



Hill-Murray School

The Catholic Benedictine Prep School, Grades 6-12

HIGH SCHOOL REGISTRATION GUIDE 2020-2021

Proud of our Lasallian and Benedictine heritage.

Welcome to the 2020-2021 registration guide!

Hill-Murray is excited about our 2020-2021 registration guide! Within this guide, you should be able to find the information needed to plan out your child's individualized High School pathway that will build up to a successful post-secondary experience! In browsing through this registration guide, please note that we have added College Reading and Study Skills as one of our 20 College in the Schools classes and have added electives in our Technology Department and Physical Education Department. Furthermore, we are happy to, once again, offer for-credit summer classes to students that want to look at building space into their High School schedule for an extra Study Hall, World Language or Fine Art class, such as, Band or Choir!

Our student academic and mental support is some of the strongest in the metro with five school Guidance Counselors, a College Counselor and Clinical Psychologist, Dr. Julie Robinson. Dr. Robinson's expertise in assessment and her rich professional network are a huge support to the Hill-Murray community! We are excited about your child's upcoming school year and if you have any questions, please reach out to Rita Albert at 651-748-2201 for assistance.

As you look deeper into this booklet, you will see it has been designed to provide information for students and parents to make informed decisions regarding course selection during their years at Hill-Murray. At Hill-Murray, we understand each student benefits from an individual path. We strongly encourage families to fully utilize the capabilities within Naviance, a computer-based program, to assist in academic, career/post-secondary, and personal/social development. Utilizing Naviance, Guidance and Counseling staff will help students explore interests, talents, abilities, and post-high school goals and plans by utilizing assessments such as:

- **Strengths Explorer** - This tool will help students discover talents and potential strengths.
- **Do What You Are** - This tool will help students learn more about personality, strengths and blind spots to learning, as well as suitable careers and majors.
- **Learning Style Inventory** - Begin a journey to discover individual learning and working style.
- **MI (Multiple Intelligences) Advantage** - This tool helps uncover a student's intelligence profile by examining abilities and preferences in different areas.
- **Career Interest Profile/Career Cluster Finder** - This tool identifies career clusters which may be a good match based on activities of interest, personal qualities, and favorite subjects.

Armed with the information provided within Naviance and our Counseling Department's years of experience, your student will advance toward career and college goals!

We realize students' original plans of study may change by the time they are seniors. Planning ahead allows for better choices as these changes arise. Students are strongly encouraged to discuss their course selections with their counselors, teachers, and parents.

A review of the post-high school plans of our graduates in recent years indicates that more than 95 percent of our students go onto a two or four-year college. These results emphasize Hill-Murray's dedication to academic success. Whatever students may choose as their next step beyond Hill-Murray, we believe they should plan for some type of post-high school training. The curriculum is designed to prepare students to pursue any of these options.

We also believe in the value of a liberal arts education. High school should be a time for students to broaden their experience by taking a variety of courses. Oftentimes, taking a course outside of a student's "typical" interests can lead him or her to discover a special talent. Such classes can also lead to valuable lifetime leisure and hobby activities.

Students and parents should realize that individual course selections of students may vary. In that regard, the licensed school counselors are always available to provide information and assistance in course planning based on a student's abilities, talents, interests, needs and plans.

Guidance Counselor/Learning Coordinators:

Mr. George Grau - Students A-Hd
Mr. Charlie Cicalello - Students He-Mn
Mrs. Jodi Hurley - Students Mo-Sp
Mr. Aaron Goulet - Students Sq-Z
Ms. Carrie Egan - College Counselor
Dr. Julie Robinson - Ph.D., L.P. | Clinical Psychologist

Guidance & Counseling Support Staff:

Mrs. Mary McPherson - Registrar
Mrs. Rita Albert - Guidance & Counseling Assistant

College Preparation

The Guidance Department's sequential college planning curriculum is designed to work directly with Hill-Murray students and their parents to explore careers and colleges, assist in resume writing and help navigate the entire college application and financial aid process from start to finish. This includes: helping with college searches, visits, applications, personal

statements, essays, scholarship searches, understanding the financial aid process, and appealing financial aid awards. There are daytime workshops and evening meetings to assist students and parents in the post-secondary planning process.

Four-Year College

Four-Year College Four-year college admission decisions are based primarily on a student's high school record. In evaluating a student's high school record, colleges look at GPA, ACT/SAT test results, courses taken and participation in co-curricular and community activities. There is no "one best college" for each student. There are many excellent colleges (more than 4,000 nationwide) that could be a good "fit" for each student.

The courses a Hill-Murray student should take will depend on the individual student, the type of post-secondary school a student plans to attend and the intended area of study. Students who are looking at specific four-year schools should consult with those schools to check on admission standards. As a general rule, four-year colleges require:

4 Years of English, 3 Years of Math, 3 Years of Science,
3 Years of Social Studies, 2 Years of a World Language.

Some colleges, however, recommend a more rigorous high school curricular program which includes four years of the core courses. For example, the University of Minnesota - Twin Cities requires four years of math. We recommend students challenge themselves by taking the accelerated classes they feel they can handle and for which they qualify. Requirements may vary by college. For specific questions, contact our College Counselor, Carrie Egan at 651-748-2238.

Community, Technical & Private Career Colleges

In general, a well-rounded education is the best preparation for admission into Community, Technical and Private Career schools. In high school, courses in the fields of Technology Education, Business, and Fine Arts provide students with exposure to possible career choices and can help prepare a student for later study in one of these areas. These courses can also lead to a variety of careers.

Course Registration Policy

Care in the selection of courses is encouraged to avoid schedule changes. In the event that a course is not offered due to insufficient enrollment, or enrollment exceeds course capacity, a student's alternate choice listed on registration materials will be used to complete the schedule. Alternate choices will also be used in those cases where students fail to demonstrate sufficient success in a current course necessary to move on to the next level. Therefore, it is important that students list alternate choices they sincerely wish to take. In the event that a course registration change needs to be made, the change needs to be initiated with the student's counselor and approved by a parent/guardian. We prefer requests for course registration changes for next year be

made prior to the last day of school this year. **After July 31, first semester course registration change requests will no longer be considered.** Requests for specific teachers, or to change teachers, or hours, will not be honored. This policy helps maintain Hill-Murray's high academic standards and encourages students to maintain the consistent level of hard work and effort that is required to be successful.

Credit Recovery

If a student fails a class, a contract for credit recovery will be established with the teacher and a plan will be created to make up the credit. The cost for credit recovery is \$275 per semester (summer counts as a semester).

Advanced Placement (AP) Courses

AP offerings provide students courses of study that can help them to receive college credit by taking an "AP" test when they complete the course. See the NCAA listings for the CIS courses that are available at Hill-Murray.

College in the Schools (CIS)

CIS offerings provide students courses of study at Hill-Murray that can concurrently allow them to receive college credit through the University of Minnesota - Twin Cities. **CIS courses are available; see course listings.**

PACC

The Saint Mary's PACC program partners with Hill-Murray in order to bring Saint Mary's undergraduate-level courses into our classrooms. Earning college credit for a fraction of the cost of tuition, participating students can expect the same workload, learning activities, projects, and exams as the courses taught to first-year students at Saint Mary's.

Senior to Sophomore

This program connects high-achieving Hill-Murray students with key resources on the St. Cloud State University campus while allowing them to remain in their high school. Hill-Murray students get a chance to accelerate their learning and prepare for a future on a college campus.

Articulated credit through Century College

-Accounting and Personal Finance
-Entrepreneurship/DECA
-Ethics and Leadership
-Sales and Marketing

*Students earning a B or better have the option to receive Articulated Credits through Century College. Please meet with your counselor if you are interested in Articulated Credit.

A Study Hall is recommended for students taking multiple CIS, PACC and Senior to Sophomore courses. Additional fees apply to students taking classes through the U of M, Saint Mary's University or St. Cloud State University.

Post-Secondary Enrollment Options (PSEO)

PSEO is a state program for juniors and seniors that allows students to enroll in non-sectarian courses at eligible colleges and universities for high school credit. Students must meet the requirements of the post-secondary institution they wish to attend, as determined by the college or university. Students considering this option are expected to be responsible, motivated, and independent learners.

Hill-Murray will accept post-secondary credits for graduation under the following circumstances:

1. All students wishing to participate in the PSEO program must inform their Hill-Murray counselor of their intent to participate by March 30 (prior to the school year in which you wish to enroll in the PSEO program). Their Hill-Murray guidance counselor will assist them in the enrollment process.
2. Only elective courses, not offered at Hill-Murray, acceptable for graduation credit.
3. Students may earn a maximum of one PSEO credit per semester.
4. All PSEO courses must be taken for a letter grade and will be reported on the Hill-Murray transcript. Grades will be calculated into the GPA.
5. Students must be scheduled for one free period (Study Hall), per semester, when participating in PSEO.
6. Schedule changes to accommodate participation in PSEO will be made only as the Master Schedule permits.

Hill-Murray Accepted Online Courses

To provide options for students in their learning, Hill-Murray will all online credits to count for elective credits towards graduation from accredited classes. Exceptions may be allowed to this policy for required classes through the Student Assistance Team. The exception procedure begins by contacting your counselor and explaining your need. The counselor will then guide you to the paperwork that needs to be completed. Examples of types of situations where exceptions will be granted include: medical conditions, students seeking to overload their schedule to make space for credit recovery in a required class, student has outgrown our math options, students transferring into Hill-Murray without all credit needed for graduation or other.

Current on-line providers we accept include; K-12 Mizzou, Online-Northern Star, Online Wisconsin Virtual School, and Brigham Young University.

Technical School Offerings

Students interested in technical school classes such as Automotives, Welding, Carpentry or other technical classes should set a meeting with their counselor to talk about opportunities available through local community colleges.

NCAA ELIGIBILITY FOR DIVISION I AND DIVISION II Test Scores (ACT/SAT):

It is always the responsibility of the student-athlete and the parent (s) to know and understand athletic eligibility and to choose courses wisely. Earning top grades in core classes and corresponding ACT/SAT scores are the best way to determine academic eligibility to play your sport in college. Electives and most religion courses do not count in NCAA eligibility.

- A prospective student-athlete should register with the NCAA on their website (www.eligibilitycenter.org) before the end of the Junior year. Students must present a corresponding test score and core-course GPA on the sliding scale and should take care in planning for core courses.
- All ACT and SAT attempts before initial full-time collegiate enrollment may be used for initial eligibility.
- Enter 9999 during ACT or SAT registration to ensure the testing agency reports your score directly to the NCAA Eligibility Center.

Core Grade-Point Average:

Only core courses that appear on the high school's list of NCAA Courses on the NCAA Eligibility Center's website (www.eligibilitycenter.org) will be used to calculate your core-course GPA. Use the list below as a guide. A student-athlete must have 16 core courses at time of graduation; 10 by senior year. Core courses are English, Math, Social Sciences, Science, and World Language.

Intro Lit/Comp 9	HON Pre-Calculus
Intro Lit/Comp 9 HON	AP/HON Calculus
World Lit/Comp 10	CIS/HON Calculus
World Lit/Comp 10 HON	Intro to Statistics & Probability
Advanced Writing/11	AP/HON Statistics & Probability
College Bound Writing/12	ADV Anatomy/Physiology
Classic Lit 11/12	Biology
Historical Fiction 11/12	HON Biology
Non-Fiction Lit 11/12	Biotechnology
AP Lang/Comp 11	Chemistry
AP Lit/Comp 12	HON Chemistry
CIS/HON Intro to Public Speaking	CIS/HON Anatomy/Physiology
CIS/HON US History	CIS/HON Physics
Government/Economics	Environmental Science I/II
CIS/HON Political Science	Physical Science
HON Economics	Physics
Human Behavior	French 1
Intro to Sociology	French 2
Psychology	French 3
US History	HON French 4A
World Geography	HON French 4B
World History	HON French 5
Intermediate Algebra	HON French 6
Honors Intermediate Algebra	Spanish 1
Calculus Basics	Spanish 2
Geometry	Spanish 3
ADV Geometry	HON Spanish 4
HON Geometry	Advanced Honors Spanish -
Algebra II/Trig	College Credit
ADV Algebra II/Trig	Ecumenism and World Religion
HON Algebra II/Trig	(the ONLY religion course NCAA
Pre-Calculus	approves)
ADV Pre-Calculus	

This worksheet should be used to help you plan your course selections. Begin by locating the section that lists the grade you are entering next year. Required courses for each year are already listed, so fill in your elective choices in the open spaces. All students must take a minimum of six credits each semester. Study Hall, which is not for credit, may be taken every semester of every year without affecting the 48-credit graduation requirement.

GRADUATION REQUIREMENTS

Forty-eight semester credits and four service credits are required to earn a Hill-Murray high school diploma including the following:

English	8 credits	Theology	8 credits
Health	1 credit	Science/Technology*	6 credits
Fine Arts	1 credit	Social Studies	6 credits
Mathematics	6 credits	Electives	11 credits
Phy Ed 9	1 credit	Service	4 credits total (1 per year)

* Please meet with a counselor if you plan on using a Technology class for your Science credit!

	GRADE 9		GRADE 10	
HR	1st Semester	2nd Semester	1st Semester	2nd Semester
1	Theology 9	Theology 9	Theology 10	Theology 10
2	Intro Lit/Comp	Intro Lit/Comp	World Lit/Comp	World Lit/Comp
3	Mathematics	Mathematics	Mathematics	Mathematics
4	Physical Science	Physical Science	Biology	Biology
5	Health	Phy Ed 9	World History	World History
6				
7				
		One Service Credit		One Service Credit
	GRADE 11		GRADE 12	
HR	1st Semester	2nd Semester	1st Semester	2nd Semester
1	Liturgy and Sacraments	Theology	Personal Ethics & Justice	Theology
2	Advanced Writing	Literature	College Bound Writing	Literature
3	U.S. History	U.S. History	Government	Economics
4	Science or Technology*	Science or Technology*		
5	Mathematics	Mathematics		
6				
7				
		One Service Credit		One Service Credit

***Int. students can take a religion course of their choice for their junior or senior year. World Religion or Spirituality is suggested.

This worksheet should be used to help you plan your course selections. Begin by locating the section that lists the grade you are entering next year. Required courses for each year are already listed, so fill in your elective choices in the open spaces. All students must take a minimum of six credits each semester. Study Hall, which is not for credit, may be taken every semester of every year without affecting the 48-credit graduation requirement.

GRADUATION REQUIREMENTS

Forty-eight semester credits and four service credits are required to earn a Hill-Murray high school diploma including the following:

English	8 credits	Religious Studies	6 credits
Health	1 credit	Science/Technology*	6 credits
Fine Arts	1 credit	Social Studies	6 credits
Mathematics	6 credits	Electives**	13 credits
Phy Ed 9	1 credit	Service	4 credits total (1 per year)

*Please meet with a counselor if you plan on using a Technology class for your Science credit!

**Elective Credits may be earned through alternative experiences.

		GRADE 9		GRADE 10	
HR		1st Semester	2nd Semester	1st Semester	2nd Semester
1		Theology 9	Theology 9	Theology 10	Theology 10
2		Intro Lit/Comp	Intro Lit/Comp	World Lit/Comp	World Lit/Comp
3		Mathematics	Mathematics	Mathematics	Mathematics
4		Physical Science	Physical Science	Biology	Biology
5		Health	Phy Ed 9	World History	World History
6					
7					
			One Service Credit		One Service Credit
		GRADE 11		GRADE 12	
HR		1st Semester	2nd Semester	1st Semester	2nd Semester
1		Advanced Writing	Literature	College Bound Writing	Literature
2		U.S. History	U.S. History	Government	Economics
3		Science or Technology*	Science or Technology*	Personal Ethics & Justice***	
4		Mathematics	Mathematics		
5		Liturgy and Sacraments***			
6					
7					
			One Service Credit		One Service Credit

***International students can take a religion course of their choice for their junior or senior year. World Religion or Spirituality is suggested.

PIONEER

SUMMER



Hill-Murray Pioneer Summer Experience

Pioneer Summer Experience provides enriching exploration and remediation in Hill-Murray students' lives. Through these summer programs, students can build up their ACT skills, learn how to fly a plane, keep up on their math or reading skills or choose from many other exciting opportunities. Registration is online and is posted in early spring of 2019. If you would like to learn more about the program, please contact Juli Baecker at 651-748-2232.

In addition to for-credit classes, students can also take experiential courses as well. Some of these enrichment classroom experiences include:

- Intro to Aviation
- Virtual Reality Explorers
- Camp Invention
- The Art of the Printing Press
- Drawing Bootcamp
- Summer Pops Orchestra
- Digital Music Production Lab
- Summer Theatre
- Pioneer Jumpstart
- Many Athletic Camps for all students: hockey, soccer, basketball, football and more.

Students in need of credits or wishing to create space in their schedule for other course work have Pioneer Summer Experience for-credit courses as an option. These courses are offered through the Pioneer Summer Experience and can be added into a student's graduation plan. Space is limited within these courses and priority is given to Seniors in need of coursework to graduate. Please contact your counselor if this is an option you are looking at putting into your graduation plan.

0030 SUMMER FITNESS
M-TH | JUNE 8 - JULY 1 | 1PM - 3:30PM

1 Semester, 1 credit, Elective 10-12 | \$250
1 Semester of physical education is required for graduation. One semester of physical education is required for graduation. Students should have a good bike, helmet, and good walking/hiking shoes. Monday, students will bike area trails like the Gateway Trail in North St. Paul. Tuesday, students will hike trails in the Maplewood area. Wednesday and Thursday will be activity days depending on the weather. Typical units offered are: Tennis, Frisbee Golf, Ultimate Frisbee, Footgolf, Softball, Badminton, Pickleball, Ping Pong. We will be flexible with the units offered based on student interest. An off campus waiver must be signed before class begins. Please Note: The final three days of class will be an ONLINE ONLY component June 29 - July 1, 2020

0738 BUILD A VIRTUAL REALITY VIDEO GAME

M-TH | JUNE 15 - JULY 23 | 12:30PM - 3:30PM

1 Semester Technology Academy Tracks
Elective Credit | \$275 | Grades 9-12

Have you and your friends ever talked about making video games, but didn't know where to start? Want to start learning about virtual reality (VR) and programming? Here's your answer: video games and virtual reality at the same time! In this class, you will work on your own and in a group with Fusion 360 and Blender 3D modeling software, Unity video game engine, C# scripting, and state-of-the-art HTC Vive virtual reality hardware. *No programming background required.*

0724 INTRODUCTION TO CODING

M-TH | June 15 - July 23 | 9am - 12pm 1 Semester

Technology Academy Tracks
Elective Credit | \$275 | Grades 9-12

Explore the building blocks of the digital world all around us. Dipe toe in the world of website and mobile application design, and learn why application design and programming are and will continue to be, one of the fastest growing job sectors in the world. Learn to program in the world's most popular computer languages. The programming language of the web, JavaScript, will also be part of the curriculum. Students will be exposed to PHP and Python, and recognize how these are used to program sites such as Facebook and YouTube. In addition, students will learn about programming in Ruby and jQuery, and study how these can make sites and applications more interactive.

0603 SUMMER SPANISH SUCCESS

M-F | June 3 - July 14 | \$275

8:00am - 11:00am AND/OR ONLINE

1 Credit for incoming students grades 8-12.

Recommended for middle school & high school students

NOTE: please read course description carefully. This six week course has been designed with the flexibility to accommodate student/family busy summer schedules. It will be taught in both the traditional classroom setting and online. While physical attendance in the actual classroom is recommended - this class may be taken almost entirely online if necessary/desired. Students who miss M-TH session(s) will be able to complete the coursework online.

This is a "pass/fail" class. Student must pass the Hill-Murray Spanish 2 entrance exam to receive credit for this class.

SPECIAL NOTES:

1. The Course Start Date is listed as June 3 ONLY because materials will be listed online on June 3 so that students may complete an assignment prior to attending the first group class to be held at Hill-Murray on Monday, June 8. The assignment(s) will be due by June 8.
2. The first group class session at Hill-Murray will be held on Monday, June 8.
3. Group Classes will be held daily at Hill-Murray on Monday through Thursday unless otherwise noted. Class will be taught online every Friday and on the dates noted below.

4. Course Pre-work (June 3 - 5) Pre-Exam Review (July 6,-9)
5. The Test will be given on Tuesday, July 14 at 2:00 p.m. The test will NOT be available online.

This course is structured to provide a review of the most commonly taught Spanish 1 grammar concepts in order to increase the probability of a student's success in passing a Spanish 2 entrance exam. Do you have knowledge of basic Spanish vocabulary such as numbers, telling time, dates, weather, and family? Are you familiar with basic verb forms, such as soy, es, tengo, estoy, and estás? This course is for students who have studied Spanish but need to develop stronger foundational skills before advancing to a more rigorous high school Spanish 2 class. This includes students who may have struggled in Spanish 1 and need to review Spanish 1 grammar prior to entering Spanish 2.

It is especially geared toward students with years of elementary school Spanish who wish to enter high school at the Spanish 2 level but may be missing some of the grammar needed to pass their high school Spanish 2 entrance exam.

This summer class will provide students the opportunity to review essential high school Spanish 1 grammar concepts. At the end of this course, incoming students grades 8 - 12 may choose to take Hill-Murray's placement test to determine whether they are ready for a high school Spanish 2 course.

All students will require a three-ring binder, a notebook, and a pen. Students will also each need daily access to a laptop for use during classes and to complete online work.

0120 ECUMENISM AND WORLD RELIGIONS

M-F | JULY 8 - JULY 31 | 1PM-4:30PM

1 Semester, 1 Credit | \$275 | Grades 11-12

The course will cover similarities and differences between Eastern Orthodox, Protestant, and Evangelical Churches with the Catholic Church. The Catholic approach to ecumenism and the accomplishments off modern ecumenical dialogue will be examined. The course will also focus on interreligious dialogue between the Catholic Church with Native American, Jewish, Muslim, and Buddhist beliefs

Find our FULL SUMMER DIRECTORY on our website!

Through the Nicholas Center, Hill-Murray is able to meet the needs of a very neurodiverse student population. The Nicholas Center is able to provide coursework that provides enriching interventions for students to meet their individual goals. The prescriptive coursework is based off of a 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, please contact the Director of The Nicholas Center, Brent Johnson, at 651-748-2450.

DIAGNOSTIC TESTING

Recently hired Clinical Psychologist, Dr. Julie Robinson. Julie joins Hill-Murray with more than 20 years of practice at Children's Hospital. Julie's expertise in assessment and her rich professional network are a huge support to the Hill-Murray community! If you would like to learn more, please contact Rita Albert at 651-748-2201.

TUTORING

Students that need assistance in core classwork or who are looking for an additional boost in their ACT preparation can be helped within The Nicholas Center. Tutoring can be offered before or after school to meet a student's needs. Please contact Rita Albert at 651-748-2201.

ASSISTIVE TECHNOLOGY

All High School students enrolled at Hill-Murray have a MacBook. Based off a student's needs, programs can be installed to assist a student in their area of need. Examples of assistive technology accommodations include dictation software, audio enhancement, etc. Families can meet to have an assistive technology consultation by contacting the director of the Nicholas Center.

ACADEMIC STUDY SKILLS

(SEM 1) COLLEGE READING AND STUDY SKILLS 11-12

(SEM 2) COLLEGE READING AND STUDY SKILLS 11-12

2 Semesters, 1 Credit each semester - 2 Credits total

Elective 11-12 approval of The Nicholas Center

Students can earn dual credit with St. Cloud State (2 credits) for successful completion of this 2 semester class. Students will learn college level application of problem solving strategies, study strategies, note taking and test taking to enhance individual learning experiences and to prepare for examinations in college coursework. *A tuition fee will be charged for University credits.*

STRATEGIC STUDY LAB 9-10

2 Semesters, 1 Credit each semester - 2 Credits total
Elective 9-10, approval of Nicholas Center

STRATEGIC STUDY LAB 11-12

2 Semesters, 1 Credit each semester - 2 Credits total
Elective 11-12, approval of 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 them. 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

HIGH SCHOOL READING ENRICHMENT

2 Semesters, 1 Credit each semester - 2 Credits total
Elective 9-12, 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 READING SYSTEM®

2 Semesters, 1 Credit each semester - 2 Credits total
Elective 6-12, approval of The Nicholas Center

Students whose basic reading and spelling skills are significantly below their academic potential may request remediation with the Wilson Reading System®. The Wilson Reading System consists of 12 steps of direct, systematic, code-based, interactive, multi-sensory instruction. It emphasizes total word construction. For students of all ages and ability levels, it provides the skills necessary to decode (read) words accurately and fluently and to encode (spell) as they learn to decode.

MATH

MATH ENRICHMENT

2 Semesters, 1 Credit each semester - 2 Credits total
Math 9-12, (Middle School classes may be offered as needed), approval of The Nicholas Center

This Hybrid taught class utilizes the ALEK's math program to provide an opportunity for students to enrich their Algebra and Geometry skills so they have a robust foundation. Students within this class will trade off between direct instruction and computer-based instruction to provided them with an experience that enriches their individual needs.

COURSE DESCRIPTIONS

ART

Hill-Murray High School Art Offerings

Art Studio	Sculpture & Illustration <i>Studio Art 1 offered in even years</i>		
	Drawing & Painting Studio <i>Art 1 offered in odd years</i>	Studio Art 2	Studio Art 3
	Ceramics 1	Ceramics 2	Ceramics 3
Digital Studio	Photography 1	Photography 2	
	Computer Graphics 1	Computer Graphics 2	Computer Graphics 3

0804 DRAWING & PAINTING (STUDIO ART 1, OFFERED IN 2020-21)

1 Semester, 1 Credit Elective 9-12

This course provides an experience with drawing and painting using unconventional and conventional tools and materials. Wood, sanders, chisels, pencils, charcoal, ink pens & acrylic paint on stretched canvas will all facilitate easy-to-learn classical approaches to drawing and painting. Emphasis will be placed upon learning the art elements (line, shape, color, value, texture, space and form) and the principles of design (unity, contrast, balance, emphasis, movement, and rhythm) so that the subtle meanings of any image can be better understood. This will provide a strong foundation for the other studio art courses offered, as well as an appreciation for art and our cultural heritage. Students will participate in critiquing art and giving feedback to their peers. This course is offered on odd graduation years.

0816 SCULPTURE & ILLUSTRATION (STUDIO ART 1, OFFERED IN 2021-22)

1 Semester, 1 Credit Elective 9-12

A variety of easy-to-learn techniques for ink drawing, printmaking, collage, and sculpture will be the major experiences of this art class. Emphasis will be placed upon learning the art elements (line, shape, color, value, texture, space and form) and the principles of design (unity, contrast, balance, emphasis, movement, and rhythm) so that any image or art object's subtle meanings can be revealed. This will provide a strong foundation for the other studio art courses offered, as well as an appreciation for art and our cultural heritage. Students will participate in critiquing art and giving feedback to their peers. This course is offered on even graduation years.

0803 CERAMICS I

1 Semester, 1 Credit Elective 9-12

This course will focus on the basics of three-dimensional design with an emphasis on wheel-thrown pottery. Students will be introduced to topics of ceramic history, hand-building methods with clay, texture, glazes and design. They will also explore the technical aspects of clay and sculptural tools, and discover how pottery can be both decorative and functional.

0806 CERAMICS II

1 Semester, 1 Credit Elective 10-12

Prerequisite: students must have completed Ceramics I. This course is an advanced studio class that builds on the skills and knowledge developed in Ceramics I. Advanced projects using hand-building and wheel-throwing techniques, as well as decorating and glazing will be completed for assessment. Sketchbook/sourcebook documentation or research and design will be required.

0808 CERAMICS III

1 Semester, 1 Credit Elective 10-12

Prerequisite: students must have completed Ceramics II and obtain the teacher's signature.

This course is designed for advanced, self-motivated students with a proven interest in ceramics and commitment to the study of art and design. Students will explore advanced hand-building and wheel-thrown techniques and develop an understanding of how to effectively create decorative, functional, sculptural and aesthetically pleasing works of art.

0817 STUDIO ART 2

1 Semester, 1 Credit Elective 10-12

Prerequisite: students must have completed Drawing & Painting OR Illustration & Sculpture (OR Art Fundamentals or Drawing & Painting 1 taken prior to Fall 2019)

Studio Art 2 is a course for students who are interested in refining and expanding their expertise with a favored medium & subject matter, and exploring new materials and approaches, both traditional or non-traditional, which may include various types of mixed media, drawing, painting, printmaking, and sculpture. Students will examine artists working within these media, solve more complex design problems, and be encouraged to create exploratory and conceptual art pieces and develop their personal voice. This class is particularly recommended for students who are intent upon submitting an art portfolio for college applications. Students will participate in regular class critiques.

0820 STUDIO ART 3

1 Semester, 1 Credit Elective 10-12

Prerequisite: MUST have successfully completed at least two semesters of art and have the approval of the teacher.

Studio Art 3 is for the very advanced, self-motivated student who has demonstrated a strong commitment to the study of art, teacher-directed studies are offered in areas of specialization such as drawing, painting, sculpture, mixed media, computer graphics, photography or further developing their areas of interest. Students will have the opportunity to build their portfolios. The process for applying for college art scholarships will also be covered. Students will participate in regularly in-class critiques.

0818 COMPUTER GRAPHICS

1 Semester, 1 Credit Elective 9-12

This course brings students into the world of digital imaging and computer graphics. Course work will be completed on Mac laptops, using digital cameras, scanners and printers. We work with Adobe Creative Suite 6 software concentrating mainly on Photoshop and Illustrator, which have become the benchmark for digital imaging. Students will develop an idea into a design by practicing basic drawing and tracing techniques, create line art, logos, packages and poster design. Learning to use Adobe Creative Suites is a must for students pursuing careers in marketing, business, journalism, PR work, design, advertising, illustration, web design and video game design. Students will participate in weekly critiques.

0819 COMPUTER GRAPHICS 2

1 Semester, 1 Credit Elective 10-12

Prerequisite: students must have completed Computer Graphics 1.

This course is for the very advanced, self-motivated student who has demonstrated a strong commitment to computer graphics and digital imaging. With the continued use of Adobe Creative Suite 6, this course introduces more design aspects beneficial for students pursuing careers in illustration, advertising, fashion design, interior design, web design, photojournalism, journalism, marketing and business. Students will do a semester-long project that solves a problem or need for a real client. Students will also do work that develops and builds upon their own area of interest.

0830 COMPUTER GRAPHICS III

1 Semester, 1 Credit Elective 10-12

Prerequisite: students must have completed Computer Graphics 2 and obtain the teacher's signature.

This course is an independent study for the very advanced, self-motivated student who has demonstrated a strong commitment to computer graphics and digital imaging. With the continued use of Adobe Creative Suite 6, this course introduces more design aspects beneficial for students pursuing careers in illustration, advertising, fashion design, interior design, web design, photojournalism, journalism, marketing and business. Students will have the opportunity to complete an internship with the marketing department of a business in the community, or choose an industry that fits their area of interest, and complete an independent study that requires the student to apply their experience, resourcefulness, and creativity to that industry's design needs. This experience will allow the student to build up a portfolio of work, and discover a greater level of power, precision, and control within advertising and design.

0829 PHOTOGRAPHY

1 Semester, 1 Credit Elective 9-12

Since its origin, photography has served as a significant method of documenting the human experience, as well as providing a means of artistic expression. This introductory level photography course will cover the history and technical elements of photography, design and composition and operation of a manual digital camera. Students will have the opportunity to participate in project presentations and critiques. It is highly recommended that students have easy and regular access to a digital camera that allows for manual control of exposure, aperture and shutter speed.

0860 PHOTOGRAPHY II

1 Semester, 1 Credit Elective 10-12

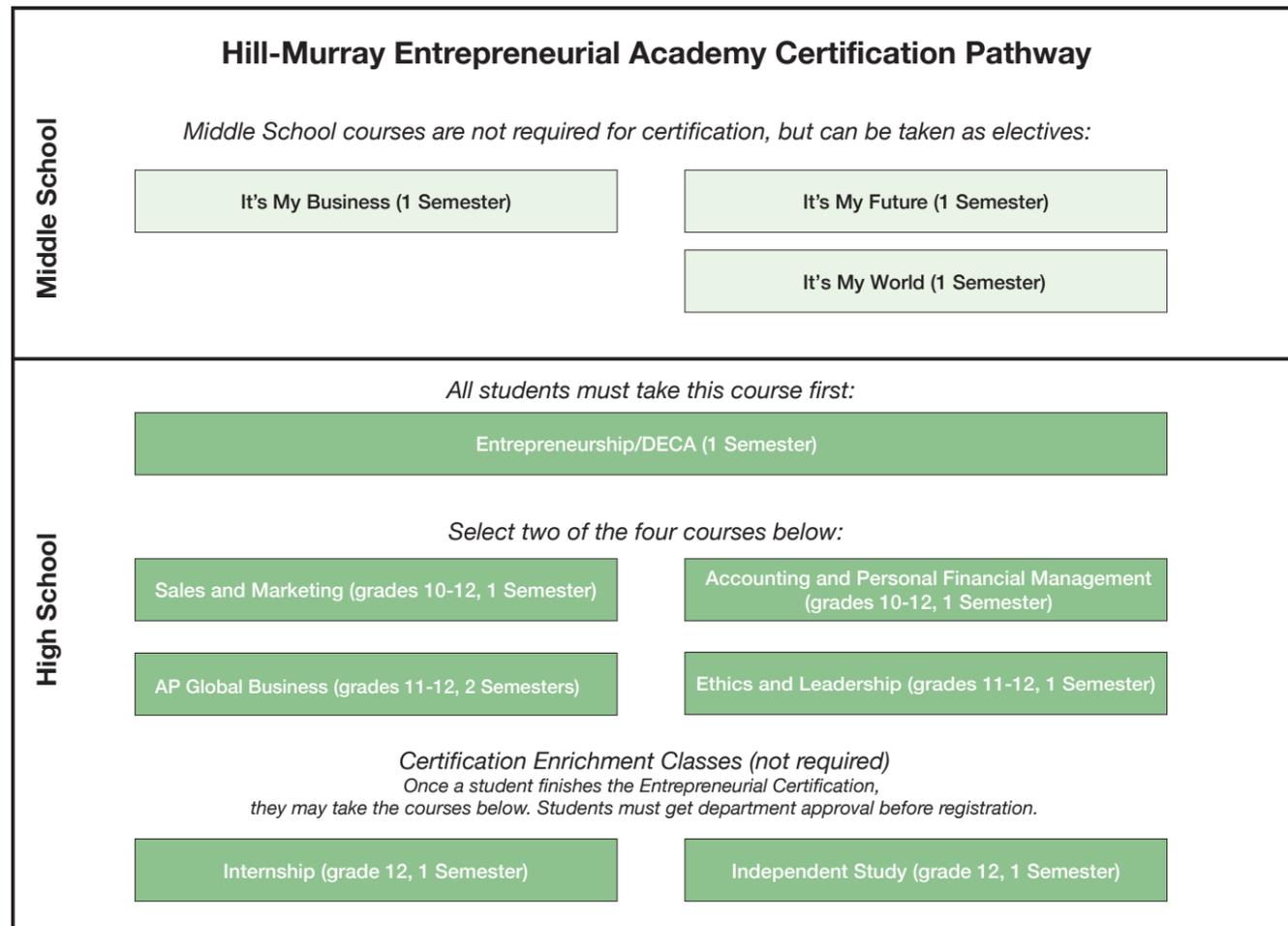
Prerequisite: students must have completed Photography and obtain the teacher's signature.

This course is designed for students wanting to build on the knowledge gained in Photography I. Students should be self-motivated and compelled to understand how to capture powerful images. Students will explore design aspects of photography and learn to use them effectively. A digital camera with manual capabilities is recommended for this course.

ENTREPRENEURIAL PATHWAY

ENTREPRENEURIAL ACADEMY CERTIFICATION PATHWAY

Hill-Murray School offers a comprehensive Entrepreneurial Academy Certification Pathway, giving students the opportunity to gain experience with career exploration, entrepreneurship, marketing, finance, accounting and global business. This pathway offers courses that will introduce students to advanced business topics, and develop their interpersonal and problem-solving skills by working in collaborative teams. Our Entrepreneurship Academy 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. See diagram below for required courses to complete the certification pathway.



BUSINESS EDUCATION

0702 ACCOUNTING & PERSONAL FINANCIAL MANAGEMENT*

1 Semester, 1 Credit Elective 10-12

This class is designed to give students the skills they need to manage their money and to make wise, safe, financial decisions. This class will help students by teaching them practical, personal finance concepts and skills. Budgeting, building a solid credit score, saving, investing and planning for college are all part of the curriculum. Students will also receive a strong foundation in accounting principles. Students will learn about the accounting cycle, accounting transactions, and how to prepare financial statements. Students will become familiar with accounting practices and have a thorough foundation for post-secondary accounting courses.

0703 ENTREPRENEURSHIP/DECA*

1 Semester, 1 Credit Elective 9-12

Students in this class will learn about developing and managing a small business. Innovative product ideas, independent businesses, and franchising businesses will all be explored. Marketing plans, promotions, organizational structure and culture, social responsibility, laws and regulations, equipment, and facilities will all be considered and evaluated for a small business. Students will learn how to format and compose a business plan.

0713 SALES & MARKETING*

1 Semester, 1 Credit Elective 10-12

This course will help students explore components of advertising in the business world, understand marketing and discover how to apply what they learn to both personal and business settings. Steps of the sales process and how to gain customer loyalty will be covered. Students will learn about the marketing mix, promotional strategies, marketing ethics, market research, consumer behavior and other marketing topics. Activities will include: realistic, hands-on assignments and projects. This class will also include guest speakers as available, giving students a chance to talk to business marketing professionals.

**11th and 12th grade students earning a B or better in this class have the option to receive articulated credits through Century College. Please meet with your counselor if you are interested in articulated credit.*

0718 - A (Sem 1) AP GLOBAL BUSINESS

0718 - B (Sem 2) AP GLOBAL BUSINESS

Full Year, 1 Credit each semester, 2 credits total
Elective 11-12

This Advanced Placement Course will allow students to explore numerous real-world business topics on an international level. Students will develop and utilize 21st-century skills such as collaboration, teamwork, project management and research for multiple projects. China? India? Latin America? Multiply a company's success and impact exponentially by harnessing the opportunities with the U.S. and globally. With 95% of the world's population existing outside of the United States, the need to understand foreign markets and global business issues has increased at a dramatic pace. This global business course will expose students to the complex international environment. A fee is applied if taking the AP exam in May.

0740 ETHICS AND LEADERSHIP

(Fulfills a religion requirement)*

1 Semester, 1 Credit Elective/Religion 11-12

Becoming a leader is an intentional process of growth that must be lived out experientially. One must have the will to say "yes" and even "no" to an unending series of tests, large and small, each demanding that we take one more step toward a definition of who we are. We must be ready to define our values, our character, and our leadership style. For durable, strong leaders, the process will not end. It will become a way of life, not only in business, but within our families, our various communities, and the world.

0730 ENTERPRISE BUSINESS INTERNSHIP

1 Semester, 1 Credit Elective 12

Qualified students who complete the business education course track will have the opportunity to apply for an internship. Students will apply their Junior year, and if selected, will leave Hill-Murray for their 7th hour class during one semester of their Senior year. They will work in a structured environment and learn the complexities of a successful business. This internship is modeled after college internships. Students will be expected to complete a resume and portfolio of current accomplishments. Prerequisites: Entrepreneurship/DECA 0703 Plus 2 of the following: Accounting and Personal Finance 0702 Sales and Marketing 0713 Global Business 0718 Ethics and Leadership 0740 Signature of the business education instructor.

COURSE DESCRIPTIONS

0721 ADVANCED BUSINESS CONCEPTS - INDEPENDENT STUDY

1 Semester, 1 Credit Elective 11-12

This course will focus on real-life marketing and business situations. The student will develop a deeper awareness and analysis of entrepreneurship, marketing, and business relations and strategies. Student will analyze current business situations and develop optimal solutions to challenges. Student will complete project(s) in the area of focus chosen.

Prerequisites: Entrepreneurship/DECA 0703 Plus 2 of the following: Accounting and Personal Finance 0702 Sales and Marketing 0713 Global Business 0718 Ethics and Leadership 0740 Signature of business education instructor.

0780 CAREER PLANNING 111

1 Semester, 1 Credit 11-12 (2 SCSU college credits)

Exploration of interests, values, abilities, personality, and goals as they relate to educational and career planning. Self-assessment, major and career information research, decision-making, workplace trends, resume writing, job searching skills, and career management.

A tuition fee will be charged for University credits.

ENGLISH

0204-A (Sem 1) INTRODUCTION TO LITERATURE & COMPOSITION 9 0204-B (Sem 2) INTRODUCTION TO LITERATURE & COMPOSITION 9

Full Year, 1 Credit each semester - 2 Credits total

This course provides a holistic approach to English language and literature. Major units include: short stories, novels (To Kill a Mockingbird, Until They Bring the Streetcars Back, and Of Mice and Men), drama (Romeo and Juliet), poetry, study skills, writing, grammar, and independent reading projects (and other works of fiction and non-fiction). Public speaking, spelling and vocabulary are integrated into each unit.

0212-A (Sem 1) HONORS INTRODUCTION TO LITERATURE & COMPOSITION 9 0212-B (Sem 2) HONORS INTRODUCTION TO LITERATURE & COMPOSITION 9

Full Year, 1 Credit each semester - 2 Credits total
Prerequisite: Must score 90% or higher on the qualifying exam and summer reading exam and paper.

The first year of the Honors English program provides a holistic study of all major facets of the English language and literature. Grammar, vocabulary and essay writing are the major focuses of the language study. Literary studies cover the four major genres of novels, drama, short stories and poetry. Major works include: To Kill a Mockingbird, Until They Bring the Streetcars Back, Romeo and Juliet, and Of Mice and Men.

0206-A (Sem 1) WORLD LITERATURE & COMPOSITION 10 0206-B (Sem 2) WORLD LITERATURE & COMPOSITION 10

Full Year, 1 Credit each semester - 2 Credits total

This course focuses on the study of world literature, featuring the following major works: Persepolis, The Boy Who Harnessed the Wind, Lord of the Flies, Oedipus Rex, and excerpts from The Odyssey. Major writing projects include literary analysis/argumentation and synthesis writing. In addition, grammar and vocabulary are studied throughout the year.

0214-A (Sem 1) HONORS WORLD LITERATURE & COMPOSITION 10 0214-B (Sem 2) HONORS WORLD LITERATURE & COMPOSITION 10

Full Year, 1 Credit each semester - 2 Credits total

Prerequisite: Must earn a qualifying score on the exam and fulfill other requirements

The second year of the Honors English program focuses on deepening students' understanding of literary concepts through world literature. Major works include: House on Mango Street, Oedipus Rex, A Midsummer Night's Dream, Persepolis, The Lord of the Flies, and excerpts from The Odyssey. Composition is a central component of the course; students will be pushed to break free from the five-paragraph essay and compose more complex literary arguments. In addition, ACT grammar concepts and vocabulary are studied throughout the year.

WRITING & LITERATURE

Students in grades 11 & 12 must take 1 semester of Writing and 1 semester of Literature.

11th Grade = Advanced Writing 11 and 1 Literature

(see choices below)

12th Grade = College Bound Writing 12 and 1 Literature

(see choices below)

0230 ADVANCED WRITING 11

1 Semester, 1 Credit

This class will begin by looking at examples from the ACT and practice 5 paragraph essays. Students will learn argumentation including Ethos, Pathos, and Logos. Students will write an advertisement analysis paper and a major research paper based off of a fictional novel.

0248 COLLEGE BOUND WRITING 12

1 Semester, 1 Credit

Writing in this class will focus on career-oriented writing, research, looking through a variety of lenses for writing, and the personal narrative, and critical analysis papers. Students will produce multiple drafts of writing and practice skills of organization, critical analysis, and research. Students will read from a wide range of texts in literature, media, and academic disciplines. Assignments move from personal response papers to formal academic essays.

COURSE DESCRIPTIONS

0245 NON-FICTION 11 & 12

1 Semester, 1 Credit

The foundation of this course is reading non-fiction and thinking about some of the more profound questions about life: Where do I find purpose? What are worthy ambitions? This class covers contemporary nonfiction in the areas of a self-help text, a historical memoir, and a journalistic analysis. Current novels include: Unbroken, The Other Wes Moore, and The Outliers. Students will analyze texts for their style through close reading activities. Students will find textual evidence to support analysis of what the text conveys.

0246 HISTORICAL FICTION 11 & 12

1 Semester, 1 Credit

This course will read a variety of historically accurate fiction novels and prepare students for college level reading. We will examine characterization, voice, historical accuracy, and point of view. Current novels include: *The Passing*, *The Lost Symbol*, and *The Things They Carried*.

0224 CLASSIC LITERATURE 11 & 12

1 Semester, 1 Credit

Students will examine a series of American and British authors and their works in a historical context. Students will examine a variety of literature that is considered classic. This course will equip students with the knowledge of the foundation of great literature and discover how American Literature and British Literature developed.

0255 ONLINE HYBRID CLASSIC LITERATURE 11 & 12

1 Semester, 1 Credit

Students will examine classic American and British literature from a variety of authors. This course will equip students to analyze how American literature and British literature developed through the years, as well as how literature is a reflection of the historical-cultural context in which it was composed. This course does not meet every day. Many assignments are completed online and outside of class. Students in this course need to be highly motivated and self-regulated as the workload is consistent with that of Classic Literature 0224.

0217-A (Sem 1) AP / LANGUAGE & COMPOSITION / AMERICAN LITERATURE 11

0217-B (Sem 2) AP / LANGUAGE & COMPOSITION / AMERICAN LITERATURE 11

Full Year, 1 Credit each semester - 2 Credits total

Prerequisite: Current English teacher's recommendation

This rigorous class in composition and American Literature is comprised of six units: early American, colonialism, nationalism, American Renaissance, industrialization and expansion and modernism. All periods are studied intensively using a college-level textbook and novels such as *The Scarlet Letter* and

The Great Gatsby. The class is heavily focused on composition: compare/contrast, rhetorical devices and strategies, analysis of writing styles, the research paper, and several timed essay writings. Students in this course have the opportunity to take the National Language and Composition Advanced Placement exam in the spring. A fee is applied if taking the AP exam in May.

0219-A (Sem 1) AP / LITERATURE & COMPOSITION 12 0219-B (Sem 2) AP / LITERATURE & COMPOSITION 12

Full year, 1 Credit each semester - 2 Credits Total

Prerequisite: Current teacher's recommendation
Students may take the course for dual enrollment (PACC) credit through St. Mary's University of Minnesota and/or AP credit. Separate fees are applied for each option.

Students gain exposure to works of fiction, poetry, and drama, and acquire experience in careful reading, interpretation, and critical analysis of literary texts (verbal and written) from various genres and time periods. Students not only read but also actively engage with literary texts, and in the process become familiar with literary conventions and discourse. Other forms of writing, such as college application and personal essays, are also an integral component of the course. The coursework will prepare students for the AP Literature and Composition exam, which may be taken in May. A fee is applied if taking the AP exam in May.

ENGLISH ELECTIVES

The following elective courses do not fulfill an English requirement for graduation.

0220 CIS INTRODUCTION TO PUBLIC SPEAKING

1 Semester, 1 Credit Elective 11-12

Prerequisite: Current teacher's recommendation

This course is designed to teach students basic public speaking skills. The course helps students develop an understanding of the basic principles of oral communication, with a focus on improving skills in researching, writing, and organizing effective presentations that are appropriate to particular audiences. Students will develop, improve, and gain confidence in basic delivery skills. Students will also learn to critically evaluate speeches and develop an awareness of, and appreciation for, the responsibilities of ethical communication.

A tuition fee will be charged for the U of M credits.

0222 CREATIVE WRITING

1 Semester, 1 Credit Elective 10-12
Prerequisite: Current English teacher's recommendation.

Creative Writing focuses on the writing and creative processes: pre-writing/brainstorming, drafting, and editing/revising. Although the final product is important, emphasis is also placed on how writers arrive at the final product. Large group discussions on topics such as: plot, conflict, voice, language usage, and audience, as well as large group editing of students' works are important in this class. Required assignments include: short stories, autobiography, poetry and plays. Students who are seriously committed to improving their writing and who possess creativity and self-discipline are encouraged to apply for this course.

0232 YEARBOOK

1 Semester, 1 Credit Elective 10-12
Prerequisite: Current English teacher's recommendation and approval of yearbook advisor

Students in this course will study and implement basic journalism principles including: writing, reporting, photography, composition, layout and design using current industry desktop publishing software. Students registering for this class will serve as part of the yearbook staff and will gain practical experience as coursework will be used for publication in The Omega.

0234 FILM & MEDIA STUDIES

1 Semester, 1 Credit Elective 10-12
In this introductory course, the student gains critical understanding of the power and intent of visual media. Film as art, cinematic elements and vocabulary, the history of film and television and their impact on the American culture are some of the areas included. Students will have the opportunity to create a short film by applying hands-on cinematic concepts techniques, and editing skills

MATHEMATICS

Hill-Murray Math Course Offerings

Middle School

Pre-Algebraic Concepts

Pre-Algebra

MS Algebra

High School

Intermediate Algebra or Honors Intermediate Algebra

Geometry or Honors Geometry

Alg II/Trig or Adv Alg II/Trig or Honors Alg II/Trig

Electives

Pre-Calc or Adv Pre-Calc or Honors Pre-Calc

Statistics or AP Statistics

Calculus Basics or CIS Honors Calculus
(Prerequisite: Pre-Calc)

0307-A (Sem 1) INTERMEDIATE ALGEBRA

0307-B (Sem 2) INTERMEDIATE ALGEBRA

Full Year, 1 Credit each semester - 2 Credits total
Prerequisite: MS Algebra

This course is a continuation of Middle School Algebra. The focus will be on quadratic functions, exponential functions, and will include data analysis and probability.

0308-A - HONORS INTERMEDIATE ALGEBRA (Sem 1)

0308-B - HONORS INTERMEDIATE ALGEBRA (Sem 2)

Full Year, 1 Credit each semester - 2 Credits total
Prerequisite: MS Algebra and approval of Math Department

This course is a continuation of Middle School 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-A (Sem 1) GEOMETRY

0312-B (Sem 2) GEOMETRY

Full Year, 1 Credit each semester - 2 Credits total
Prerequisite: Advanced Algebra 1 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.

0314-A (Sem 1) HONORS GEOMETRY

0314-B (Sem 2) HONORS GEOMETRY

Full Year, 1 Credit each semester - 2 Credits total
Prerequisite: Honors Algebra 1 or approval of the Math Department

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.

0318-A (Sem 1) ALGEBRA II / TRIG

0318-B (Sem 2) ALGEBRA II / TRIG

Full Year, 1 Credit each semester - 2 Credits total
Prerequisite: Geometry

This is a course in second-year algebra that includes the following topics: linear equations, polynomials, rational expressions, irrational numbers, quadratic equations, functions, conics, exponential functions, systems and an introduction to trigonometry. The emphasis of the course is the continued application of algebraic concepts in various situations.

0320-A (Sem 1) ADVANCED ALGEBRA II / TRIG

0320-B (Sem 2) ADVANCED ALGEBRA II / TRIG

Full Year, 1 Credit each semester - 2 Credits total
Prerequisite: Advanced Geometry

This course presents algebraic concepts visually with the use of technology. Graphing calculators are used to integrate ideas from algebra and geometry. The topics studied are: quadratic equations, systems, functions, conics, exponential functions, logarithmic functions, rational functions, trigonometry and discrete topics. The emphasis of the course is the expression of mathematical ideas discovered through investigation.

0336-A (Sem 1) HONORS ALGEBRA II / TRIG

0336-B (Sem 2) HONORS ALGEBRA II / TRIG

Full Year, 1 Credit each semester - 2 Credits total
Prerequisite: Pre-Algebra

Prerequisite: approval of Math Department
This course presents topics including: linear and quadratic equations, systems, functions, conics, exponential properties, logarithmic functions, rational functions and trigonometry. Technology applications are integrated throughout the course to make concepts more meaningful.

0334-A (Sem 1) PRE-CALCULUS

0334-B (Sem 2) PRE-CALCULUS

Full Year, 1 Credit each semester - 2 Credits total
Prerequisite: Approval of Math Department

This is a Pre-calculus course providing the student with a balance between theory and application. The topics included are: graphing, functions, trigonometry, quadratics, and discrete topics. *Graphing calculators are required.*

0335-A (Sem 1) ADVANCED PRE-CALCULUS

0335-B (Sem 2) ADVANCED PRE-CALCULUS

Full Year, 1 Credit each semester - 2 Credits total
Prerequisite: Approval of Math Department

This is a Pre-calculus course providing the student with a balance between theory and application. The topics included are: graphing, functions, trigonometry, quadratics, and discrete topics. *Graphing calculators are required.*

0333-A (Sem 1) HONORS PRE-CALCULUS

0333-B (Sem 2) HONORS PRE-CALCULUS

Full Year, 1 Credit each semester - 2 Credits total
Prerequisite: Approval of Math Department

This course includes all mathematical topics necessary to prepare for Honors Calculus. Major topics developed are: a comprehensive study of trigonometry, the properties and graphs of the major groups of functions, probability, statistics, other discrete topics and an introduction to limits. Graphing calculators are required.

0338-A (Sem 1) CALCULUS BASICS

0338-B (Sem 2) CALCULUS BASICS

Full Year, 1 Credit each semester - 2 Credits total
Prerequisite: Pre-Calculus and teacher recommendation

This course introduces many topics that will help students to gain exposure to Calculus concepts. Topics include limits, derivatives, and use of Calculus in the real world. Graphing calculator is required.

0328-A (Sem 1) CIS HONORS CALCULUS

0328-B (Sem 2) CIS HONORS CALCULUS

Full Year, 1 Credit each semester - 2 Credits total
Prerequisite: B in Hon. Pre-Calculus or an A in Adv. Pre-Calculus or approval of Math Department

This course is a College in the Schools course in Calculus I through the University of Minnesota. Topics include differentiation of single variable functions and basics of integration of single variable functions. Applications include: max/min, related rates, area and curve sketching and emphasizes the use of calculator and cooperative learning. Graphing calculator is required. Upon completion of this course, a student will receive 4 college credits.

A tuition fee will be charged for the U of M credits.

COURSE DESCRIPTIONS

0330-A (Sem 1) INTRODUCTION TO STATISTICS & PROBABILITY

0330-B (Sem 2) INTRODUCTION TO STATISTICS & PROBABILITY

Full Year, 1 Credit each semester - 2 Credits total
Prerequisite: Approval of Math Department

This course is an introduction to elementary statistics and probability. Students will gain an understanding of the ways in which the methods and theories of statistics are used in organizing, analyzing and interpreting data. *The TI83/84 PLUS graphing calculator is required.*

0332-A (Sem 1) AP / HONORS STATISTICS & PROBABILITY

0332-B (Sem 2) AP / HONORS STATISTICS & PROBABILITY

Full Year, 1 Credit each semester - 2 Credits total
Prerequisite: B or better on the final exam for Advanced Algebra II and a B or better in Advanced Algebra II or higher level math class, or teacher recommendation.

This Advanced Placement course is an excellent option for students who wish to complete studies equivalent to a one semester, introductory, non-calculus-based college level statistics course. The AP course will introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data.

A graphing calculator with statistical capabilities such as the TI-83/84 is required. Students who successfully complete the course and AP exam may receive college credit, advanced placement, or both. *A fee is applied if taking the AP exam in Math.*

MUSIC

0826-A (Sem 1) WOMEN'S ENSEMBLE

0826-B (Sem 2) WOMEN'S ENSEMBLE

1 semester or full year 1 Credit each semester - 2 Credits total Elective 9-12 (FOR WOMEN 9-12 THAT CANNOT BE IN VIVACE CHOIR) Teacher signature required.

This performing ensemble stresses a high level of musicianship including vocal technique and sight-reading. Emphasis is placed on learning and performing a variety of vocal music literature representing all major musical periods. Learning takes place in daily large group rehearsals as well as sectionals and individual sessions. Attendance at school concerts, contests and musical festivals is required.

0832-A (Sem 1) VIVACE (High School Mixed Ensemble)

0832-B (Sem 2) VIVACE (High School Mixed Ensemble)

1 semester or full year 1 Credit each semester - 2 Credits total Elective 9-12

This performing ensemble is designed for the High School vocal student. Students will develop advanced performance skills through performance practice and by incorporating a range of musical concepts, musical styles, and choral elements. This

choral group will perform several concerts throughout the year including area music festivals and contests. Attendance at all performances is required.

0833-A (Sem 1) HONORS VIVACE (HS Mixed Ensemble)

0833-B (Sem 2) HONORS VIVACE (HS Mixed Ensemble)

1 semester or full year 1 Credit each semester -

2 Credits total Elective 11-12 Teacher's signature required

Motivated and capable junior and senior Choral Music students may register for this course pending teacher approval. Students will collaborate with the instructor to develop vocal technique and a leadership role in the choir. This performing ensemble is open to students in grades 11-12 and stresses the fundamentals of music literacy and development. Rehearsals and sectionals stress the development of sound, technique and proficiency, as well as core musical concepts relative to large ensemble performance. Teacher signature required to take the honors portion of this class.

0828-A (Sem 1) CONCERT BAND

0828-B (Sem 2) CONCERT BAND

1 semester or full year 1 Credit each semester -

2 Credits total Elective 9-10

This ensemble performs medium to advanced works. Musical concepts will be discussed as presented in the many different styles of music performed. No audition is required. The Concert Band performs several concerts throughout the year. Attendance at all performances is a requirement of the course and most performances happen outside the school day. Students enrolled in this course will be part of the Hill-Murray Marching Band and Pep Band. Marching and Pep Band rehearsals will take place during the class period. Prior playing experience is not necessary and we accept beginners.

0836-A (Sem 1) SYMPHONIC BAND

0836-B (Sem 2) SYMPHONIC BAND

Full year, 1 Credit each semester - 2 Credits total
Elective 11-12

This ensemble performs advanced to college level works. Advanced musical concepts will be discussed in relation to the many different styles of music performed. The Symphonic Band performs several concerts throughout the year, including area music festivals and competitions. Most performances happen outside the school day. Attendance at all performances is required. Students approved for this ensemble will be part of the Hill-Murray Marching Band and Pep Band. Marching and Pep Band rehearsals will take place during the class period.

0837-A (Sem 1) HONORS SYMPHONIC BAND

0837-B (Sem 2) HONORS SYMPHONIC BAND

Full year, 1 Credit each semester - 2 Credits total
Elective 11-12 ONLY.

Teacher's signature required

Motivated and capable junior and senior students may register for this course pending teacher approval. Students will complete

COURSE DESCRIPTIONS

the advanced Symphonic Band coursework and will be expected to work on musical analysis in their required private lessons, complete a research project related to their chosen piece and complete a judged performance of advanced and contest-quality solo literature. Second semester, students will be expected to participate in the Solo/Ensemble Contest. Students will also provide mentoring sessions and a leadership role for Hill-Murray middle school band students. A course timeline and further details are available from a Hill-Murray band teacher.

0838 AP MUSIC THEORY

1 Semester, 1 Credit Elective 11-12 ONLY

Teacher's signature required

Prerequisite: Ability to read and understand music at an intermediate level.

This course is designed to develop a student's ability to recognize, understand and describe the materials and processes of music. The course will focus on musical terminology, including hearing and notating pitches, intervals, scales, keys and chords. We will also focus on music organization and patterns. Building on this foundation, the course will progress to include more sophisticated and creative tasks such as: melodic and harmonic dictation, composition of a bass line for a given melody, implying appropriate harmony, realization of a figured bass, realization of a Roman numeral progression, and analysis of repertoire. Students will be offered the opportunity to take the Advanced Placement Examination in Music Theory, offered in May. *A fee is applied if taking the AP exam in May.*

0840-A (Sem 1) ORCHESTRA

0840-B (Sem 2) ORCHESTRA

1 semester or full year 1 Credit each semester -

2 Credits total Elective 9-12

This ensemble performs medium to advanced works. Musical concepts will be discussed as presented in many different styles of music performed. Full group rehearsals are augmented by sectionals, individual assignments as well as periodic written work. All string students in grades 9-12 are accepted; no audition is required. Attendance at all performances is a requirement of the course.

PHY ED / HEALTH

The Physical Education curriculum at Hill-Murray provides all students with the opportunity to develop skills and understanding that will enable them to enjoy and appreciate their physical development. Physical Education has unique opportunities for developing desirable character and social traits as well as defined responsibilities toward the physical development of the individual.

Objectives of the courses are increased strength and endurance, better motor skills and improved health practices, as well as fulfillment of the recreational and social needs of the individual. Emphasis in all classes will be placed on lifetime sports with a focus on learning by doing. A wide

variety of experiences will be provided so that each student is exposed to as many activities as possible.

0019 HEALTH 9

1 Semester, 1 Credit Required for grade 9

This course enables students to explore a variety of topics related to personal and public health in order to develop a better understanding of how hereditary, environmental and behavioral risk factors may affect their overall health and future well-being. Units will include: stress, mental health and mental disorders, chemical use and abuse, nutrition and fitness, infectious and non-infectious diseases, disabilities, human sexuality and related topics.

0003 PHYSICAL EDUCATION 9

1 Semester, 1 Credit Required for grade 9

This is the basic Physical Education course for freshmen and is the minimum requirement for all students. The basics of the following life sports will be covered: fitness, tennis, badminton, pickleball, dance, archery, ping pong, rollerskating, plus team sports such as speedball, softball, floor hockey, team handball, volleyball, soccer, lacrosse and basketball. This course emphasizes Cross Training movements and skill development.

0026 FITNESS FOR LIFE

1 Semester, 1 Credit Elective Grade 10-12

This co-educational course is designed to incorporate the newest innovations in fitness. Fitness techniques involving balance, core, flexibility, resistance, yoga, pilates and relaxation will be emphasized through aerobic and anaerobic activities. Improve your physical and mental fitness level with this fitness-based class. One day per week is dedicated to the study of various fitness philosophies as well as self-analysis of the student's own fitness level. Depending on enrollment, this class may run as girls only or boys only.

0032 HEALTH, WELL-BEING, & STRESS MANAGEMENT

1 semester, 1 Credit

Only offered for young women as an elective in grades 11-12

Research indicates that when we improve our well-being, our performance and engagement will increase – even as students! This course is designed for junior and senior **young women** who are interested in learning how to shape their own personal health and well-being utilizing a holistic (mind, body, spirit) approach. Students will explore the foundations of health (sleep, physical activity, nutrition, relationships), understand the stress and relaxation response, learn evidence-based tools and strategies to manage stress, cultivate mental and emotional health, and learn a few key ideas from neuroscience. Additionally, students will reflect on their own habits, set goals, and develop a well-being vision. This class requires active participation and is experiential: 1½ days a week will be spent practicing light physical activities such as yoga and walking. Be prepared for self-reflection (technology-free) to enhance self-awareness as students learn new ideas for college and beyond.

COURSE DESCRIPTIONS

0028 ADVANCED PHYSICAL EDUCATION

1 Semester, 1 Credit Elective 11-12

This course is designed as an activity class for juniors and seniors who find Physical Education enjoyable and rewarding. It is designed to meet the needs of the student as an outlet for physical activity through a structured course of activities, primarily in the area of life sports. Students are allowed to take this class multiple times. Depending on enrollment, this class may run as girls only or boys only.

0029-A (Sem 1)

INDIVIDUALIZED WEIGHT TRAINING I, II, III, IV

0029-B (Sem 2)

INDIVIDUALIZED WEIGHT TRAINING I, II, III, IV

1 Semester, 1 Credit Elective 10-12

This course is designed for students who want to progress from beginner status to advanced status in weight training. With the guidance of the instructor, each student will develop an individualized training routine. Students may enter this course with little or no background in weights or enter with extensive training and the desire to work on a more independent basis. Training is individually designed to meet the needs of all students. Fundamental instruction is provided with the ultimate goal of each student developing and implementing a strength program designed to meet his/her specific goals. Students will be exposed to a variety of modern training strategies including the use of heavy ropes, kettlebells and resistance bands. This course is open to both boys and girls and may be taken up to four times.

0016 STANDARD FIRST AID-CPR / ATHLETIC TRAINING

1 Semester, 1 Credit Elective Grade 10-12

This course, open to sophomores, juniors, and seniors, will be divided into two major sections. The first half of the course will involve instruction in basic first aid techniques and performance of cardio-pulmonary resuscitation. Upon successful completion of this section, the students will be certified in adult, infant and child CPR and community first aid. During the second half of the course, students will focus on the role of the athletic trainer in the prevention, treatment, and rehabilitation of athletic injuries, including an introduction to basic anatomy, concentrating on the limbs, back and cardiovascular system. Preventative taping techniques will also be presented. Evaluation will consist of both written and practical exams. This class has a max of 14 students.

THEOLOGY

0102-A (Sem 1) THEOLOGY 9: THE BIBLE

0102-B (Sem 2) THEOLOGY 9: JESUS

Full Year, 1 Credit each semester, 2 Credits total

Required for grade 9

The Bible

The purpose of this course is to give students a general knowledge and appreciation of the Sacred Scriptures. Students will learn how to read the Bible and become familiar with the major sections and themes of Scripture. Through their study of the Bible, students will come to encounter the Living Word of God. In this course, they will learn about the Bible and the people of faith throughout our history, culminating in the person and story of Jesus the Christ.

Jesus

From the inspiration of Sacred Scripture to present day, the mystery of Christ is continually being revealed. The purpose of this course is to introduce the students to Jesus, the Living Word of God, and the progression of the story of Christ. In this course, students will gain a deeper understanding of who Jesus is and who He invites them to be.

0103-A (Sem 1) THEOLOGY 10: PASCHAL MYSTERY

0103-B (Sem 2) THEOLOGY 10: THE CHURCH

Full Year, 1 Credit each semester, 2 Credits total

Required for grade 10

Paschal Mystery

This course continues to explore the ministry and mission of Jesus and challenges students to make choices consistent with Christian discipleship. Sources studied include: Sacred Scripture, early church writings, the documents of Vatican II, and the Catechism of the Catholic Church. Topics include: Jesus the Messiah, salvation history, and the Paschal Mystery.

The Church

This course examines various ways to understand and live out the mission of the Church today. Scripture, traditional scholarly sources, and the works of contemporary theologians will be utilized in this class. Topics include: the marks, morality, and prayer life of the Church.

INTRODUCTION TO CATHOLICISM

Approval required from Guidance Counselor

This course introduces Catholicism to non-Christian students and/or those with limited proficiency with English theological language. Students will learn about the God of the Hebrew and Christian Scriptures, the importance of Jesus and the birth of Christianity, and the lived practice of Catholicism. This course is meant to prepare a student for an understanding of a Catholic school's culture, and of any future religion courses they will take at Hill-Murray

COURSE DESCRIPTIONS

JUNIOR THEOLOGY STUDIES

Juniors are required to take two credits of Theology Studies.

Liturgy and Sacraments for one semester and then can choose between two electives, listed below.

0124 LITURGY AND SACRAMENTS

(*Required for all Juniors)

1 Semester, 1 Credit

This class focuses on introducing students to the Catholic Liturgy and allows students to explore the meaning behind the seven Sacraments. There is an emphasis on Sacramental theology, as well as, discovering the history, principles and effects of the Sacraments as aids to Salvation. Through dialogue, readings, projects and research students will come to understand the communal sense of participation in the Sacraments. Students will also be aware of the Liturgical seasons, roles of the assembly, various ministries, development of worship and different types of prayer found within the Catholic Church.

0120 ECUMENISM AND WORLD RELIGIONS

1 Semester, 1 Credit

The course will cover similarities and differences between Eastern Orthodox, Protestant, and Evangelical Churches with the Catholic Church. The Catholic approach to ecumenism and the accomplishments of modern ecumenical dialogue will be examined. The course will also focus on interreligious dialogue between the Catholic Church with Native American, Jewish, Muslim, and Buddhist beliefs.

0122 SPIRITUAL AWAKENING

1 Semester, 1 Credit

The goal of this class is to invite students to explore what it means to engage in their faith so as to make a difference in their lives, as well as the lives of their community. We will intensely explore the topics of happiness, spiritual development and pain/suffering. This is a practical class with many applications that students can put into practice immediately if they so choose. Students should come with a willingness to look at their lives, their values, their choices and especially their spiritual development.

SENIOR THEOLOGY STUDIES

Seniors are required to take two credits of Theology Studies.

Personal Ethics and Justice for one semester and then can choose between three electives, listed below.

0114 PERSONAL ETHICS & SOCIAL JUSTICE

(*Required for all Seniors)

1 Semester, 1 Credit

This course explores what it means to be a Christian in the world today living as a disciple of Christ. Personal ethics and social justice will be studied in the light of the primacy of personal conscience and Catholic Social Teachings. Students will examine moral development and study moral concepts in the Catholic tradition. Students will also investigate significant contemporary justice issues through social analysis. Topics include: protecting human life, promoting economic justice, pursuing peace, and caring for creation.

0104 CHURCH HISTORY

1 Semester, 1 Credit

This class will focus on how the Holy Spirit has guided the Church from Jesus to today. We will explore the formation of the early Church and the martyrs, the Roman Empire, Crusades, Renaissance and Reformation, Vatican II, and the modern Church. We will look at challenges facing the Church in a post-modernism world and will explore historical ethical issues such as Just War Theory

0110 HONORS INTRODUCTION TO THEOLOGY

1 Semester, 1 Credit, opt. PACC through St. Mary's

University Prerequisites: Minimum GPA of 3.0;

recommendation of your English instructor in junior year;

permission of Introduction to Theology instructor.

Open to grade 12 only.

This course is an honors level senior elective that provides an overview of the fundamental theological themes covered in an undergraduate college-level introduction to theology course. Students who take this course at Hill-Murray may also be eligible for 3 college credits through the Program for Advanced College Credit (PACC) TH260: Foundations in Catholic Theology sponsored by Saint Mary's University of Minnesota.

0112 CHRISTIAN SERVICE LEARNING

1 Semester, 1 Credit

Prerequisite: permission of CSL instructor

This course focuses on the value of community service and Servant Leadership. Students are able to recognize the impact service has on their Christian faith. Students are guided through a process to discern their gifts and talents and are provided placement in the community to offer service. (local elementary schools and elderly care centers) Each student will be given a service placement where they are required to do 45 minutes of service while at their specific site. This course meets over the lunch hour and students serve at their placement three to four times a week. Students will have days in which they will meet with their whole class; reflecting upon their service experiences and sharing their experiences. Students are responsible in finding transportation to their site each day.

COURSE DESCRIPTIONS

SCIENCE

0504-A (Sem 1) PHYSICAL SCIENCE

0504-B (Sem 2) PHYSICAL SCIENCE

Full Year, 1 Credit each semester - 2 Credits total

Required for grade 9

Using laboratory demonstrations and experiments, Physical Science focuses on the scientific method, measurements, and the basic principles of chemistry and physics. In the chemistry portion of the class, students explore the properties of matter, changing states of matter, solutions, mixtures, elements, atomic structure, and the periodic table. In the physics portion of the class, students study forces and motion, machines, waves, sound, electricity, and magnetism. Both sections integrate the use of technology, engineering principles, and mathematics. ***If you have successfully completed a thorough Physical Science course at your current school, a test out opportunity is available. Please contact the science department chair for further information.*

0506-A (Sem 1) BIOLOGY

0506-B (Sem 2) BIOLOGY

Full Year, 1 Credit each semester - 2 Credits total

Required for grade 10

This full-year course introduces students to a wide variety of biological sciences. The focus of the course is to convey the meaning, scope, and excitement of biology and to discuss how it relates to the student's life and interests. Topics include: scientific method, ecology, chemistry of life, cell anatomy and physiology, cell division, genetics, DNA, protein synthesis, evolution and animal systems.

Students will gain information through discussions, laboratories, lectures, textbooks, readings, videos, computer programs, projects, and dissections.

0508-A (Sem 1) HONORS BIOLOGY

0508-B (Sem 2) HONORS BIOLOGY

Full Year, 1 Credit each semester - 2 Credits total Elective 10

Prerequisites: A- or better in all four quarters of Physical Science and recommendation by Science Department (Final selection/registration will be completed in early June)

Honors Biology is a course designed for students who have high ability and interest in the sciences. Emphasis is placed on initiative and self-motivation as branches of biology are explored through laboratories, discussions, and projects. Special projects include: researching and presenting environmental issues, building a cell model and DNA model, writing a paper on a fetal pig dissection, discussing current science events and bioethical issues, drawing and analyzing family pedigrees and performing comparative anatomy/physiology dissections.

0510-A (Sem 1) ADVANCED ANATOMY & PHYSIOLOGY

0510-B (Sem 2) ADVANCED ANATOMY & PHYSIOLOGY

Full Year, 1 Credit each semester - 2 Credits total

Elective 11-12

Prerequisites: C- or better in both semesters of current science class(es) and recommendation by Science Department (Final selection/registration will be completed in early June)

Advanced Anatomy and Physiology is a course designed for students who have an interest in exploring, in-depth, the structure and function of the human body. Conception, development, and the 12 body systems will be explored through laboratories, discussion, lecture, videos, and computer research. Special projects include: hands-on experimenting, evaluating current technology and its impact, incubating and examining developing chick embryos, and integrating the human systems through dissections.

0509-A (Sem 1) CIS / HONORS ANATOMY & PHYSIOLOGY

0509-B (Sem 2) CIS / HONORS ANATOMY & PHYSIOLOGY

Full Year, 1 Credit each semester - 2 Credits total

Elective 11-12 Prerequisites: Recommendation by Science Department and meets the CIS criteria of successfully completing a rigorous chemistry course ("B" or better both semesters in Honors Chemistry or "B+" or better both semesters in Chemistry) (Final selection/registration will be completed in early June)

BIOL 1015 Human Physiology, Technology, and Medical Devices is a freshman-level life-science course that is organized around the core principles of human physiology. This course consists of a classroom component in which students will participate in learning activities, discussion, quizzes, and tests, and a laboratory component where students will conduct investigations, conduct research, and participate in dissections and hands-on activities. Pair and group work, discussion, analytical thinking, and writing are important components of the course. BIOL 1015 surveys the main organ systems of the human body, placing some emphasis on their relationships to normal and abnormal health. Students will learn to identify and locate many anatomical structures and understand how each functions, individually and in cooperation with others, to maintain homeostasis within the human body. Students will learn how medical technologies have transformed medical culture by allowing healthcare professionals to "see inside the box" and thus better comprehend health, disease, and treatments. Upon completion (and registration at the U of MN) the student will receive 4 semester college credits from the U of MN-Twin Cities. *A tuition fee will be charged for the U of M credits.*

BIOL 1015 Human Physiology, Technology, and Medical Devices is a freshman-level life-science course that is organized around the core principles of human physiology. This course consists of a classroom component in which students will participate in learning activities, discussion, quizzes, and tests, and a laboratory component where students will conduct investigations, conduct research, and participate in dissections and hands-on activities. Pair and group work, discussion, analytical thinking, and writing are important components of the course. BIOL 1015 surveys the main organ systems of the human body, placing some emphasis on their relationships to normal and abnormal health. Students will learn to identify and locate many anatomical structures and understand how each functions, individually and in cooperation with others, to maintain homeostasis within the human body. Students will learn how medical technologies have transformed medical culture by allowing healthcare professionals to "see inside the box" and thus better comprehend health, disease, and treatments. Upon completion (and registration at the U of MN) the student will receive 4 semester college credits from the U of MN-Twin Cities. *A tuition fee will be charged for the U of M credits.*

COURSE DESCRIPTIONS

0512-A (Sem 1) CHEMISTRY

0512-B (Sem 2) CHEMISTRY

Full Year, 1 Credit each semester - 2 Credits total

Elective 11-12

Prerequisites: C- or better in both semesters of current science class(es) or C- or better in both semesters of Algebra II, recommendation by Science Department, and enrollment in or completion of Algebra II (Final selection/registration will be completed in early-June)

Chemistry is a college preparatory course that provides a solid foundation in the study of matter and its changes. It includes topics in the structure of matter, atomic theory, chemical bonding and behavior, chemical reactions, stoichiometry, calorimetry, phases and phase changes, solutions and equilibrium, and acids and bases. Hands-on activities are used to introduce and/or clarify topics. Laboratory techniques are used to obtain, organize, and analyze data that are used to help demonstrate chemical principles. Conclusions are developed using both qualitative and quantitative procedures. Good math skills are important.

0514-A (Sem 1) HONORS CHEMISTRY

0514-B (Sem 2) HONORS CHEMISTRY

Full Year, 1 Credit each semester - 2 Credits total Elective 11-12

Prerequisites: B or better in Honors Biology (both semesters) or A in Biology (both semesters), recommendation by Science Department, and enrollment in or completion of Advanced Algebra II or Honors Math 3 (Final selection/registration will be completed in early-June)

Honors Chemistry is a course designed for motivated students who have high ability and interest in the sciences. This college preparatory course provides a solid foundation in the study of matter and its changes. Honors Chemistry includes the following topics: elements, periodic table, chemical bonding, math for chemistry, phases of matter, the mole, chemical reactions, thermodynamics, kinetics and equilibrium, solutions, acids and bases, and electrochemistry. Honors Chemistry covers more topics in greater depth than Chemistry, resulting in a more rigorous and challenging course. Strong algebraic math skills are important. Students in Honors Chemistry are expected to pre-read the textbook outside of class and commitment to the established course syllabus is essential so that class time can be used for discussion of topics, problem sets, receiving individual help, and experimenting in the laboratory.

0518-A (Sem 1) PHYSICS

0518-B (Sem 2) PHYSICS

Full Year, 1 Credit each semester - 2 Credits total

Elective 11-12

Prerequisites: C- or better in both semesters of current science class(es), recommendation by Science Department, and completion of Algebra 2 (Final selection/registration will be completed in early June)

In this full year course, students explore concepts of physics using a qualitative and quantitative approach. Emphasis is placed on laboratory investigations that relate physics to everyday life and problem solving. Topics include: kinematics and dynamics of motion, electricity, magnetism, waves and light. This course is designed for any student interested in science who has completed the basics of trigonometry.

0520-A (Sem 1) CIS / HONORS PHYSICS

0520-B (Sem 2) CIS / HONORS PHYSICS

Full Year, 1 Credit each semester - 2 Credits total

Elective 11-12 Prerequisites: Recommendation of math and science teachers and completion of Advanced Algebra 2 or Honors Math 3; CIS requires that the student be in the top 20% approximately. (Final selection/registration will be completed in early-June)

This full year college course, Physics 1101, follows the U of M curriculum and requirements. Upon completion (and registration at the U of M) the student will receive 4 semester Physics credits from the U of MN. This course is designed for students who have a strong mathematical background including trigonometry. Emphasis is placed on laboratory investigations, problem-solving, and abstract reasoning. CIS Physics 1101 covers Mechanics, which is the kinematics and dynamics of motion. As time allows additional topics may include electricity, magnetism, waves and/or light. This course is designed for students who have a high science interest, and are planning careers in science or engineering. *A tuition fee will be charged for the U of M credits.*

0530-A ENVIRONMENTAL SCIENCE I:

The Science of the Environment

1 Semester, 1 Credit Fall Semester only

Elective 11-12 Prerequisites: C- or better in Biology or Honors Biolog

This semester-long lab-based course is designed to inspire students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. Students will identify and analyze environmental problems both natural and human-made. Lab work will include fieldwork to gather and then interpret water quality and ecosystem data. Fall Semester will emphasize the science of the environment, but each semester course will address and incorporate both science of the environment and human impact on the environment.

COURSE DESCRIPTIONS

0530-B ENVIRONMENTAL SCIENCE II: The Human Impact on the Environment

1 Semester, 1 Credit Spring Semester only
Elective 11-12 Prerequisites: C- or better in Biology or Honors Biology

This semester-long lab-based course is designed to evaluate the risks associated with ecological problems, both natural and human made. Students will synthesize alternative solutions for resolving and/or preventing these issues. Lab work will include collecting and analyzing pollution and population data. Spring Semester will emphasize the human impact on the environment, but each semester course will address and incorporate both science of the environment and human impact on the environment.

0523 ELECTRICITY

1 Semester, 1 Credit Elective, 10-12

In this lab-based course, students will learn and use technical skills to build their own Reprap Prusa Mendel i3 3D printer. These skills will include: analyzing and understanding simple DC circuits, reading meters, soldering, utilizing Ohm's law and reading schematic diagrams. Students will also learn how to tune and maintain their 3D printer, in addition to troubleshooting and solving problems that may arise. Students will also learn basic design skills and techniques using a Computer Assisted Design program. Students will then print a variety of their designs on their own 3D printer. There will be a lab fee of approximately \$150 associated with this course.

0524 BIOTECHNOLOGY

1 Semester, 1 Credit Elective 11-12

Prerequisites: C- or better in both semesters of current science class(es) and recommendation by Science Department (Final selection/registration will be completed in early June)

Biotechnology is the use of biological processes to solve problems and improve our quality of life. Students will explore, first hand, examples from history of biotechnology including: the fermentation of various foods and beverages such as: root beer, cheese, yogurt, and sauerkraut. The 20th century led to formulating medicine from molds and plants, selective breeding, and genetically engineered bacteria/fungi, plants, animals, designer vaccines, and human gene therapy, encompassing a rapidly growing field which will continue to impact our lives. This course will introduce various techniques used in biotechnology including: micro pipetting, DNA extraction, electrophoresis, DNA fingerprinting, PCR, culturing bacteria, and testing antibiotics. Additionally, the moral and ethical issues of certain genetic engineering practices will be discussed.

SERVICE LEARNING/PEER PROGRAMS/STUDY HALLS

0997-A (Sem 1) TEACHER AIDE

0997-B (Sem 2) TEACHER AIDE

1 semester or full year, No Credit Elective 11-12

Prerequisites: Signature of Instructor and Counselor Current semester GPA of 2.0

By special arrangement with individual teachers and counselors, students may serve as a teacher aide. The student will assist the teacher in a variety of tasks, depending on the needs of the teacher/department. Grading for this course will be on a Pass/Fail basis (and will not be figured into the GPA) with criteria agreed upon in advance by the instructor and teacher aide. Students may register to be a Teacher Aide both semesters. However, this course DOES NOT fulfill the minimum 12 semester credits that students must register for each year nor count toward the 48 required credits for graduation. Therefore, students may NOT be a Teacher Aide and have a study hall in the same semester.

0959 SERVICE CREDIT - Grade 9

0950 SERVICE CREDIT - Grade 10

0951 SERVICE CREDIT - Grade 11

0952 SERVICE CREDIT - Grade 12

Required grades 9-12

As a Catholic Benedictine school, Hill-Murray School's approach to community service and social justice is grounded in the mission and ministry of Jesus Christ and Church teaching. As a graduation requirement, all students in grades 9-12 must complete a Service Credit during each of their four years at Hill-Murray. Students earn a passing grade for the service credit by completing two Service Experiences (with one serving the poor and vulnerable) during the school year or during the previous summer. Service Experiences must be a minimum of one hour in length, not directed at a family member or relative, non-partisan, non-compensated, not for class credit, and done outside the school day. A written Service Form documenting the Service Experience must be turned in to Campus Ministry the quarter in which the service is completed. The credit DOES NOT fulfill the minimum 12 semester credits that students must register for each year. The credit will be graded Pass/Fail and will not be figured into the GPA.

COURSE DESCRIPTIONS

0998 PEER TUTORING / PEER LISTENING

Full Year, No Credit Elective 11-12

Prerequisites: Application and signature of instructor

Students who want to be of service in the areas of Peer Tutoring or Peer Listening will meet with an instructor to arrange independent work with peers in these areas. Initiation into peer helping/service learning and ongoing evaluation will be part of this course. The course focuses on communication, leadership and study skills. If giving service or a career in a helping profession is of interest, this course is for you. The course will be graded on a Pass/Fail basis and will not be figured into the GPA. The credit DOES NOT fulfill the minimum 12 semester credits that students must register for each year. The credit will be graded Pass/Fail and will not be figured into the GPA.

0887-A (Sem 1) STUDY HALL Grades 9/10

0887-B (Sem 2) STUDY HALL Grades 9/10

0890-A (Sem 1) STUDY HALL Grades 11/12

0890-B (Sem 2) STUDY HALL Grades 11/12

1 Semester or Full Year, No Credit

Study Hall provides students the opportunity to use the Library/Media Center and Peer Tutoring service. It also allows for in-school time to meet with teachers, counselors and other activity advisors. Study Hall may be taken every semester of every year in grades 9-12, without impacting the 48 credit graduation requirement. Students are encouraged to take Study Hall if they want it, need it, and will make good use of the time.

SOCIAL STUDIES

0406-A (Sem 1) WORLD HISTORY

0406-B (Sem 2) WORLD HISTORY

Full Year, 1 Credit each semester - 2 Credits total

Required for Grade 10

This course is a survey of major civilizations from the earliest times through the present day. Considerable emphasis is placed upon recognition of cultural, religious, economic and political interaction and change. Course requirements include short papers, presentations and a research project.

0417-A (Sem 1) HONORS WORLD HISTORY

0417-B (Sem 2) HONORS WORLD HISTORY

Full Year, 1 Credit each semester - 2 Credits total

Elective 10 (fulfills requirement of World History) Acceptance into Honors World History will be based off of the student's previous academic performance, with an emphasis on performance in English and Religion.

This course is a survey of major civilizations from the earliest times through the present day. Utilizing an advanced text, students will discern social, religious, political, and economic trends through the study of geography, people, societal structure, institutions and events. Students will also develop disciplined

reading, note-taking and writing skills. Several papers and presentations will be required throughout the year as well as a major individual research project.

0408-A (Sem 1) UNITED STATES HISTORY

0408-B (Sem 2) UNITED STATES HISTORY

Full Year, 1 Credit each semester - 2 Credits total

Required for Grade 11

This course surveys the development of the United States from the beginning of the American Revolution to the present time. Historical events will be examined within a political, cultural, economic and social framework. Students will explore primary and secondary sources to discover the United States' past and how it relates to the present. Students will gain the knowledge to become more active participants in the affairs of their country.

0410-A (Sem 1) CIS / U.S. HISTORY: AUTHORITY & REBELLION IN AMERICA TO 1865

0410-B (Sem 2) CIS GLOBAL AMERICA: FROM 1865 TO PRESENT

Full Year, 1 Credit each semester - 2 Credits total

Acceptance into this course requires the recommendation of the student's 10th grade History teacher in accordance with University of Minnesota policies.

The course is a survey of social and political history in America from the prehistoric era, to the Civil War era (ca. 1865), and from Reconstruction to the modern era. Students will examine how conceptions of freedom, liberty, and democracy have changed over time. To do so, students will take up research in primary and secondary sources; through class discussion and writing, students will analyze primary sources for value and meaning, and examine interpretation. Students who take this course are expected to be concurrently enrolled in the University of Minnesota's 3-credit HIST 1307 and 1308 courses. A tuition fee will be charged for the U of M credits.

0414-A (Sem 1) GOVERNMENT & ECONOMICS

0414-B (Sem 2) GOVERNMENT & ECONOMICS

Full Year, 1 Credit each semester - 2 Credits total

Required for Grade 12

This senior-level course is composed of one semester of government and one semester of economics. In the first semester, students will study political theory focusing on the American republican form of government. The class will include a survey of government institutions, processes and policies, and specific emphasis will be placed on the Constitution and the three branches of government. The second semester will introduce students to the fundamental principles of microeconomics and macroeconomics. Students will study the operations of the free market, the roles of business and labor and the financial markets. Students will examine the national economy and the impact of government policies on it.

COURSE DESCRIPTIONS

0416-A (Sem 1) CIS POLITICAL SCIENCE

0416-B (Sem 2) HONORS ECONOMICS

Full Year, 1 Credit each semester - 2 Credits total for Hill-Murray; 4 Credits for University of Minnesota for 1st semester. Acceptance into this course requires the recommendation of the student's 11th grade U.S. History teacher in accordance with University of Minnesota policies. American Democracy in a Changing World is an introduction to politics and government in the United States, covered during the first semester. There is an emphasis on Constitutional origins and development, policymaking institutions, linkage institutions, and political socialization. Within the course, students will examine various ways of explaining politics and the nature of political science, with a focus on recent trends. Students who take this course are expected to be concurrently enrolled in the University of Minnesota's 4-credit POL 1001 course. The second semester will introduce students to the fundamental principles of microeconomics and macroeconomics. Students will study the operations of the free market, and the roles of business and labor and the financial markets. Students will examine the national economy and the impact of government policies on it. A tuition fee will be charged for the U of M credits.

SOCIAL STUDIES ELECTIVES

0411 HUMAN BEHAVIOR

1 Semester, 1 Credit
Elective 11-12
This Psychology course focuses on the behavior of human beings. Topics will include human development, personality theories, psychological disorders, and social psychology- including prejudice, criminal behavior, and forgiveness. Course evaluations include tests, short papers, and hands-on projects including caring for a computerized infant. This course combined with Psychology prepares a student to take the AP Psychology test.

0412 PSYCHOLOGY

1 Semester, 1 Credit
Elective 11-12
This course is an introduction to the study of Psychology. Units include Psychology's roots, biology of mind and consciousness, sensation and perception, and memory and learning. Evaluations include experiments, projects, class participation, papers and testing. This course combined with Human Behavior prepares a student to take the AP Psychology test.

0413 GLOBAL CONFLICTS

1 Semester, 1 Credit
Elective 11-12
Global Conflicts is an elective course that will survey global conflicts in which the United States has played a role since the end of World War I. The class will seek to provide students with an understanding of current international conflicts by better understanding the historical, military, and political-economic

context of the key actors and issues. Students should expect to not only broaden their knowledge base of historical and current conflicts, but also their ability to think critically about decision-making, conflict and conflict resolution.

0415 INTRODUCTION TO SOCIOLOGY

1 Semester, 1 Credit Elective 9-10
Introduction to Sociology is an elective course open to 9th and 10th grade students. Students in this course will examine historical and contemporary theories about the formation of societies, how people and groups influence those societies, and how they influence individuals in return. Students will develop an understanding of, and appreciation for, the distinctive groups that form our modern American society. This course requires students to develop their own study of a theory from the course by conducting their own research, analyzing the results, and presenting their findings.

0418 WORLD GEOGRAPHY

1 Semester, 1 Credit Elective 9-12
This course is an introduction to geography and the study of people, places and the environment from a physical and cultural perspective. Spatial and environmental views of the world will be used to examine the influence that geography has had on the past and continues to have today with special attention to major cultural and economic centers, political units and important physical features. This course includes hands-on activities, environmental labs and group work (large and small) with significant emphasis placed on class participation.

TECHNOLOGY & ENGINEERING

0523 ELECTRICITY

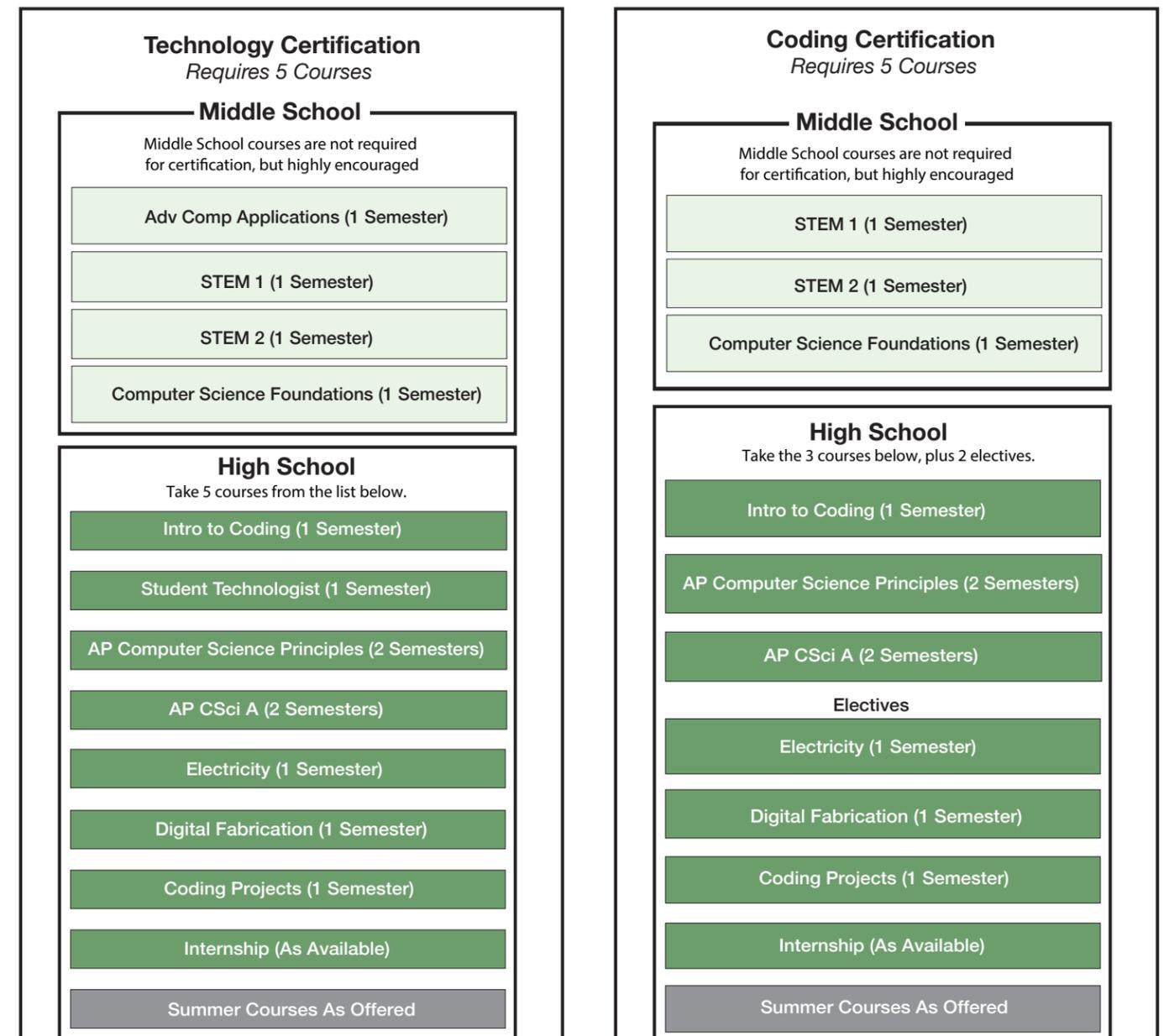
1 Semester, 1 Credit Elective, 10-12
In this lab-based course, students will learn and use technical skills to build their own Reprap Prusa Mendel i3 3D printer. These skills will include analyzing and understanding simple DC circuits, reading meters, soldering, utilizing Ohm's law and reading schematic diagrams. Students will also learn how to tune and maintain their 3D printer, in addition to troubleshooting and solving problems that may arise. Students will also learn basic design skills and techniques using a Computer Assisted Design program. Students will then print a variety of their designs on their own 3D printer. There will be a lab fee of approximately \$150 associated with this course.

TECHNOLOGY PATHWAY

TECHNOLOGY ACADEMY CERTIFICATION PATHWAYS

Hill-Murray School offers two comprehensive Technology Academy Pathways, giving students the opportunity to gain experience with STEM curriculum, computational thinking, 3D printing and design, web development, and coding. Both the Technology Academy Certification and the Technology Academy Coding Certification, offer courses that will introduce students to advanced technology topics and develop their technical skills with industry-standard software. Our Coding Certification Pathway takes it to the next level, and prepares students for AP Computer Science testing (and obtain college credits), and develops student's foundational and advanced coding skills. Completing these pathways will help set students apart from their peers in both college and the workforce at large. See diagram below for required courses to complete the two certification pathways.

Hill-Murray Technology Academy Certification Pathways



COURSE DESCRIPTIONS

0723 STUDENT TECHNOLOGIST

1 Semester, 1 Credit Elective 9-12

During this course, students will learn to become a master of Google Suite, work with peers to provide training opportunities in the Library/Media Center, learn to fix Chromebooks, and add valuable skills to their resume.

0724 INTRODUCTION TO CODING

1 Semester, 1 Credit Elective 9-12

Explore the building blocks of the digital world all around us. Dip a toe in the world of website and mobile application design, and learn why application design and programming are and will continue to be one of the fastest growing job sectors in the world. Learn to program in the world's most popular computer languages. The programming language of the web, JavaScript, will also be part of the curriculum. Students will be exposed to PHP and Python, and recognize how these are used to program sites such as Facebook and YouTube. In addition, students will learn about programming in Ruby and jQuery, and study how these can make sites and applications more interactive.

0726 CODING PROJECTS

1 Semester, 1 Credit Elective 11-12

Requires approval from Ben Gapinski

Use your new coding powers for good! This class gives students the opportunity to create an entire application, start to finish. Student will work with the instructor to select a project that is interesting to them and also will cover all areas of application design. Students will engage in every step of the software development life-cycle (SDLC), from concept to storyboarding and sketching, UX design, wireframing, proposals, construction, testing and review. This class is project based, and includes a lot of work-time in and out of the classroom, and may also include some off site trips to enterprise software companies.

0728-A (SEM 1) AP COMPUTER SCIENCE

0728-B (SEM 2) AP COMPUTER SCIENCE

Full Year, 1 Credit each semester - 2 Credits total

Elective 10-12 *Prerequisite: Successful completion of AP Computer Science Principles or Intro to Coding

AP Computer Science introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data, approaches to processing data, analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design.

0734-A (SEM 1) AP COMPUTER SCIENCE PRINCIPLES

0734-B (SEM 2) AP COMPUTER SCIENCE PRINCIPLES

Full Year, 1 Credit each semester - 2 Credits total

Elective 9-12

AP Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. With a unique focus on creative problem solving and real-world applications, AP Computer Science Principles prepares students for college and career.

0736 DIGITAL FABRICATION

1 Semester, 1 Credit Elective 10-12

In this course, students will learn to use CAD software along with other design tools to work with 3D Printers, Laser Cutters, Vinyl Cutters and CNC routers to create solutions in a project-based learning environment

THEATRE

0843 INTRODUCTION TO THEATRE

1 Semester, 1 Credit Elective 9-10 only

No prerequisite

This course is a basic exposure to the elements of the art of theatre and includes practice in acting through improvisation, imagination, pantomime, exercises, techniques and scenes providing both social and individual development. Students will work in groups toward a creative goal and also gain deeper insight into people by studying characterization in numerous plays.

0844 INTRODUCTION TO THEATRE TECHNOLOGY

1 Semester, 1 Credit Elective 9-12

Step behind the scenes to discover the tools, techniques, and skills required to mount a theatrical production. The class will assist in the production of a Hill-Murray Theatre musical or play, aiding in the construction and finish of the scenic design, as well as the implementation of the lighting design. The course will offer the opportunity to explore technical theatre disciplines such as stage lighting, scenic design and construction, painting techniques, special effects, sound design, production management, and developing and interpreting technical drawings. Students will have the opportunity to operate and utilize modern theatre technology, such as the lighting console, sound board, and cueing software.

0845 ELEMENTS OF ACTING

1 Semester, 1 Credit Elective 11-12 only

Prerequisite: Intro to Theatre

This course is designed for students who desire an in-depth exploration of acting and will be a forum for application of the techniques and skills learned. These skills will be strengthened and applied through observation of and participation in scene and monologue work. Focus will be placed on basic skills and concepts necessary for creative, truthful and believable performances of selected scenes including use of voice and body, imagination, relaxation, sense and emotion memory and script analysis.

WORLD LANGUAGES

Note: Please refer to page three (College Preparation) regarding World Language recommendations. Students who are new to Hill-Murray will automatically be registered for Level 1 of Spanish or French. Students who feel ready to take a higher level of French should contact the French Department directly for placement. Students who feel ready to take a higher level of Spanish must register for, and take, the Spanish Placement Evaluation to determine whether they do indeed have the necessary foundation in Spanish grammar. Students who qualify for an upper level language class may take it, provided their schedule permits.

0608-A (Sem 1) FRENCH I

0608-B (Sem 2) FRENCH I

Full Year, 1 Credit each semester - 2 Credits total

Elective 9-12

This course is an introduction to the French 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.

0610-A (Sem 1) FRENCH II

0610-B (Sem 2) FRENCH II

Full Year, 1 Credit each semester - 2 Credits total

Elective 9-12 Prerequisite: Written approval of French I teacher to continue

The students' abilities to listen, speak, read and write are further developed in a guided and structured manner. Students are continually infusing French culture into their studies, including presentations of cultural research projects.

0612-A (Sem 1) FRENCH III

0612-B (Sem 2) FRENCH III

Full Year, 1 Credit each semester - 2 Credits total

Elective 9-12 Prerequisite: Written approval of French II teacher to continue

Students continue to develop real-life skills in the French language. Listening, reading, writing, speaking and cultural awareness are practiced in the context of thematic units such as living in Paris, transportation and travel, The French African World, and the environment.

0656-A (Sem 1) HONORS FRENCH IV

0656-B (Sem 2) HONORS FRENCH IV

Full Year, 1 Credit each semester - 2 Credits total

Elective 10-12 Prerequisites: Written approval of French III teacher to continue

The subjects covered in this course will provide in-depth practice in all skill areas of the target language: reading, writing, listening, culture, and speaking. At least one research paper will be required each year. Topics may include, but are not limited to: famous people in history, authors, artists, cooking, jobs and careers, the French-speaking world, and the environment. Special emphasis is placed on preparing students for their college placement exams and courses.

0668-A (Sem 1) HONORS FRENCH V

0668-B (Sem 2) HONORS FRENCH V

Full Year, 1 Credit per semester - 2 Credits total

Elective 11-12 Prerequisite: Written approval of French IV teacher to continue

The subjects covered in this course will provide in-depth practice in all skill areas of the target language: reading, writing, listening, speaking, and culture. At least one research paper with an oral presentation will be required. In addition, each student must complete one cultural experience requirement per semester. Special emphasis is placed on preparing students for their college entrance examinations and for college level French courses, as well as for real-life situations using French. Students will be expected to communicate almost exclusively in the target language.

0670-A (Sem 1) HONORS FRENCH VI

0670-B (Sem 2) HONORS FRENCH VI

Full year, 1 Credit per semester - 2 Credits total

Elective 11-12

Prerequisite: Successful completion of Honors French V or approval from teacher.

This course will focus on refined comprehension of the more challenging grammatical concepts of the language. It will emphasize improved pronunciation and speaking skills, as well as reading, writing, and listening comprehension in the language. Special emphasis is placed on preparing students for college entrance or placement exams.

0624-A (Sem 1) SPANISH I

0624-B (Sem 2) SPANISH I

Full Year, 1 Credit each semester - 2 Credits total

Elective 8-12

This course 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 and talking about shopping for food and clothing, pastimes, sports, hobbies and future plans.

CONTACT US

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