lives of adolescents.

The social studies topics investigate the reconstruction of America following the Civil War and its evolution as a nation into the present day. The curriculum has a particular emphasis on the Constitution and branches of government. Signature projects in the 8th grade include Model Senate, Mock Trial, Biographical Journal, and a research paper with original thesis.

The study of literature focuses on a number of genres: novel, short story, autobiography, drama, and poetry. In addition, students are asked to read independently. On multi-paragraph essays, attention is given to the writing process, involving prewriting, peer response, and revision. Eighth graders continue the formal study of grammar, usage, and mechanics. Other writing assignments include journals, fictional pieces, and a poetry portfolio.

MATHEMATICS

5TH GRADE MATH/HONORS

The fifth grade math course is designed to strengthen students' computational skills while emphasizing reasoning, problem solving, critical thinking and communication skills. Students build an understanding of number sense, measurement, geometry, and data analysis through a variety of manipulatives, models, and algorithms. They will apply their skills to problem-solving situations and use estimation to check for reasonableness. Throughout fifth grade math, students will progress through a personalized learning path tailored to their individual need. Within the course, there is the opportunity of advanced recognition with an honors designation for any student showing mastery of the required criteria and completing designated enrichment activities.

6TH GRADE MATH/HONORS

The sixth grade math curriculum emphasizes reasoning, problem-solving strategies, communication, and number theory. This course also continues to develop understanding of number relationships and begins to incorporate algebraic concepts. Students will make real world connections while exploring the use of integers, exponents, rational numbers (fraction and decimal operations), proportional relationships, measurement, percentages, data analysis, probability, and minimal geometry including measuring and classifying two dimensional and 3 dimensional shapes. Throughout sixth grade math, students will progress through a personalized learning path tailored to their individual need. Within the course, there is the opportunity of advanced recognition with an honors designation for any student showing mastery of the required criteria and completing designated enrichment activities.

7TH GRADE PRE-ALGEBRA/HONORS

The Pre-Algebra curriculum emphasizes reasoning, problem solving, communication skills, number relationships, number theory, patterns, functions and algebraic concepts. Students begin their year studying variables, expressions and integers. They then solve multi-step linear equations and inequalities. Students work with all sets of numbers, including fractions, decimals, integers, exponents, rational and irrational numbers. Additionally, students study ratio, proportion, percent and probability. Geometry topics include area and perimeter of squares, triangles and rectangles. Students also solve a variety of word problems using algebraic methods. Throughout the year, students become proficient with conversions, between customary units and metric units as well as within the same unit.

8TH GRADE – INTRODUCTION TO ALGEBRA I

The Intro to Algebra I class begins with a review of the major topics that were covered in Pre-Algebra to ensure that students have a mastery of these topics prior to moving on to Algebra I. Review areas include integer and fraction operations, solving single and multi-step equations and inequalities, exponent rules, ratios and proportions, and percent applications. New topics include writing and graphing linear equations and functions, right triangles and the Pythagorean Theorem, area and perimeter of polygons, surface area and volume of solids and more advanced data analysis and probability.

8TH GRADE ALGEBRA I

Students entering this course should have some familiarity with the concept of a variable and expressions involving a variable. They should also be familiar with mathematical operations involving integers and using inverse operations in order to solve simple linear equations. Students will build upon these skills throughout the year as they study properties of exponents, polynomials and their factors, rational expressions and probability. Students will become familiar with properties of the graphs of linear and quadratic functions. Students will learn to solve linear, quadratic and rational equations both in a purely mathematical setting as well as in real-world contexts. Students will use a TI-Nspire CX graphing calculator.

PHYSICAL EDUCATION AND HEALTH

The physical education and health program at Parish Episcopal School is based on a belief that physical education is an integral and essential component of education. We believe that physical education is a powerful academic instrument that has the ability to not only build and develop lifelong appreciation of fitness but also help strengthen students' social skills, self-esteem, confidence and behavioral conduct. The goal of our program is for each student to understand and embrace the benefits of a lifetime of participation in physical activity and fitness.

The middle school physical education program at Parish Episcopal begins in the fifth grade and continues through eighth grade. During these years, the students participate in a wide range of activities, including various games and sports group discussions regarding attributes such as teamwork, sportsmanship and enthusiasm and classroom-based lectures associated with health, fitness, nutrition and life skills. These experiences will allow all students the opportunity to experience success and feel better about themselves physically, mentally and socially. The objective of the Parish Episcopal Physical Education program is to provide the knowledge and tools needed to help students make healthy decisions and encourage students to strive towards lifelong fitness. The program strives at all times to adhere to the National Standards for Physical Education. We aim to enhance our children's physical fitness and well-being, teach them a wide variety of motor skills, implement the true meaning of teamwork, instill a desire to participate in lifelong physical activity and have fun.

A fitness-based warm-up, including flexibility, muscular strength and cardiovascular endurance begins each lesson at every grade level. Developmentally appropriate skill-building games and activities make up the core of each class. The importance of sportsmanship, fair play and cooperation is consistently reinforced at all levels.

5TH -6TH GRADE

Fifth and sixth graders participate in a wide range of activities to enhance the development of skills and knowledge necessary for the students to create lifelong habits of physical activity and wellness. Physical fitness, motor-skill development, teambuilding and implementing basic game

strategies are the primary focus and class objective. The fundamentals of various Parish sports are introduced, as well as a classroom based health curriculum where we introduce concepts associated with nutrition, exercise physiology, and developing lifelong habits of physical activity and wellness. A sampling of units taught includes teambuilding activities, physical fitness, volleyball, soccer, golf, basketball, field hockey, flag football, lacrosse, and softball and playground games. Each individual unit is five classes in length with five teachers per grade level.

7TH-8TH GRADE

Through a wide variety of lead-up drills and games, students work through a more advanced continuum of skill development. This level includes the development of specialized skills in relation to competitive sports and recreation activities. During these two years of middle school, each child will gain a better understanding of sport history, skills and strategies as well as a deeper appreciation of the benefits of lifetime activity. A sampling of units taught include teambuilding activities, physical fitness, volleyball, golf, soccer, basketball, field hockey, flag football, lacrosse, baseball, and softball. Our classroom based health curriculum covers more advanced topics such as anatomy, exercise physiology, nutrition and the benefits of exercise. Each individual unit is five classes in length with five teachers per grade level.

SCIENCE

5TH GRADE GENERAL SCIENCE

The fifth grade curriculum incorporates STEM into concepts while focusing on the three main units of science: Life, Physical, and Earth. An introduction to Science at the beginning of the year provides a strong footing for students as they actively explore human body systems, chemistry, and astronomy. Science skills including research, observation, measurement, analysis, and communication are reinforced. Students also gain experience in working in cooperative lab groups. Lab practicals as a means of assessment will be introduced. Students will share their knowledge through presentations, written assessments, traditional labs, projects, and class assignments. How the natural world works and is connected is an overriding theme in fifth grade.

6TH GRADE EARTH AND ENVIRONMENTAL SCIENCE

This course will help students discover how the various earth systems influence each other by examining the geologic and atmospheric processes that occur on the planet. In addition, students will delve into environmental science. Students will continue to develop basic science skills in the areas of measurement, in making observations, in writing hypothesis, data collecting, graphing, and inference making. Cooperative lab group work and STEM projects will be a part of the laboratory experience.

7TH GRADE LIFE SCIENCE

This course explores the basics of cellular biology, botany, and genetics. Skills emphasized this year are: how to do inquiry labs, graphing, data analysis and conclusion writing. A specific

emphasis will be placed on data collection and displaying results in both graph and table form along with the analysis of the data. Students will be able to utilize and reinforce concepts introduced in Catalina Island throughout the year while having an opportunity to work alongside the Parish Gardening Club. Cooperative lab group work along with STEM projects are part of the laboratory experience. Lab practicals will continue to be a part of the assessment process.

8TH GRADE PHYSICAL AND ENVIRONMENTAL SCIENCE

This course explores the skills of a physical science laboratory, emphasizing the use of math, measurement, and graphing. The skills of researching, reading science papers and writing persuasive essays using the Parish Inquires model will be an integral part of many units.

Chemistry topics will include structure of the atom, the organization of the periodic table, compounds, thermal, atomic, and chemical energy. Physics topics will concentrate on forces and motion. Students will complete inquiry based labs, cooperative lab group and individual research-based projects, along with several STEM projects.

TECHNOLOGY

5TH GRADE TECHNOLOGY “BOOT CAMP” (REQUIRED)

Students will continue to develop keyboarding, basic formatting, and general productivity skills during their first trimester of Middle School. Acquisition of additional technology skills throughout their Middle School years will be greatly expedited as a result.

6TH GRADE COMPUTER: PARISH, INC. (REQUIRED)

Students will work in teams to create a company that produces a product of their own creation and prototypes of their product design. They will also create a company mission statement, logo, marketing plan, ad campaign, and website, all leading up to a presentation targeting potential investors.

7-8TH GRADE DIGITAL MEDIA

Students will learn the basics of digital photography and video as well as editing of both. Skills include determining appropriate settings and effective use of digital cameras, downloading images from camera to computer, and various editing techniques using Adobe Photoshop Elements. Students learn to crop, rotate, resize, and recolor images as well as to create and manipulate layers, use selection tools, and apply filters to enhance images. After planning (via storyboards) and shooting videos, students will learn basic video editing techniques.

7-8th Grade PantherTech

Panther Tech is a survey course exploring computer science. Panther Tech will focus on human-computer interaction, including computer hardware, Internet resources, and usage techniques. The course will also examine computer use cases in various fields, what goes on behind the scenes in applications, and problem solving using algorithms. Basic computer programming will be introduced, and students will create simple programs.

7-8th Grade ParishExplore

This course will provide students the opportunity to conduct an in-depth exploration of any topic about which they are passionate. After their topics have been identified, the instructor will assist the students in developing their own course of study including research, contacting and interacting with experts and/or others interested in the field, creating web pages, wikis, blogs, message boards, tweets, etc. Students will learn to use a variety of modalities with the chosen topic as a foundation. The course will culminate in a final public presentation for parents, invited faculty, and guests. There are no prerequisite courses, but priority will be given to 8th graders.

WORLD LANGUAGES

LATIN

LATIN A

Latin A covers one half of the material required to complete Latin I. It focuses on developing basic grammar skills, interpreting English derivatives through Latin vocabulary, introducing Roman historical events and legends, and exploring how Latin and Roman culture relate to our everyday lives. Students learn parts of speech, noun cases and declensions, and verb tenses and conjugations. As a guide for culture and vocabulary studies, the class follows the daily life and adventures of a Roman family in the year 80 A.D. All students take the National Latin Exam.

LATIN B

Latin B is the continuation of Latin A and completes the Latin I course. It resumes reviewing and developing basic grammar skills, interpreting English derivatives through Latin vocabulary, introducing Roman historical events and legends, and exploring how Latin and Roman culture relate to our everyday lives. Students will begin to read, translate, and interpret more complex Latin passages in preparation for Latin II. As a guide for culture and vocabulary studies, the class follows the daily life and adventures of a Roman family in the year 80 A.D. All students take the National Latin Exam.

Pre-requisite: Latin 1A

SPANISH

SPANISH A

Spanish A is a beginning-level Spanish class. The course provides students with the opportunity to attain new levels of meaningful communication, both orally and in writing, while growing in awareness of the richness of the cultures of the Spanish speaking world. Students learn new vocabulary and grammatical structures in context through a variety of activities, as well as learn to employ previously studied language components with greater understanding. Oral communication skills are developed through daily conversational practice, listening activities, pronunciation drills and multiple opportunities to practice interpersonal communication in authentic situations. Greater emphasis is placed on the building of reading and writing skills than in earlier years of study.

SPANISH B

Spanish B takes off in *Realidades B* where Spanish A leaves off. Students will continue to expand their vocabulary and basic verb conjugations including verbs like "to be" and "to like." Students will learn how to carry on a dialogue with others and write about themselves and their surroundings. More time will be spent writing and speaking together in Spanish as students expand their vocabulary and knowledge of the language. The curriculum will also focus on Spanish and Latino holidays and celebrations, as well as cultural practices and comparisons. Additional topics may be included if time permits.

SPANISH C

This course continues development of the four components of foreign language acquisition (listening, speaking, reading and writing) that students have been developing in previous grades and corresponds to the first half of Spanish II. Students will be studying the culture of the Spanish-speaking world while also continuing vocabulary development, grammar units (including past tense) and verbal skills as associated with the *Realidades II* textbook, published by Prentice Hall.

SPANISH D

In this course, students study the second part of Spanish II started in Spanish C, continuing the development of the four components of foreign language acquisition: listening, speaking, reading and writing, with the main focus on communication. Students will be studying Spanish-speaking countries and their cultures, geographies and histories. Students will also continue vocabulary development, grammar units and verbal skills as associated with our textbook, *Realidades II*, published by Prentice Hall. This will be accomplished by class assignments and projects that will focus on communication skills with Spanish-speaking students in other countries.

VISUAL AND PERFORMING ARTS

5TH GRADE ART

Students will use the 'rules and tools' of art in making 2-D projects and learn to draw as well as work with a variety of materials including prismas pencils, graphite and paper. All work is exhibited in the students' area and the best is shown in the gallery at the end of each trimester.

5TH GRADE BEGINNING BAND

Band is a year-long, 40 minute class that meets every other day. Musicians learn how to perform melodies, harmonies, and bass lines and follow chord changes with an emphasis on playing by ear. Students learn how to improvise and write their own music. Musicians participate in solo, ensemble and large group festivals and concerts.

5TH GRADE CHOIR

MS Choir is a year-long, 40 minute class that meets every other day and is open to all students in 5th grade. No audition is required; however, there will be a placement audition to determine

which voice part is best for each student. Students are graded on their participation and commitment to the class. Students will engage in activities to further their melodic and rhythmic reading skills. Performance opportunities include Chapel, concerts in the Spring and Fall, Lessons and Carols, Global Blast, and other school-related events.

5TH GRADE DANCE

This course introduces the fundamentals of movement and performance quality. This is structured to stimulate the body for effective action by developing general coordination. The scope of the students' movement is enlarged by learning preparatory techniques and methods. Students begin to learn self-awareness through application of critiques and reflections. This course also explores creative movement and problem-solving skills.

5TH GRADE MUSIC

Students in 5th grade music study the basics of rhythm, note reading, and note/rest recognition. Rhythmic and melodic reading are taught and used to facilitate the musical experience. Class activities include singing, listening, playing instruments, movement, and music games.

5TH GRADE THEATRE

In their first year of theatre studies, 5th grade students are introduced to the basic elements of stage performance. They will learn the basic skills of movement through two extensive units: one in pantomime and the other in character and story creation. Feeling the confidence to stand up and perform in public is an important component of this course as the students learn to expand their individual "comfort zones."

6TH GRADE ART

Students continue mastering various media and solving visual problems in inventive ways. Students begin to think abstractly when creating projects with an emphasis on process, one that teaches flexibility and adaptability while being open to possible solutions. All work is exhibited in the students' area and the best is shown in the gallery at the end of each trimester.

6th GRADE BAND

Band is a year-long, 40 minute class that meets every other day. Musicians learn how to perform melodies, harmonies, and bass lines and follow chord changes with an emphasis on playing by ear. Students learn how to improvise and write their own music. Musicians participate in solo, ensemble and large group festivals and concerts. **Students who do not have experience will be required to hire a tutor if they would like to participate.**

6TH GRADE CHOIR

Choir is a year-long, 40 minute class that meets every other day which is open to all students in 6th grade. No audition is required; however, there will be a placement audition to determine which voice part is best for each student. Students are graded on their participation and commitment to the class. Students will engage in activities to further their melodic and rhythmic reading skills. Performance opportunities include Chapel, concerts in the Spring and Fall, Lessons and Carols, Global Blast and other school-related events.

6TH GRADE DANCE

This course continues to build on previous work by adding more advanced movement. This course serves as an introduction to beginning technique. It will introduce proper placement within ballet, modern, and jazz techniques, while developing an awareness of space and rhythm. Students continue to learn self-awareness through application of critiques and reflections. Students are involved in the creative process and begin to differentiate movement choices.

6TH GRADE MUSIC

Students in 6th grade music further their study of concepts presented in 5th grade music. Classes begin with a review and move into more advanced rhythmic and melodic reading. Class activities include singing, listening, playing instruments, movement, and music games.

6TH GRADE THEATRE

In their second year of theatre studies, students are introduced to higher levels of stage performance, including movement, character development, and story creation. Feeling the confidence to stand up and perform in public is an important component of this course, as the students learn to expand their individual “comfort zones.”

7-8TH VISUAL ART

Students continue on the road to mastery of various media while being encouraged to solve visual problems in inventive ways and think abstractly when creating projects with an emphasis on process. This course combines self-expression important to the older middle school child while stressing a high level of technical skill. Final work is either exhibited in the school hallways or the gallery at the end of each trimester. Class may be taken multiple times.

7-8TH GRADE BAND

This is a year-long class that meets every other day opposite PE in place of study hall. Pre-requisite is 6th grade band or approval of the director. Musicians learn how to perform melodies, harmonies, and bass lines and follow chord changes with an emphasis on playing by ear. Students learn how to improvise and write their own music. Musicians participate in solo, ensemble, and large group festivals, as well as All-Region Honor Band and concerts. Students who do not have experience will be required to hire a tutor if they would like to participate. Note: Band lasts until 3:50pm, 15 minutes after the official conclusion of the school day.

7-8TH GRADE CERAMICS

Students learn a concrete way to develop their creativity as they choose functional vessels, decorative pieces, and sculptural work. Course work includes an online portfolio, project ideation (drawing and planning), project assembly, glazing, vocabulary quizzes, self-evaluations, and group critiques. Class may be taken multiple times.

7-8TH GRADE CHOIR

MS Choir is open to all students in 7th and 8th grade. No audition is required; however, there will be a placement audition to determine which voice part is best for each student. Students

are graded on their participation and commitment to the class. Students will engage in activities to further their melodic and rhythmic reading skills. Performance opportunities include Chapel, concerts in the Spring and Fall, Lessons and Carols, Global Blast and other school-related events. Note: Choir lasts until 3:50pm, 15 minutes after the official conclusion of the school day.

7-8TH GRADE DANCE

This course will introduce various dance styles which will include jazz, lyrical/ballet, contemporary/modern dance, and social dance. Content includes technique, fundamentals of movement, musicality, composition, written assignments, and performance opportunity. Each unit of curriculum includes objectives that are interrelated and ongoing. Class may be taken multiple times.

7-8TH GRADE DIGITAL MUSIC

Students in the Digital Music class will learn to use various programs and software that help them understand and learn more about effective use of music for educational presentations and personal expression. Applications for musical notation and creation will be utilized. Projects may include new compositions, underscoring, and editing previous existing material.

7-8TH GRADE MUSICAL THEATRE

Students will learn proper acting, singing, and dancing techniques for musical theatre productions. Students will study a brief history of American Musical Theatre and will learn song and dance routines from Broadway musicals while improving their own performance skills. The class culminates with a public performance of various musical theatre numbers. An emphasis is also placed on helping students with the audition process, as students leave this class with individualized, appropriate audition material and an understanding of audition expectations. This is a performance-based class with mandatory participation in the final performance.

7-8TH GRADE PARISH JR DANCE COMPANY

A yearlong course for students who have had extensive dance experience and are ready for more advanced training. Parish Junior Dance Company will include an expanded study of modern dance including ballet, jazz, and choreography with focus on techniques and terminology. **There is a mandatory audition in the spring of the prior year in order to be in this course. Note: Parish Junior Dance Company lasts until 3:50pm, 15 minutes after the official conclusion of the school day.**

7-8TH GRADE THEATRE

Students will explore different texts in preparation for an in depth performance scene study. Students will learn the structure of theatre through writing and performing their own works as well as scenes and monologues from contemporary theatre. Technical theatre elements are explored through a design project with a strong focus on developing a character and movement incorporated through performance. This class may be taken multiple times. As a student progresses through their theatrical journey, individual assignments are given to strengthen their performance skills.

ADDITIONAL REQUIRED CO-CURRICULAR COURSES

6TH GRADE ETHICS (REQUIRED FOR ONE TRIMESTER)

This course serves as an introductory exploration of personal ethics and community responsibility. The class explores six aspects of character (trustworthiness, respect, responsibility, fairness, caring, and citizenship) through a variety of hands-on projects. The ultimate goal of this course is for students to understand the importance of these values for themselves and as members of a community and to be better equipped to handle ethical dilemmas when they arise.

7TH GRADE DEVELOPMENTAL HEALTH (REQUIRED FOR ONE TRIMESTER)

Students will (1) learn in-depth information regarding the impacts of alcohol and other drugs use and abuse (2) further explore themes of Internet safety, social networking, and on-line etiquette taught in previous technology classes and (3) study the habits outlined in The Highly Effective Teen.

7TH GRADE PUBLIC SPEAKING (REQUIRED FOR ONE TRIMESTER)

7th Grade students are introduced to the basic elements of effective public speaking. They will write and present different types of speeches including persuasive and informative. Students develop the basic presentation skills of eye contact, word placement, and correct breathing while speaking. The class culminates with a final evening presentation for family and classmates.

8TH GRADE BUILDING A CULTURE OF SERVICE (REQUIRED FOR ONE TRIMESTER)

This Service Learning course focuses on leadership through service and prepares students for their service requirements in Upper School. Students will learn what classifies a business as non-profit, how an individual can get involved, and how to involve others effectively. The class will create service devices, research and present on a non-profit agency, and experience a hands-on approach by participating in various projects of service. The ParishLeads tenets of “aligning your words with actions” and “acting with empathy and compassion” are focal points of the class.

8TH GRADE INTRODUCTION TO WORLD RELIGIONS (REQUIRED FOR ONE TRIMESTER)

This course is an introductory exploration of the beliefs and practices of various religions around the world, including Hinduism, Buddhism, Christianity, Islam, and Judaism. Included are the basic ethical teachings that each religion shares. The goal of this course is for students to gain a global perspective on religious practice and belief by expanding their knowledge of the history, core teachings, and practices of these religions.

STEM Courses

5th Grade Introduction to STEM: Design & Modeling

This hands-on course introduces students to the importance of an engineering portfolio to document and capture their ideas. They are introduced to the use of the design process to solve problems and understand the influence that creative and innovative design has on our

lives. Students learn basic engineering drawing techniques. 3D modeling software is used to create a virtual image of their designs and produce a portfolio to showcase their creative solutions.

5th Grade R2U2 Robotics

Curious about how robots fit into our global societies? In this course, students explore how robots solve problems, such as exploring a volcano from the inside or performing surgery. They consider ethical and current issues in robotics across the globe. A team project includes building and programming a robot to solve an everyday problem. *This course is recommended for students who have no previous experience with LEGO robotics equipment.*

5-6th grade First LEGO League Robotics

Students learn to collaborate with their peers to design, build, and program an autonomous LEGO MINDSTORMS EV3 robot. Each year the FIRST LEGO League program selects a particular theme which impacts both the robot game (tasks robot must complete) and the required research project. Student groups investigate a problem related to the competition topic and propose their own innovative solution. *It is recommended that students have previous experience with LEGO MINDSTORMS NXT/EV3 equipment. There is a required after school lab session on Wednesdays from 3:45 – 5:00 PM with this course through December. All day participation at December competition is expected. Competition date pending, estimate Saturday, Dec. 2 or 9, 2017.*

6th Grade Civil Engineering

Civil Engineering is a broad-based, hands-on course to help students understand the influence that creative and innovative design has on our lives. Using project/problem based learning, students investigate the forces, materials, and shapes necessary for building structures. As a team, they apply the engineering design process to designing, building, and testing a model bridge.

6th Grade Reverse Engineering

Reverse Engineering is a course that helps students document and analyze a product's design. The process investigates a product's visual, structural, and functional elements. Students consider how and why a product was designed and built. Then, the product is disassembled and investigated completely using tools and technical drawings. Finally, students can reimagine or improve a product's initial design.

7-8th Grade FIRST LEGO League Robotics

Students collaborate with a small group of their peers to design, build, and program an autonomous LEGO MINDSTORMS EV3 robot. The FIRST LEGO League program selects an annual theme which impacts the tasks robots must complete and requires a research project. Student groups investigate a problem related to the competition topic and propose their own innovative solution to the problem. *All day participation at December competition is expected. Competition date pending, estimate Saturday, Dec. 2 or 9, 2017.*

7-8th Grade Green Architecture

Today's students have grown up in an age of "green" choices. In this class, students learn how to apply this concept to the fields of architecture and construction by exploring dimensioning, measuring, and architectural sustainability as they design affordable housing units using Autodesk's® 3D architectural design software. Students work in teams to design, model, and test more efficient choices in buildings and structures.

7-8th MAKE

MAKE is a hands-on project based class in which students gain confidence to design and create with a number of the basic tools of a maker space shop such as the band saw, drill press, table saw, hand drills in addition to learning how to create with technology driven tools such as a CNC router and laser cutter. Students explore the fundamentals of design and computer aided drafting. These skills are combined with the knowledge of the basic shop tools to allow students the freedom to design and craft their personalized end of course projects. Custom class projects might include wooden candleholders, jigsaw puzzles, acrylic LED signs, pallet signs, desktop lamps, cutting boards, game boards, or jewelry.