Welcome to the Hill-Murray community! The middle school years are some of the most important years in a child’s life, and at Hill-Murray, we understand this and are excited to embark with you on these formative years.

Hill-Murray’s Middle School invites you to embrace these years as a time of growth, exploration, transformation, service and joy. Our culture is rooted in the Pioneer Way, characterized by empathy—the capacity to understand others’ perspectives—and a commitment to doing what is right, even in challenging circumstances. Our students actively nurture this mindset throughout their time at Hill-Murray. Middle schoolers learn to support each other during a time of significant change, and our faculty serve as coaches and mentors to support them to resist the pressures to conform and develop a sense of purpose as they explore who they are becoming.

As a PIONEER, you will be asked to try new things. You will be engaged in shaping and advancing your own journey on our beautiful campus! Each day, you will immerse yourself in exciting pathways and challenges that only Hill-Murray can provide you.

The middle school years are full of transformation. At Hill-Murray these years are grounded by a strong sense of faith, community and belonging. Surrounded by teachers who care deeply for you, you will be understood and supported—intellectually, socially, and emotionally. As a PIONEER, middle school is all about exploration, pushing your limits, and having fun! At Hill-Murray, we encourage you to explore new things, whether it be in the classroom, on the athletic field, through a new artistic endeavor, or any of the co-curricular opportunities available.

You will see that our Catholic faith guides everything we do, creating an environment where students are valued and feel a sense of belonging and welcome. As you take on more responsibility as a middle school student, you are given freedom to become more independent as you prepare for your high school years. Along this journey, you will be supported and challenged by teachers who care about you, your background, and experiences. You will be equipped with excellent academic skills, plus the compassion, drive, faith and integrity to make the world around you better as you prepare to enter the high school years.

Melissa Dan, Ed.S.
President
Hill-Murray is an independent, Catholic, co-educational, college, and life-preparatory school serving students in grades 6–12. Rooted in our Benedictine and Lasallian traditions, we embrace the journey of each student and are committed to the growth and well-being of each member of our community.

**MISSION**

Hill-Murray empowers students to reach their fullest potential by inspiring them to utilize their God-given strengths to become leaders who will make a positive difference in the world.

**VISION**

Hill-Murray will become the preeminent school that partners with families to develop transformational leaders grounded in the teachings of Christ.

**IDENTITY**

Fulfill Your Promise. Serve Others. Transform the World.

We're an educational leader in the Twin Cities — an independent, Catholic, forward-looking school rooted in strong values. We provide academic, physical, social, emotional and spiritual support to every student. We focus on personalized learning that empowers students to embrace their journey and make a positive difference in the world. Our staff is dedicated to addressing the strengths and challenges of each student and creating a space where compassion, service and excellence are the priorities.
This Middle School Curriculum Guide is designed to aid you in planning your course selections at Hill-Murray. This guide is a catalog of all the courses to be offered for the 2024-2025 school year.

Listed by grade, you will find a brief description of each course including the semester(s), prerequisites, and other pertinent information you might need. If during the process you and your student aren’t seeing a course you are interested in, please reach out to your guidance counselor (following page.)

A Curriculum Designed to Awaken Curiosity.

The Hill-Murray curriculum will engage your mind, express your creativity, and expand your knowledge of God and the world around you by exploring the rich history of human thought and endeavor.

HILL-MURRAY ACADEMICS Our academic curriculum is designed to reward your passion and develop your capacity for critical thinking and creative problem-solving to pave the way for a lifetime of learning and leadership.

MIDDLE SCHOOL H-M’s Middle School addresses the distinctive needs of students in Grades 6 through 8. We appreciate and understand their joys, challenges, and developmental changes. We also recognize their vulnerability and learning differences in this remarkable transitional period. Our program provides the support and guidance that allow students to develop independent thinking, intellectual integrity, and physical, personal, and social maturity.

HILL-MURRAY SCHOOL GRADING SYSTEM

<table>
<thead>
<tr>
<th>College Prep</th>
<th>Honor/AP/CIS/PACC</th>
</tr>
</thead>
<tbody>
<tr>
<td>A = 4.00</td>
<td>A = 4.50</td>
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<tr>
<td>A– = 3.67</td>
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<td>B+ = 3.33</td>
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<td>C = 3.00</td>
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<td>D+ = 1.33</td>
<td>D+ = 1.83</td>
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<td>D = 1.00</td>
<td>D = 1.50</td>
</tr>
<tr>
<td>D– = 0.67</td>
<td>D– = 1.17</td>
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</tbody>
</table>

HM PIONEER SUMMER 2024

Pioneer Summer offers a variety of experiences in three main categories:

• Academic: Credit and enrichment classroom experiences - contact your assigned counselor for recommendations.
• Arts & Activities: Fine arts and experiential learning
• Athletics: Sport development camps

These summer classes are designed to help you explore, try something new, meet friends, and have FUN! Information coming soon for Pioneer Summer 2024.
MIDDLE SCHOOL COURSE REGISTRATION
Middle school students take required courses in English, Math, Physical Education, Theology, Science and Social Studies. In addition to required courses, students will take two to five electives each year, and a required Pioneer Pathway course.

Math placement for incoming students is determined by the Math Department. The decision is based on placement exam scores, previous teacher recommendations, prior coursework, grades and other factors. Math placement for returning students is determined by that student’s current year’s progress and current teacher’s recommendations.

COURSE REGISTRATION POLICY
In the event that a course is not offered due to insufficient enrollment, or enrollment exceeds course capacity, a student’s alternate choices listed on registration materials will be used to complete the schedule. Therefore, it is important that students list alternate choices they sincerely wish to take.

TECHNOLOGY ACADEMY CERTIFICATION PATHWAYS
Details on page 16

ENTREPRENURIAL ACADEMY CERTIFICATION PATHWAY
Details on page 17

MATH OFFERINGS
Hill-Murray School offers a comprehensive Math Course Offering, giving students the opportunity to gain experience with our math curriculum. Completing these courses will help set students apart from their peers in both college and the workforce at large.

<table>
<thead>
<tr>
<th>MIDDLE SCHOOL</th>
<th>HIGH SCHOOL</th>
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</thead>
<tbody>
<tr>
<td>Pre-Algebra</td>
<td>Pre-Algebra Concepts</td>
</tr>
<tr>
<td>Middle School Algebra</td>
<td></td>
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<tr>
<td>High School Algebra</td>
<td></td>
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<tr>
<td>Intermediate Algebra</td>
<td>Honors Intermediate Algebra</td>
</tr>
<tr>
<td>Geometry or Geometry Through Woodworking</td>
<td>Honors Geometry</td>
</tr>
<tr>
<td>Algebra II/Trig</td>
<td>Honors Algebra II/Trig</td>
</tr>
<tr>
<td>CIS College Algebra</td>
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<tr>
<td>ELECTIVES</td>
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<tr>
<td>Pre-Calc</td>
<td>Honors Pre-Calc</td>
</tr>
<tr>
<td>Statistics</td>
<td>Honors Statistics</td>
</tr>
<tr>
<td>Calculus Basics</td>
<td>CIS Honors Calculus</td>
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<tr>
<td>AP Honors Calculus BC</td>
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<tr>
<td>Discrete Mathematics</td>
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</tbody>
</table>

GUIDANCE & COUNSELING SUPPORT SERVICES
An effective Counseling Department recognizes individual growth and that learning takes place in all aspects of one’s life: intellectual, social, emotional and physical. Supporting this growth and development is essential in helping students make healthy and beneficial decisions.

Academic goals and post-secondary planning are also critical. The Hill-Murray Counseling Department is staffed by Licensed School Counselors, College Counselors, and a Clinical Psychologist.

MIDDLE SCHOOL COUNSELOR
Lisa Valentine lvalentine@hill-murray.org 651-748-2224

REGISTRAR
Mary McPherson mmcpherson@hill-murray.org 651-748-2428

CLINICAL PSYCHOLOGIST*
Dr. Julie Robinson jrobinson@hill-murray.org 651-748-2414

*For student referrals, please start with the student’s counselor.

Counseling services include academic, personal-social development, as well as post-secondary planning. Services available to all students: personal counseling | individual post-secondary planning | mental health education | monitoring of academic progress.
Through the Nicholas Center, Hill-Murray can meet the needs of neurodiverse students where they are in their educational journey. The Nicholas Center can provide coursework that provides enriching interventions for students to meet their individual goals. The prescriptive coursework is based on the student’s individual cognitive needs and has built-in assessments to measure growth. Currently, The Nicholas Center provides classes to support students who may have a diagnosed emotional or learning difference in multiple areas. To find out more about The Nicholas Center and how the program may work with your son or daughter, contact Brent Johnson, Vice Director of The Nicholas Center bgjohnson@hill-murray.org or Sara Johnson, Director of Literacy sjohnson@hill-murray.org.

**ACADEMIC STUDY SKILLS**

**STRATEGIC TUTOR**

*Full Year, 1 Credit each semester, 2 Credits Total*

A Strategic Tutor works 1 on 1 with a student to improve the student’s executive functioning. Tutors will collaborate with teachers to improve a student’s academic performance by laying out study plans helping students follow through on assignments, studying and assessments. For students with learning differences, their tutor will work with them to appropriately advocate for their individual learning needs.

**STRATEGIC STUDY LAB 6-7**

*Full Year, 1 Credit each semester, 2 Credits total*

*Elective 6-7, approval of The Nicholas Center*
STRATEGIC STUDY LAB 7-8
Full Year, 1 Credit each semester, 2 Credits total
Elective 7-8, approval of The Nicholas Center

This is more than just a study hall! This strategic study lab will be staffed with people who are there to help students learn in the way that’s best for that student. Using learning specialists, as well as current content teachers, this course will support the development of organizational skills, study skills, reading for content strategies, writing, math and science support. Students will be assigned to this class based on their academic needs.

READING

MIDDLE SCHOOL READING ENRICHMENT
Full Year, 1 Credit each semester, 2 Credits total
Elective 6-12, approval of The Nicholas Center

Students in this course will improve reading proficiency with instruction in fluency, vocabulary, and comprehension. Students will read leveled, high interest literature for both academic and recreational purposes. A strong emphasis will be placed on non-fiction for college prep and real world applications. Students will be encouraged and motivated to have a love for reading through realistic and individualized goal setting. Achieve 3000® is a computer based program that is utilized within Reading Enrichment to ensure students are reaching learning goals. Students will be assigned to this class based on their academic plan.

WILSON JUST WORDS®
Full Year, 1 Credit each semester, 2 Credits total - Elective 6-12, approval of The Nicholas Center

The Wilson Just Words program is a fast-paced, sophisticated, study of word structure that provides direct and explicit teaching of “how English works” for both decoding and spelling automaticity. It is appropriate for students in grades 6-12 who need a brush-up on basic word analysis skills, suffixes, prefixes and roots.

WILSON READING SYSTEM®
Full Year, 1 Credit each semester, 2 Credits total - Elective 6-12, approval of The Nicholas Center

The Wilson Reading System program is a fast-paced, sophisticated, study of word structure that provides direct and explicit teaching of “how English works” for both decoding and spelling automaticity. It is appropriate for students in grades 6-12 who need a brush-up on basic word analysis skills, suffixes, prefixes and roots.

MATH ENRICHMENT

We offer a three-year Algebra and Geometry program using the Assessment and Learning in Knowledge Spaces (ALEKS) System®, a web-based assessment and learning system that determines what a student needs to know in a course and then designs instruction around that content.

ASSISTIVE TECHNOLOGY

All Hill-Murray students receive either a Chromebook (Middle School) or a MacBook Air (High School), and our Assistive Technology program helps students maximize the capabilities of these machines. This program is available by individual request.
ENGLISH

0201 LITERATURE & LANGUAGE ARTS 6
Required for Grade 6, Full Year, 1 Credit each semester, 2 Credits total

In this course, fundamental writing, literature, reading, and communication skills are intertwined throughout the year. Students will focus on reading comprehension, vocabulary development, the writing process, literary study, language development, and lifetime study skills. Collaborative strategies are used to build knowledge and skills, as well as, to help students become independent readers, thinkers, and writers in an effort to foster success in middle school.

The workbook below can be used to help plan your course selections. Required courses are already listed, so fill in your elective choices in the open spaces.

**GRADE 6 // SCHEDULE**

<table>
<thead>
<tr>
<th>HR</th>
<th>1ST SEMESTER</th>
<th>2ND SEMESTER</th>
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<tbody>
<tr>
<td>1</td>
<td>Theology 6 / Phy Ed 6</td>
<td>Theology 6 / Phy Ed 6</td>
</tr>
<tr>
<td>2</td>
<td>Lit. &amp; Language Arts 6</td>
<td>Lit. &amp; Language Arts 6</td>
</tr>
<tr>
<td>3</td>
<td>Mathematics</td>
<td>Mathematics</td>
</tr>
<tr>
<td>4</td>
<td>Earth and Space Science</td>
<td>Earth and Space Science</td>
</tr>
<tr>
<td>5</td>
<td>Minnesota History</td>
<td>Minnesota History</td>
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<td></td>
<td>Lunch</td>
<td>Lunch</td>
</tr>
<tr>
<td>6</td>
<td>Pioneer Pathway</td>
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<td>7</td>
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<td>8</td>
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</tbody>
</table>

Required courses are listed period 1-6. Choose courses to fill in student’s additional 5 elective spots. Electives are shown on page 14.

**PORTAIT OF A HILL-MURRAY GRADUATE**

**INQUISITIVE**
Driven by curiosity, an independent thinker and lifelong learner
A critical thinker and innovator willing to take risks
A problem solver with the intellectual courage to consider new perspective
PIONEER PATHWAY

TO BE A PIONEER
Required for Grade 6, One Semester, 1 Credit total
Pioneer Pathway is a required Middle School course created to give students the tools to become engaged and successful Hill-Murray students and leaders. This course will focus on the “The Pioneer Way,” and will include the following units: Belonging, Executive Functioning, Goal Setting and Reflection, Relationships, Digital Citizenship, Navigating Challenges, Mindset, School Spirit, and Leadership.

MATHEMATICS

0301 PRE-ALGEBRAIC CONCEPTS
Full Year, 1 Credit each semester, 2 Credits total
This course continues the study of mathematics. Topics include: numbers and their operations, beginning algebra, beginning geometry and data analysis and probability. Technology applications are integrated throughout the course to make concepts more meaningful. The emphasis of this class is to prepare students for Pre-Algebra.

0304 PRE-ALGEBRA
Full Year, 1 Credit each semester, 2 Credits total
Topics in this course include: operations with positive and negative rational numbers, algebra, geometry, and data analysis. The focus of this course is proportional reasoning.

0306 MS ALGEBRA
Full Year, 1 Credit each semester, 2 Credits total
This first course in algebra will enable the student to represent problem situations with expressions, equations, inequalities and graphing. The focus will be on linear functions and algebraic techniques for application in various situations.

PHYSICAL EDUCATION

0006 PHYSICAL EDUCATION 6
Required for Grade 6, One Semester, 1 Credit total
Students will participate in team and individual activities that will help develop hand-eye coordination, speed, muscular resistance, flexibility, and team building. Student participation in learning cross training movements will be emphasized. Students will have access to our newly upgraded activity areas.

0401 MINNESOTA HISTORY 6
Required for Grade 6, Full Year, 1 Credit each semester, 2 Credits total
What is it about Minnesotans - beyond geography - that binds them together? The answer lies in the stories of Minnesotans from the first inhabitants to today’s immigrants. Students will explore the rich heritage of the state’s longest residents, the Dakota and Ojibwe, and how the arrival of European traders impacted their lives, as well as the impact of the Civil War on the state of Minnesota, the U.S. Dakota War, and the new immigrants whose cultural mosaic has enriched our state. Minnesota History students will also engage in a History Day research project that will challenge the course of: skills writing, discourse with peers, and the ability to formulate an opinion based on facts.

SCIENCE

0501 EARTH & SPACE SCIENCE 6
Required for Grade 6, Full Year, 1 Credit each semester, 2 Credits total
This course explores the interactions and formation of Earth’s main systems. Students will investigate the geosphere, atmosphere, and hydrosphere and how these systems interact with each other. Additionally, students will explore astronomical phenomena surrounding Earth and navigate big questions and theories regarding what we see and cannot see in the universe.

0106 THEOLOGY 6
Required for Grade 6, One Semester, 1 Credit total
This course introduces students to the foundational beliefs of the Catholic faith through the framework of the Nicene Creed. Students will gain an understanding of the main Mysteries of Faith, such as the Trinity, God the Father, Creator of everything, the Mystery of the Incarnation of the Son of God, Jesus Christ, and finally how the Holy Spirit is present and leading the life of the Church.
ENGLISH

0200 LITERATURE & LANGUAGE ARTS 7
Required for Grade 7, Full Year, 1 Credit each semester, 2 Credits total

This course builds upon the fundamentals of 6th grade through an integrated approach to reading, writing, speaking, and listening. Literature studies include analyzing key ideas and details, as well as, examining craft and structure in novels, short stories, poetry, drama, and non-fiction texts. Students will read widely to understand multiple perspectives, including those from diverse cultures. Language studies include developing the writing process in order to produce clear and coherent writing. Another primary goal of the course is to foster independent learners and encourage in-depth exploration of content.

MATHEMATICS

0301 PRE-ALGEBRAIC CONCEPTS
Full Year, 1 Credit each semester, 2 Credits total

This course continues the study of mathematics. Topics include: numbers and their operations, beginning algebra, beginning geometry and data analysis and probability. Technology applications are integrated throughout the course to make concepts more meaningful.
The emphasis of this class is to prepare students for Pre-Algebra.

**0304 PRE-ALGEBRA**
*Full Year, 1 Credit each semester, 2 Credits total*
Topics in this course include: operations with positive and negative rational numbers, algebra, geometry, and data analysis. This focus of this course is proportional reasoning.

**0306 MS ALGEBRA**
*Full Year, 1 Credit each semester, 2 Credits total*
This first course in algebra will enable the student to represent problem situations with expressions, equations, inequalities and graphing. The focus will be on linear functions and algebraic techniques for application in various situations.

**0307 INTERMEDIATE ALGEBRA**
*Full Year, 1 Credit each semester, 2 Credits total*
This course is a continuation of MS Algebra. The focus will be on quadratic functions, exponential functions, and will include data analysis and probability.

**0308 HONORS INTERMEDIATE ALGEBRA**
*Full Year, 1 Credit each semester - 2 Credits total*
This course is a continuation of MS Algebra. The focus will be on quadratic functions, exponential functions, and will include data analysis and probability. This course has more rigor than Intermediate Algebra, moves at a faster pace, and includes more topics.

**PIioneer Pathway**

**0892 DEVELOP YOUR PIONEER PATH**
*Required for Grade 7, One Semester, 1 Credit total*
Pioneer Pathway is a required Middle School course created to give students the tools to become engaged and successful Hill-Murray students and leaders. This course is a continuation of Pioneer Pathway (6) and will focus on Executive Functioning, Growth Mindset, Community Service & Leadership Projects, Digital Citizenship, as well as Social and Emotional health. This class is designed to dive deeper into student’s academic, social, and emotional growth over the past year.

**Physical Education**

**0001 PHYSICAL EDUCATION 7**
*Required for Grade 7, One Semester, 1 Credit total*
This class is activity-centered and is designed to meet the needs of the students in two important ways: exposure to a variety of lifetime sports and an emphasis on CrossFit movements. Students will have access to our newly upgraded activity areas.

**Theology**

**0107 THEOLOGY 7**
*Required for Grade 7, One Semester, 1 Credit total*
Through this course, students will understand the journey and process of a person practicing the Catholic faith. We will cover the seven Sacraments of the Catholic Church; learning about the ceremonies, requirements, and graces involved. We will spend time discussing why rituals and ceremonies are important practices for human beings to experience. We will also look at how these Sacraments relate to a person’s life as they grow from infancy to late adulthood and how the Church can be involved with a person’s experience of life throughout their time on earth.

**Science**

**0500 LIFE SCIENCE 7**
*Required for Grade 7, Full Year, 1 Credit each semester, 2 Credits total*
This course introduces students to the study of living things. Topics include: the scientific method, measurement, cell structure and function, classification, characteristics of plants and animals and humans’ relationship with the environment. Emphasis is on organization and note-taking, hands-on experimentation, problem solving, and discussion. Students will also be attending an Environmental Camp.

**Social Studies**

**0420 SOCIAL STUDIES 7**
*Required for Grade 7, Full Year, 1 Credit each semester, 2 Credits total*
American History from Colonial America through Present Day sets the backdrop for this course, where seventh graders will hone their skills in comparing and contrasting, critical thinking, and forming an opinion based in historical fact. Students will also utilize Socratic seminars, project-based learning, and a variety of alternative assessments.
The worksheet below can be used to help plan your course selections. Required courses are already listed, so fill in your elective choices in the open spaces.

**GRADE 8 // SCHEDULE**

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<thead>
<tr>
<th>HR</th>
<th>1ST SEMESTER</th>
<th>2ND SEMESTER</th>
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<tbody>
<tr>
<td>1</td>
<td>Theology 8/Phy Ed 8</td>
<td>Theology 8/Phy Ed 8</td>
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<tr>
<td>2</td>
<td>Lit. &amp; Language Arts 8</td>
<td>Lit. &amp; Language Arts 8</td>
</tr>
<tr>
<td>3</td>
<td>Mathematics</td>
<td>Mathematics</td>
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<tr>
<td>4</td>
<td>Physical Science 8</td>
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<tr>
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<tr>
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<td>Lunch</td>
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<tr>
<td>7</td>
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<td>Pioneer Pathway</td>
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<tr>
<td>8</td>
<td>Elective 1</td>
<td>Elective 2</td>
</tr>
</tbody>
</table>

Required courses are listed period 1-6. Choose courses to fill in student’s additional 5 elective spots. Electives are shown on page 14.

**ENGLISH**

**0202 LITERATURE & LANGUAGE ARTS 8**

*Required for Grade 8, Full Year, 1 Credit each semester, 2 Credits total*

The primary goal of this course is to continue to build knowledge and skills that help students transition into high school by becoming independent readers, writers, and thinkers. Reading focuses include: fiction, drama, poetry, non-fiction, and technical writing. Students have opportunities to self-select texts for personal enjoyment, interest, and academic tasks. Writing includes: perfecting the short answer paragraph and practicing multi-paragraph essays, short research papers, creative short stories, and technical writing. Grammar, vocabulary, media literacy, and speech are included as well.

**MATHEMATICS**

**0306 MS ALGEBRA**

*Full Year, 1 Credit each semester, 2 Credits total*

This first course in algebra will enable the student to represent problem situations with expressions, equations, inequalities and graphing. The focus will be on linear functions and algebraic techniques for application in various situations.
0307 Intermediate Algebra
Full Year, 1 Credit each semester, 2 Credits total
Prerequisite: Completion of MS Algebra
This course is a continuation of MS Algebra. The focus will be on quadratic functions, exponential functions, and will include data analysis and probability.

0308 Honors Intermediate Algebra
Full Year, 1 Credit each semester, 2 Credits total
Prerequisite: MS Algebra and approval of the Math Department
This course is a continuation of MS Algebra. The focus will be on quadratic functions, exponential functions, and will include data analysis and probability. This course has more rigor than Intermediate Algebra, moves at a faster pace, and includes more topics.

0312 Geometry
Full Year, 1 Credit each semester, 2 Credits total
This course covers basic Euclidean geometry. The focus will be reasoning and proof. Topics include triangle properties, right triangle trigonometry, polygons, circles, and solids.

0314 Honors Geometry
Full Year, 1 Credit each semester, 2 Credits total
Prerequisite: Approval of the Math Department and completion of Intermediate Algebra or equivalent.
This course covers basic Euclidean Geometry. The focus will be reasoning and proof. Topics include triangle properties, right triangle trigonometry, polygons, circles, and solids. This course has more rigor than Geometry, moves at a faster pace, and includes more topics.

0316 Geometry Through Woodworking
Full Year, 1 Credit each semester - 2 Credits total
This hands-on course combines the principles of geometry with the art and craft of woodworking. This course is designed to teach participants how geometry plays a crucial role in the design, construction, and aesthetics of woodworking projects. Whether you're a novice woodworker or have some experience, this course will enhance your skills and help you create more precise and visually appealing pieces.

0893 Portrait of a Pioneer
Required for Grade 8, One Semester, 1 Credit total
Pioneer Pathway is a required Middle School course created to give students the tools to become engaged and successful Hill-Murray students and leaders. This course will focus on the four pillars of Hill-Murray's Portrait of a Graduate (Leadership, Resiliency, Inquisitive, Compassionate). This course will incorporate elements of The Social Institute curriculum, encourage and inspire students to pursue their passions through exploring different H-M clubs and activities, career exploration and interests, as well as academically and socially prepare students for High School at Hill-Murray.

0108 Theology 8
Required for Grade 8, One Semester, 1 Credit total
This course exposes students to both the Christian tradition of prayer, which they will have the opportunity to put into practice, as well as, the basic tenets of Christian morality. Students will be exposed to prayer in various forms such as: the Our Father, Adoration, Meditation, Lectio Divina, Ignatian Prayer, and others. Students will also learn about the foundational aspects of Christian morality including: the Old and New Law, Sin, Virtue, and Catholic Social Teaching.

0502 Physical Science 8
Required for Grade 8, Full Year, 1 Credit each semester, 2 Credits total
Physical Science focuses on matter and its interactions with the environment. The students will demonstrate their understanding through labs, models, and hands-on inquiry activities. Students will work on developing explanations of natural phenomena and design solutions to problems.

0421 Social Studies 8
Required for Grade 8, Full Year, 1 Credit each semester, 2 Credits total
In this course, eighth graders will prepare for high school while practicing skills such as contextualization, historical research analysis and interpretation, and argumentation. Eighth graders will study influential groups and people from specific time periods in World History and how they impacted civilizations culturally, economically, religiously, and politically.
ART

**0835 MIDDLE SCHOOL ART 1**  
*One Semester, 1 Credit total - Elective Grades 6-8*

Students will focus on developing skills, which include: drawing, painting, sculpture, ceramics, and collage. They will have the opportunity to experiment and refine skills using a variety of art media. Elements and principles of design will be emphasized in each project. This course will develop an understanding of skills and concepts in art. Hands-on activities will provide students an opportunity to practice creative and critical problem solving. Students will explore different mediums and art techniques while creating two-dimensional and three-dimensional art projects.

**0839 MIDDLE SCHOOL ART 2**  
*One Semester, 1 Credit total - Elective Grades 6-8*

Students will have the opportunity to build upon their creative experiences in Middle School Art 1 by creating a portfolio of artwork for the first time. Students will learn more sophisticated techniques with drawing, painting, printmaking, sculpture, ceramics, and collage, and gain more exposure to contemporary and historical artists and their work. They will have freedom to follow their artistic interests and use the elements and principles of design to refine artwork and express their creative visions. Students will develop skills to produce quality photos of their finished work and assemble them into a digital portfolio which can grow and expand should they choose to take more visual arts courses in both middle and high school. Students must complete Middle School Art 1 before enrolling in Middle School Art 2.

**0811 MIDDLE SCHOOL COMPUTER GRAPHICS & DIGITAL PHOTOGRAPHY**  
*One Semester, 1 Credit total - Elective Grades 6-8*

The purpose of this course is to allow students to explore the ever-growing world of digital imaging and enable students to develop awareness of visual communication concepts and graphic design techniques. Students will develop an understanding of basic digital camera functions and photo composition. Students will learn what it takes to create a good photograph and how to improve photographs. Throughout the semester, students will learn some of the basics in Adobe Creative Suite®.

BUSINESS

**0700 IT’S MY BUSINESS!**  
*One Semester, 1 Credit total - Elective Grades 6-8*

This course introduces students to basic business and marketing concepts. Students will learn about consumer needs and wants. Students will be able to manage their own virtual business through an online simulation. They will explore business opportunities and create a basic business plan for their dream business. This class will stretch students’ imaginations and creativity by allowing them to develop innovative ideas. Personal finance concepts will be explored and students will become familiar with credit, debit, opportunities and risks. Students will be challenged to think creatively, collaborate and make wise financial and business decisions.

**0704 IT’S MY FUTURE!**  
*One Semester, 1 Credit total - Elective Grades 6-8*

Through this course, students will be able to identify their personal brand. Students will determine their skills, values and interests which will help them recognize potential future career opportunities. They will identify both their technical and soft skills. Students will participate in a personal soft skills evaluation, and students will be able to develop and practice soft skills throughout the semester. Students will recognize numerous jobs within communities and globally, and will appreciate the value each brings to the economy.

**0705 IT’S MY WORLD!**  
*One Semester, 1 Credit total - Elective Grades 6-8*

Throughout this course, students will experience the worldwide interdependence of producers, consumers, and the global workforce. Students will gain an appreciation for cultural business practices around the world. The pros and cons of global trade will be presented and trade barriers will be discussed. Students will recognize currency exchange rates, and will participate in a global international business multi-cultural project.

ENGLISH

**0227 CREATIVE WRITING**  
*One Semester, 1 Credit total - Elective Grades 6-8*

Students will be introduced to the writing process through journal writing, as well as the writing of short stories and poetry. Techniques for brainstorming and idea development will be emphasized. One-act plays, internet activities and descriptive and persuasive writing are some of the assignments that students will explore. Writing for the 21st century will be emphasized.
0239 READING THROUGH THE GENRES
One Semester, 1 Credit total - Elective Grades 6-8
This course will allow students to find new books in current genres they enjoy and find new genres to explore in their future readings. The genres covered in this class will include Realistic Fiction, Historical Fiction, Science Fiction, Fantasy, Non-Fiction, Drama, and Poetry. Each mini-unit will provide different ways for students to interact with the text through writing, speaking, and listening, and project-based activities.

MATH

0350 MATH RESOURCE
One Semester Elective Class for Students Enrolled in Pre-Algebraic Concepts or Pre-Algebra, 1 Credit for each semester taken
This semester long elective reinforces concepts students may not have for Pre-Algebraic Concepts and Pre-Algebra classes. Students receive group and individualized learning based on math needs. Students will set goals along with a math specialist to work on math concepts that may need to be strengthened. This is a pass/fail class that may be taken for one or two semesters.

MUSIC

0824 MIDDLE SCHOOL BAND WIND ENSEMBLE OR DRUMLINE PERCUSSION ENSEMBLE
One Semester, 1 Credit total, or Full Year 2 Credits total - Elective Grades 6-8
This performing ensemble stresses basic fundamentals of instrumental technique, music reading and overall musicianship. Large group rehearsals are augmented by sectionals, individual assignments, as well as periodic written work. Attendance at concerts is required of all members. Most performances happen outside the school day. Prior playing experience is not necessary and we accept beginners.

0840 MIDDLE SCHOOL ORCHESTRA
One Semester, 1 Credit total, or Full Year, 2 Credits total - Elective Grades 6-8
This performing ensemble stresses basic fundamentals of string technique, music reading and overall musicianship. Full group rehearsals are augmented by sectionals, individual assignments and periodic written work. All string students in grades 6-8 are accepted. Attendance at all concerts is required of all members.

PHYSICAL EDUCATION

0007 MOVEMENT & WELLNESS ACTIVITIES
One Semester, 1 Credit total - Elective Grades 6-7
This course will allow 6th and 7th grade students to explore and participate in a variety of physical activities that will provide opportunities for cross-training benefits. Students will participate in activities that require problem-solving, cooperation, skill development, teambuilding, and competition, including tournament play. The course focuses on different aspects of personal fitness, including: muscular strength, cardiorespiratory endurance, muscular endurance, flexibility, and agility. Student preferences will be considered when choosing individual, dual, team sports, and fitness activities.

0004 MOVEMENT & WELLNESS ACTIVITIES
One Semester, 1 Credit total - Elective Grades 7-8
This course will allow students to explore and participate in a variety of physical activities that will provide opportunities for cross-training benefits. Students will participate in activities that require problem-solving, cooperation, skill development, teambuilding, and competition, including tournament play. The course focuses on different aspects of personal fitness, including: muscular strength, cardiorespiratory endurance, muscular endurance, flexibility, and agility. Student preferences will be considered when choosing individual, dual, team sports, and fitness activities.
**SCIENCE**

**0503 EXPLORERS OF THE GALAXY**  
*One Semester, 1 Credit total - Elective Grades 6-8*

Students will look deeper at Earth’s role and place in our solar system as well as our universe. They will investigate the earth-moon-sun system, the planets in our solar system, stars in our universe, and other galaxies. Students will research and discover what benefits we have gained in our daily lives through space exploration. Students will also apply content covered in their core science classes and see how its real-life applications impact space. This course will be hands-on, collaborative, and technology based. We will use computer models, virtual reality as well as manipulatives to better understand Earth’s role in our universe. Students will use interactive notebooks to record labs and activities.

**STUDY SKILLS**

**0252 MIDDLE SCHOOL STUDY SKILLS**  
*One Semester, 1 Credit total, or Full Year 2 Credits total - Elective Grades 6-8*

This course will focus on developing vital study skills for middle school students that they can apply and practice in their content area classes. Students will work to develop test-taking skills, increase their reading speed, and use various study strategies. In addition, students will work to apply literacy strategies (e.g. using context clues, identifying main ideas and details) to content. After taking this course, students should feel better equipped to handle the organizational and cognitive challenges of middle school classes and beyond.

**INNOVATION AND DESIGN**

**0905 STEM 1**  
*One Semester, 1 Credit total*

As a project-based course, students will delve into topics related to science, technology, engineering, and mathematics. They will develop basic competencies in computer-aided drafting software and design principles. Having access to 3D printers, vinyl cutters and a laser cutter allows them to put their designs into production. Students will also keep a log and develop practices for documenting their ideas, designs, and data.

**0906 STEM 2**  
*One Semester, 1 Credit total - Prerequisite: STEM 1*

STEM 2 is a project-based course where students will explore topics related to technology, engineering, and robotics. Students will continue to develop proficiencies in computer-aided drafting software and programming languages learned in STEM 1. They will have access to 3D printers, EV3 Mindstorms, a CNC LASER Cutter, and a vinyl cutter. Students will apply mechanical and mathematical concepts to reflect on the performance of their designs. Projects will vary from year to year to reflect the interests of the students/instructor.

**0727 COMPUTER SCIENCE FOUNDATIONS- AN INTRODUCTION TO COMPUTATIONAL THINKING AND CODING**  
*One Semester, 1 Credit total*

Students begin the semester engaged in “unplugged” games and activities designed to hone their skills in computational thinking. These skills are directly related to structures commonly found in computer code including: giving clear directions to be followed correctly every time (algorithms), choosing an efficient way to give directions when repetition is involved (loops), and providing a decision making process when there are multiple options. Students move into doing block-coding in Scratch, (developed by MIT) and is used around the world to teach basic coding, and Code.org, which is one of the leading members of the worldwide “Hour of Code” movement to teach students computer science and computer coding. Students will complete a research project related to the history of computers and the evolution of technology.
**THEATRE**

**0850  CREATIVE DRAMATICS**
*One Semester, 1 Credit total - Elective Grades 6-8*
Creative Dramatics is a combination of theater games, exercises and story-telling techniques. Student skills are strengthened in creativity, imagination, sensory awareness and problem solving. This course improves social skills such as self-control, ability to work in groups, self-image, self-confidence and overcoming shyness. Theater skills developed include pantomime, improvisation and dialogue.

**0853  MOVEMENT FOR THEATER**
*One Semester, 1 Credit total - Elective Grades 6-8*
Students will improve their sense of rhythm, facial expressions, coordination, muscle memory, flexibility, and balance. There will be an overall focus on the importance of safety and caring for the body. This class will offer sections in stage combat, musical theater dance, animal behaviors and age studies.

**0852  INTRODUCTION TO STAGECRAFT**
*One Semester, 1 Credit total - Elective Grades 6-8*
Step behind the scenes to discover tools, techniques, and skills required in a theatrical production. This is an introduction to the technical theatre disciplines such as: lighting, scenic construction, painting, costumes, props and design. The class will assist in the production of a Hill-Murray Theatre musical or play, aiding in the set construction and painting. Along the way, students will also learn theatrical terminology and history as they pertain to technical theatre.

**WORLD LANGUAGE**

**0604  EXPLORING WORLD LANGUAGES**
*One Semester, 1 Credit total - Elective Grades 6-8*
The goal of the course is to introduce World Languages and cultures to students, as well as to excite them about taking a World Language in the future. Students will explore the world through French, Spanish, Chinese, and Latin basic vocabulary, cultural information, and geography. Students will also experience authentic art, music, and cuisine. This elective may be taken only once during middle school.

**0624 SPANISH I**
*Full Year, 1 Credit each semester - 2 Credits total - Elective Grade 8*
This middle school course uses high school level 1 curriculum. It is open to students in grade 8. It is an introduction to the Spanish language. A beginning development of real-life skills is the basis of language learning through reading, writing, speaking, and listening, as well as an introduction to the culture. Main topics include: greetings and introductions, expressing likes and dislikes, describing self and others, shopping for food and clothing, pastimes, sports, hobbies, and future plans.

**0644 HERITAGE SPANISH 8-12**
*Full Year, 1 Credit each semester - 2 Credits total - Elective in grades 8-12 - Prerequisite: placement by language proficiency test score and discussion with a member of our Spanish Department.*
This year-long elective course is intended for students who speak Spanish at home or who have completed a Spanish immersion program. This course will focus on building the students’ academic literacy and understanding of grammatical structures. Upon successful completion of this course, students will be eligible to register for Spanish III or higher. The final decision on which course will be most appropriate will be determined by the instructor.

**0608 FRENCH I**
*Full Year, 1 Credit each semester - 2 Credits total - Elective Grade 8*
This middle school course uses high school level 1 curriculum. It is open to students in grade 8. It is an introduction to the French language. Beginning
Hill-Murray School offers pathways to certification in Innovation and Design, giving students the opportunity to gain experience in a comprehensive science, technology, engineering, and math (STEM) curriculum. This includes hands-on experience with computational thinking, engineering, 3D printing, fabrication, design, and computer programming. Courses in this pathway introduce students to innovative and cutting-edge topics and allow them to develop their technical skills with industry-standard software and tools. The pathway culminates with a capstone research or design project in the Pioneer Passion Projects course. As students work toward this pathway certificate, they will develop creativity, problem-solving skills, and technical abilities that are vital for success in college and beyond. See the diagram for course requirements to complete the pathway.

### INNOVATION AND DESIGN CERTIFICATION PATHWAYS

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<thead>
<tr>
<th>BLOCK 1</th>
<th>BLOCK 2</th>
<th>BLOCK 3</th>
<th>BLOCK 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>(MS) STEM 1 and/or STEM 2</td>
<td>- Computer Science 2</td>
<td>- AP Computer Science</td>
<td>- Pioneer Passion Projects</td>
</tr>
<tr>
<td>- Computer Science 1</td>
<td>- Physical Computing</td>
<td>- Digital Fabrication</td>
<td>- Internship</td>
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<tr>
<td>- Robotics</td>
<td>- Student Technologist</td>
<td>- Robotics</td>
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Requires 4 courses, 1 from each block.

### NOTES

This is your journey, make the best of it!
Entrepreneurial Academy Certification Pathway

Hill-Murray School offers a comprehensive Entrepreneurial Academy Pathway giving students the opportunity to gain experience with career exploration, entrepreneurship, marketing, finance, accounting and international business. These courses introduce students to advanced business topics, and develop their interpersonal and problem-solving skills by working in collaborative teams. See chart below.

Our Entrepreneurship Certification Pathway takes it to the next level, and prepares students for the Enterprise Business Internship which will allow students to gain experience in a professional business setting. Completing this pathway will help set students apart from their peers in both college and the workforce at large.

**Entrepreneurial Pathways**

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### Entrepreneural Academy Certification Pathway

**Middle School**

- **It’s My Business!** (1 Semester)
- **It’s My Future!** (1 Semester)
- **It’s My World!** (1 Semester)

All students must take this course first:

- **Entrepreneurship / DECA** (1 Semester)

Next, select two of the six courses below:

**High School**

- **Advanced Business Concepts** (grades 9-12, 1 Semester)
- **Sales & Marketing** (grades 10-12, 1 Semester)
- **Accounting and Personal Finance** (grades 10-12, 1 Semester)
- **AP Global Business** (grades 11-12, 2 Semesters)
- **Ethics and Leadership** (grades 11-12, 1 Semester)
- **Career Planning** (grades 11-12, 1 Semester)

Certification Enrichment Classes (not required)

- **Internship** (grade 12, 1 Semester)
- **Independent Study** (grade 12, 1 Semester)

**Notes**

Be the light for others to see!