



# ST. THOMAS MORE HIGH SCHOOL 2019-2020 Freshman Course Offerings

More of What Matters  
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## ***GRADUATION REQUIREMENTS***

Beginning with the class of 2022, all students graduating from St. Thomas More High School must have a total of 28 Carnegie credits. Below is a general outline of the requirements; specific required courses are indicated in each subject category in this guide.

4.0 Credits – Theology	1.5 Credits – Fitness
4.0 Credits – English	0.5 Credit – Health
3.0 Credits – Mathematics	0.5 Credit – Business and Personal Finance
3.0 Credits – Science	0.5 Credit – Fine Arts
3.0 Credits – History/Social Science	8.0 Credits – Additional Electives

## ***SUGGESTIONS AND TIPS***

- Plan to take four years of math. Although only three credits are required, colleges prefer to see more, and some majors, such as engineering or business, require a foundation in calculus.
- Plan to take four years of science. Careers in the health field and engineering are growing and in demand. A fourth year of lab science will give you a competitive edge. Try to at least get through Physics.
- Take your English classes seriously. College entails an enormous amount of reading and writing, which are skills that will benefit you in any future career.
- Having at least two years of a single foreign language is strongly recommended and is required at some colleges. Not only will these classes set you apart, you may also receive retroactive credits from a strong performance on a language placement test in college.
- Although we require only one semester of fine arts at STM, some colleges like to see one full credit. In addition, fine arts classes help illustrate a holistic program of study. A student's level of creativity is highly valued by admissions counselors.

## ***COLLEGE ADMISSION REQUIREMENTS***

### **University of Wisconsin (UW) System Admission Requirements:**

- 4 English credits: composition, literature and rhetoric.
- 3 mathematics credits: algebra, geometry, and higher mathematics (usually Algebra 2). Statistics does not count at some campuses; any form of calculus is preferred (pre-calculus, calculus, or AP Calculus).
- 3 natural science credits: biology, chemistry and physics.
- 3 social science credits: theoretical study of culture, history, political science, economics, and human behavior and societies
- A minimum of two credits in a single foreign language is required for admission to UW-Madison, and may help meet graduation requirements at other UW System campuses.

Students may access <http://www.uwhelp.wisconsin.edu/> for full admission requirements.

### **Wisconsin's Private Colleges and Universities Admission Requirements:**

- 4 English credits
- 3 mathematics credits (some require 4)
- 3 natural science credits (some require physics)
- 3 social science/history credits (some prefer 4)
- 2 foreign language credits are preferred and may fulfill graduation requirements during college

Students may access <http://www.WisconsinsPrivateColleges.org/> for more details.

***SAMPLE FOUR-YEAR PLANS*****Regular Plan**

Freshman/9		Sophomore/10		Junior/11		Senior/12	
English I	1.0	American Literature	1.0	British Literature	1.0	Literature and Composition	1.0
Integrated Math 1	1.0	Integrated Math 2	1.0	Integrated Math 3	1.0	Pre-Calculus	1.0
Biology	1.0	Integrated Lab Sciences	1.0	Chemistry	1.0	Physics	1.0
World History	1.0	U.S. History	1.0	Social Science	0.5	Government	0.5
Scripture & Interpretation	1.0	Church History & Tradition	1.0	Morality	1.0	Theology	1.0
Fitness	0.5	Health	0.5	Fitness	0.5	Fitness	0.5
World Language	1.0	World Language	1.0	World Language	1.0	World Language	1.0
Fine Art	0.5	Elective	0.5	Bus. & Finance	0.5	Elective	0.5
				Elective	0.5	Elective	0.5
<b>Total Credits</b>	<b>7.0</b>	<b>Total Credits</b>	<b>7.0</b>	<b>Total Credits</b>	<b>7.0</b>	<b>Total Credits</b>	<b>7.0</b>

**Honors/Advanced Placement Plan**

Freshman/9		Sophomore/10		Junior/11		Senior/12	
Honors English	1.0	Honors American Literature	1.0	AP Language and Composition	1.0	AP Literature and Composition	1.0
Integrated Math 1A	1.0	Integrated Math 2A	1.0	Honors Pre-Calculus	1.0	AP Calculus	1.0
Honors Biology	1.0	Honors Chemistry	1.0	AP Physics	1.0	AP Biology	1.0
World History	1.0	U.S. History	1.0	AP U.S. History	1.0	AP Government	1.0
Scripture & Interpretation	1.0	Church History & Tradition	1.0	Morality	1.0	Theology	1.0
Fitness	0.5	Health	0.5	Fitness	0.5	Fitness	0.5
World Language	1.0	World Language	1.0	World Language	1.0	World Language	1.0
Fine Art	0.5	Elective	0.5	Bus. & Finance	0.5	Elective	0.5
<b>Total Credits</b>	<b>7.0</b>	<b>Total Credits</b>	<b>7.0</b>	<b>Total Credits</b>	<b>7.0</b>	<b>Total Credits</b>	<b>7.0</b>

**Project Lead the Way (PLTW) Plan**

Freshman/9		Sophomore/10		Junior/11		Senior/12	
English I	1.0	American Literature	1.0	British Literature	1.0	Literature and Composition	1.0
Integrated Math 1	1.0	Integrated Math 2	1.0	Integrated Math 3	1.0	Pre-Calculus	1.0
Biology	1.0	Chemistry	1.0	Physics	1.0	AP Science	1.0
World History	1.0	U.S. History	1.0	Social Science	0.5	Government	0.5
Scripture & Interpretation	1.0	Church History & Tradition	1.0	Morality	1.0	Theology	1.0
PLTW course	1.0	PLTW course	1.0	PLTW course	1.0	PLTW course	1.0
World Language	1.0	World Language	1.0	World Language	1.0	World Language	1.0
Fine Art	0.5	Fitness	0.5	Fitness	0.5	Fitness	0.5
				Health	0.5	Bus. & Finance	0.5
<b>Total Credits</b>	<b>7.5</b>	<b>Total Credits</b>	<b>7.5</b>	<b>Total Credits</b>	<b>7.5</b>	<b>Total Credits</b>	<b>7.5</b>

*Please note that these are sample plans and can be tailored to fit the interests and needs of each student. Elements from each type of plan can be combined and customized.*

# BIOMEDICAL SCIENCES

## Project Lead The Way (PLTW)

Project Lead the Way's Biomedical Sciences program is a four-year series of courses, designed to bring students closer to possibilities of a medical-based career. The courses are integrated into the student's core curriculum and designed to expand upon but not replace college preparatory math and science courses. This dynamic program uses hands-on, real-world problems to engage and challenge students.

Students interested in math, science, and the human body will find the PLTW® Biomedical Sciences program a great introduction to the numerous medical fields. It will also teach them how the skills they learn are used in the biomedical sciences. Students must maintain a grade of B- or better each quarter in all biomedical courses in order to remain in the program.

Note: Due to the topics and material covered, students who are in Biomedical Sciences for all four years fulfill the Health education requirement for graduation. These students may choose to exempt the Health course.

Students may take a maximum of four weighted course credits per year, including weighted PLTW Biomed courses.

PLTW (Biomedical Sciences) Progression				
Student Type	Year 1	Year 2	Year 3	Year 4
4-year BioMed student	PBS	HBS	MI	BI
3-year BioMed student	PBS	HBS	MI	
2-year BioMed student	HBS	MI		
1-year BioMed student	HBS			

\*Progression dependent on a B- or higher in the previous class. BI requires a B- or higher in PBS, HBS, and MI, department approval, and enrollment in concurrent math and science class.

## 1628/1629 Principles of Biomedical Sciences

Grades 9 & 10 – 1.0 credit (Elective)

Prerequisite:

- Recommendation by Student Services department for A or B level 9th grade science
- For all other students: Grades of B+ or better in all standard or honors level science courses and department approval
- All students must be taking or have taken Biology and enrolled in a math course

Note: This is not a weighted course.

Students explore the concepts of human medicine and are introduced to research processes and to bioinformatics. Hands-on projects enable students to investigate human body systems and various health conditions, including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. Over the length of the course, students work together to determine the factors that led to the death of a fictional person. After pinpointing those factors, the students investigate lifestyle choices and medical treatments that might have prolonged the person's life. The course provides an overview of all the courses in the Biomedical Sciences Program and sets the scientific foundation necessary for student success in the subsequent courses. The key biological concepts embedded in the curriculum include homeostasis, metabolism, inherited traits, feedback systems, and defense against disease. Engineering principles are also appropriately incorporated into the curriculum. These principles include the design process, feedback loops, fluid dynamics, and the relationship of structure to function.

# ENGINEERING

## Project Lead The Way (PLTW)

St. Thomas More High School offers an award winning Engineering program that focuses on engineering with an emphasis in math and science. The four-year program, when combined with college preparatory math and science courses, introduces students to the scope, rigor, and discipline of Engineering and Engineering Technology. PLTW's curriculum makes math and science relevant for students. By engaging in hands-on, real-world projects, students understand how the skills they are learning in the classroom can be applied in everyday life. Students must maintain a grade of C or better each quarter in all engineering courses and a C average in all other courses to remain in the program.



Note: The combination of IED along with CEA and EDD will fulfill the Fine Arts requirement for graduation. Students may take a maximum of four weighted course credits per year, including weighted PLTW Engineering courses.

PLTW (Engineering) Progression				
Student Type	Year 1	Year 2	Year 3	Year 4
4-year Engineering student	IED	CEA	POE# or DE#	EDD* or DE# or POE#
3-year Engineering student	IED	CEA or POE# or DE#	EDD* or POE# or DE# or CEA	
2-year Engineering student	IED	CEA or POE# or DE#		
1-year Engineering student	IED (if Grades 9, 10, or 11) or CEA (if Grade 12)			

\*Grade 12 only #Grades 11 or 12 only

### 1630/1631 Introduction to Engineering Design

Grades 9, 10, or 11 – 1.0 credit (Elective)

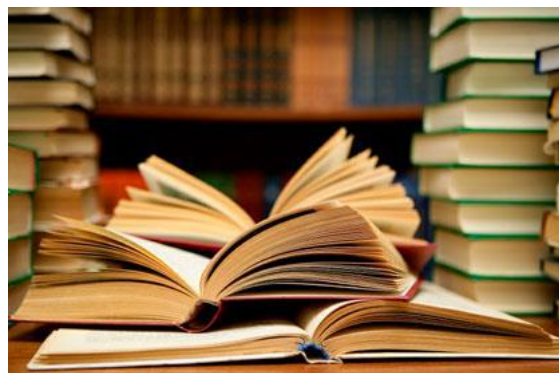
Note: This course is a prerequisite for other PLTW Engineering courses.

Note: This is not a weighted course.

This course emphasizes the development of design. Students are introduced to the engineering design process, applying math, science and engineering standards to identify and design solutions to a variety of real problems. They work both individually and in collaborative teams to develop and document design solutions using engineering notebooks and 3D modeling software. College credit is available upon passing the IED end of course exam.

# ENGLISH

St. Thomas More requires students to take four years of high school English. The goal of the English curriculum is to facilitate the development of basic communication skills: listening, speaking, reading, and writing. Through learning and practicing the basic rules of language, the students develop the skills necessary for communicating accurately and logically. Students advance their knowledge of literary techniques by reading



classical, traditional, and modern selections while simultaneously developing the skills necessary for understanding and appreciating literature. In terms of writing, students refine vocabulary and advance their knowledge of grammar and composition. A four-year study of the writing process enables students to develop writing skills in multiple composition styles such as narrative, descriptive, persuasive, analytical, and expository.

English Progression			
Freshman	Sophomore	Junior	Senior
Honors English 1	Honors American Literature	AP Language & Composition	AP Literature & Composition
English 1	American Literature	British Literature	Advanced Composition*
			Monsters in Literature*
			Literature & Visual Arts*
English Electives			
Speech	Speech Creative Writing	Speech Creative Writing	Speech Creative Writing

\*Seniors not taking AP Literature and Composition need to take a semester of Advanced Composition and either Monsters in Literature or Literature and Visual Arts.

## 1049/1050 Honors English 1: Introduction to Literature & Writing

## 1002/1003 English 1: Introduction to Literature & Writing

Grade 9 – 1.0 credit (Required)

Note: Honors English 1 is not a weighted course.

Freshman English incorporates a balanced approach to literature and rhetoric. This emphasis provides a strong foundation in grammar and usage conventions. Students practice the basic steps of the writing process: identifying a clear and concise topic, using prewriting strategies, developing a coherent claim, drafting, revising and editing, and ending with a polished final draft. The class focuses on descriptive, narrative, informational, and argumentative topics. While learning and honing their writing and grammatical skills, students explore several genres of literature, ranging from poetry, short stories, and novels that cover tragedy, comedy, romance, drama, and suspense. Students comprehend and analyze plot, character, theme, and other literary devices. Additionally, students become comfortable participants in ongoing literary discussions.

**1028 Speech and Rhetoric**

*Grades 9, 10, 11, or 12 – 0.5 credit (Elective)*

Through this course, students learn to organize, research, and select language for effective speech writing. The goal is to acquire the self-confidence and comfort of public speaking while learning how to express ideas and opinions in an organized and convincing manner. Students learn the theory behind various persuasive and informational techniques and practice giving effective presentations in the form of introduction, informative, persuasive, and special occasion speeches. In addition, students learn how to become better listeners during formal and informal presentations and take effective notes while listening.



## FINE ARTS

It is the mission of the Fine Arts Department of St. Thomas More to have an open opportunity for all students to participate in music and/or visual art. We strive to create well-rounded individuals who develop aesthetic and critical thinking skills. Problem solving and decision making in these areas help prepare students to meet the demands necessary at the post-secondary level.

It is our goal that students in Fine Arts courses at STM:

- Actively construct knowledge, rather than passively receive knowledge
- Pursue understanding, not simply memorize and reproduce knowledge
- Engage in developing contextualized meanings, not learn isolated facts
- Develop self-awareness as learners

The ability to think creatively is a valued skill in today's workforce. Unfortunately, there are many in the workforce today who have not had the opportunity to develop this skill. Although some people are naturally more creative than others, the ability to think creatively, and to be creative, is a skill that can be developed. During the process of developing creative thinking skills, students need to learn that it is OK to be wrong and sometimes there is no correct answer. According to education expert, Sir Ken Robinson, if students are not prepared to be wrong, they will never come up with anything original. In the Fine Arts Department, students are encouraged to try out multiple solutions to a given problem. Students are also encouraged to learn the discipline of trying things over and over, making decisions, and building on previously learned skills and knowledge. The Fine Arts Department works hard at developing the whole student, using strategies that develop both sides of the brain.

*Note: The combination of IED along with EDD and CEA will fulfill the 0.5 credit Fine Arts requirement for graduation.*

## VISUAL ARTS

Fine Arts (Visual Arts) Progression			
Freshman	Sophomore	Junior	Senior
Art Fundamentals	Art Fundamentals Drawing & Painting Ceramics Photography Design Art Metals Fibers Yearbook		Art Fundamentals Drawing & Painting Ceramics Photography Design Art Metals Fibers Yearbook AP Studio Art*

*\*AP Studio Art can only be taken after successful completion of Art Fundamentals and at least two other visual art classes. Teacher consent is also needed.*

### 1213 Art Fundamentals

*Grades 9, 10, 11, or 12 – 0.5 credit (Elective)*

This course is a prerequisite for all other art classes, and it fulfills the 0.5 graduation requirement. In this class students will be exposed to numerous art media, terms, and artists preparing them for further art classes. Students will work with two-dimensional and three-dimensional media drawing, painting, and sculpture media. The class is completely hands-on, and terms and techniques will be explored through every assignment. Students will keep a visual journal in class and explore visual problem solving.

## 1214 Drawing and Painting

*Grades 9, 10, 11, or 12 – 0.5 credit (Elective)*

*Prerequisite: Art Fundamentals and consent of instructor. Course may be taken more than once with increasing complexity and depth of assignments.*

In this course students will be exploring a variety of 2-D drawing and painting media. They will use charcoal, pencil, colored pencil, chalk and oil pastel, pen and ink, acrylic, and watercolor paint and also combine some of these media. Students will also learn how to stretch a canvas. Students will work from real life observations as well as work conceptually expressing abstract ideas and emotions. Students will learn correct perspective as well as explore the mark making aspects of drawing and painting. Students will keep a visual journal in class and explore visual problem solving.



## 1215 Ceramics

*Grades 9, 10, 11, or 12 – 0.5 credit (Elective)*

*Prerequisite: Art Fundamentals and consent of instructor. Course may be taken more than once with increasing complexity and depth of assignments.*

Students in this class will explore three-dimensional forms using a clay medium. They will explore a variety of techniques such as pinching, coiling, slab rolling, and wheel throwing. Students will make a variety of projects that are sculptural and functional. All assignments are completely hands on. Students will keep a visual journal in class and explore visual problem solving.

## 1285 Design

*Grades 10, 11, 12 – 0.5 credit (Elective)*

*Prerequisite: Art fundamentals or IED*

Design is the bridge between Art and Engineering, it is creativity and problem solving. In this course we will follow the design process of identifying and solving problems of everyday life. Students will be working in the 2-Dimensional, sketching and planning, and transforming to 3-Dimensional models and representations of their sketches. Students will keep a weekly journal / sketchbook. *\*Engineering students are recommended to take this course prior to EDD.*

## 1223 Fibers

*Grades 9, 10, 11, or 12 – 0.5 credit (Elective)*

*Prerequisite: Art Fundamentals and consent of instructor. Course may be taken more than once with increasing complexity and depth of assignments.*

In this class students will be exploring the textile arts. Students will learn to knit, crochet, paint and dye fabric, make coil baskets, and possibly weave and sew. Students will make functional wearable art as well as non-functional decorative art. Principles and elements of design will be addressed in every assignment. Students will keep a visual journal in class and explore visual problem solving.

## PERFORMING ARTS

Fine Arts (Performing Arts) Progression			
Freshman	Sophomore	Junior	Senior
Band	Band	Band	Band
Chorus	Chorus	Chorus	Chorus
String Ensemble	String Ensemble	String Ensemble	String Ensemble
Introduction to Guitar/Piano	Introduction to Guitar/Piano	Introduction to Guitar/Piano	Introduction to Guitar/Piano
Guitar/Piano	Guitar/Piano	Guitar/Piano	Guitar/Piano
Introduction to Theater	Introduction to Theater	American Popular Music (CE)	American Popular Music (CE)
Acting Studio	Acting Studio	Introduction to Theater	Introduction to Theater
		Acting Studio	Acting Studio

### 1252/1253 Band

*Grades 9, 10, 11, and 12 – 1.0 credit (Elective)*

All students interested in playing a band instrument, beginners as well as those with experience, are encouraged to sign up for this class. Acceptable band instruments include flute, clarinet, saxophone, oboe, bassoon, trumpet, trombone, horn, baritone, tuba, and percussion. STM has a limited number of instruments available, so students may need to rent/lease/purchase their own instrument(s). Knowledge of music fundamentals is emphasized.

Students will experience playing various styles of music. Requirements include playing at home football and basketball games, three concerts, and Wisconsin School Music Association (WSMA) events.



### 1281/1282 Chorus

*Grades 9, 10, 11, and 12 – 1.0 credit (Elective)*

All students who possess a love of singing and a willingness to perform can join this class—no experience is necessary. Emphasis is placed on learning proper singing techniques, including posture and projection, as well as learning the fundamentals of music. Various styles of music will be explored, as well as singing songs in other languages. Requirements include performances outside of class/school day and Wisconsin School Music Association (WSMA) events.

### 1259/1260 String Ensemble

*Grades 9, 10, 11, and 12 – 1.0 credit (Elective)*

All students interested in learning a string instrument or continuing their development on a string instrument (violin, viola, cello, bass) are encouraged to take this class. STM has a limited number of instruments available, so students may need to rent/lease/purchase their own instrument. Individual growth in playing ability and knowledge of music fundamentals is emphasized. Various styles of music will be explored. Requirements may include performances outside of class/school day, lessons, and WSMA events.



## 1286 Introduction to Guitar/Piano

*Grades 9, 10, 11, and 12 – 0.5 credit (Elective)*

Two of the most popular instruments today are the guitar and piano. This course will teach students the fundamentals of music while learning how to play either the guitar or piano. Students will perform a variety of styles of music, learn how to play melody lines, and learn accompaniment figures. No previous experience is necessary. We will provide students with the skills needed for a lifetime of enjoyment. STM has a limited number of instruments available, so students may need to provide their own guitar. Students will be expected to perform during in-class recitals.

## 1287 Guitar/Piano

*Grades 9, 10, 11, and 12 – 0.5 – 1.0 credit (Elective)*

*Prerequisite: open to students after successful completion of Introduction to Guitar and Piano and consent of instructor.*

*Note: This class can be taken multiple times.*

Learning how to play the guitar or piano well, can offer a lifetime of enjoyment. Guitar/Piano is for those students who wish to continue learning how to play the guitar or the piano. Students will continue developing their knowledge and technique, that they began in Introduction to Guitar/Piano, as they learn a variety of music. For the most part, students can work at their own pace, and after several semesters of experience, students also have more independence in choosing repertoire to work on. To succeed in this class, students need to have the discipline to work well independently. Students will be expected to participate in in-class recitals, out-of-class recitals, and advanced students may be required to participate in Solo and Ensemble Festival.

## 1250 Introduction to Theater

*Grades 9, 10, 11, or 12 – 0.5 credit (Elective)*

Partnering with First Stage theater company, this course will offer students of all theatrical backgrounds and skills an overview of theater history, script-reading and analysis, stagecraft (set-building, light and sound operation), acting and improvisation, and theater etiquette. Course will include video and performance presentations of various theatrical styles. Requirements include attendance at campus productions and outside theatrical performances.

## 1251 Acting Studio

*Grades 9, 10, 11, or 12 – 0.5 credit (Elective)*

*Prerequisite: open to students after Introduction to Theater.*

Partnering with First Stage theater company, this course offers students the basics of stage performing through script reading, improvisation techniques, stage movement, theater games, monologues, speechmaking, playwriting, and directing. Requirements include attendance at campus productions and outside theatrical performances.



# FITNESS AND HEALTH

The Fitness and Health Department offers a variety of courses that emphasize the development of a fitness lifestyle, lifetime leisure activities, team and individual sports, and skill improvement to allow students to appreciate this part of the academic spectrum.

STM will waive a 0.5 credit of Fitness at a student's junior or senior year when one of the following requirements is met:

- A student has a minimum of one **completed** season per year of a WIAA sanctioned sport and for a minimum of three years.
- A student has **completed** three years as a member of the Pompon squad.
- A student has attended the after-school Strength, Speed and Agility Program (80% attendance rate) with a minimum of one **completed** season per year and for a minimum of three years.

STM will require students to meet the 1.5 Fitness credits over three years if they are not eligible in applying the 0.5 credit waiver policy. STM will also maintain the 0.5 credit requirement in Health during a student's 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, or 12<sup>th</sup> grade. However, due to the topics and material covered, students who are in the PLTW Biomedical Science Program for all four years fulfill the Health education requirement for graduation. These students may choose to exempt the Health course.

Fitness and Health Progression			
Freshman	Sophomore	Junior	Senior
Team Sports & Fitness	Team Sports & Fitness	Lifetime Sports	Lifetime Sports
Sports Training 1	Sports Training 1	Sports Training 2	Sports Training 2
Health	Health	Fitness for Life	Fitness for Life
		Health	Health
			Fitness Intern

## 1512 Team Sports and Fitness

*Grade 9 or 10 – 0.5 credit*

*Students must take this or Sports Training in grade 9 or 10.*

Team Sports and Fitness provides an introduction to a variety of team and individual physical activities designed to promote interpersonal and social development along with cardiovascular fitness, muscular strength, and endurance. Students will experience and develop an appreciation for the skills, as well as the rules and strategies of each activity.

## 1514 Sports Training 1

*Grade 9 or 10 – 0.5 credit*

*Students must take this or Team Sports in grade 9 or 10.*

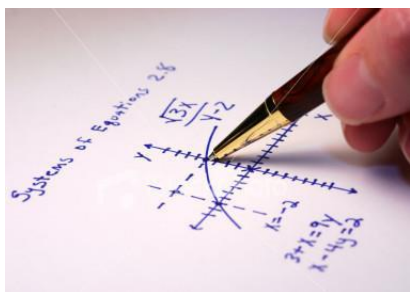
This course provides an individual with the tools and knowledge necessary to be able to train an athlete, including yourself, and improve his, hers, and your athletic ability. Students will use a variety of training techniques including resistance training, plyometric training, energy system development training, top speed training, acceleration training, agility training, flexibility/stability/mobility training, and injury

prevention training. Each student will be expected to participate in the different types of training and learn how/why they are used in order to improve athletic performance. This is a theory and activity based course dealing with strength training activities and program planning for students, athletes, and members of the community. The 6 National Standards for Physical Education and the National Strength and Conditioning Association's (NSCA) *Essentials of Strength Training and Conditioning* will serve as the framework for the content covered in this course. Athletes are highly encouraged to take this course.

## **1505 Health**

*Grades 9, 10, 11, & 12 – 0.5 credit (Required)*

The purpose of this course is to provide students with the tools and knowledge necessary to live a healthy lifestyle and be advocates for a healthy lifestyle. Students will analyze, discuss, and learn about adolescent health issues with the end goal of demonstrating healthy behaviors both now and into the future. The curriculum for this class will be driven by the 8 National Health Standards. Certification in American Red Cross Standard First Aid/CPR is a part of this class.



# MATHEMATICS

In today's competitive world of business, technology and science, a solid mathematics foundation is essential. In order to prepare students for the demands of the ACT, a post-secondary education and work environment, a sound mathematics program should assist students in growing problem-solving abilities as well as knowing and understanding mathematical processes, facts and principles. A student's ability to perform computation with understanding, accuracy and efficiency is developed along with mathematical reasoning.

Four Year Math Tracks (Beginning with Class of 2022)				
Level	Freshmen	Sophomore	Junior	Senior
Honors AP Calculus Path	Integrated Math 1A	Integrated Math 2A	Honors Precalculus	AP Calculus, AP Stats or Calculus
B	Integrated Math 1B	Integrated Math 2B	Integrated Math 3B	Precalculus B, or AP Stats
C	Integrated Math 1C	Integrated Math 2C	Integrated Math 3C	Precalculus C
Fundamental	Integrated Math Fundamentals 1	Integrated Math Fundamentals 2	Integrated Math Fundamentals 3	Integrated Math Fundamentals 4

**\*Freshmen Placement:** Placement is determined by the demonstration of math abilities on the spring placement test, overall performance on the admissions test and past math experience.

## 1472/1473 Integrated Math Fundamentals 1: Freshmen Level

## 1474/1475 Integrated Math Fundamentals 2: Sophomore Level

Grade 9 and 10 – 1.0 credit each

This course provides an opportunity for students to experience success with mathematics and to gain confidence in their mathematical ability. Students will experience a rigorous program that will strengthen and enhance basic math skills, weaving the traditional topics of algebra and geometry. Students learn to apply these concepts to real-life situations. Completion of this course prepares students for future math and science courses.

## 1476/1477 Integrated Math 1A

Grade 9 – 1.0 Credit

This course weaves the traditional topics of algebra and geometry with the expanded topic of statistics. With an emphasis on functions, students will study linear functions, statistical modeling, exponential relationships and geometric congruence. At this level students will also study coordinate proof,

polynomial operations and quadratic functions and models. Emphasis is placed on applying these concepts to real life situations. This course will move at a faster pace and cover more topics in one year than the traditional Integrated Math 1 course

### **1478/1479 Integrated Math 1B**

*Grade 9 – 1.0 credit*

This course weaves the traditional topics of algebra and geometry with the expanded topic of statistics. It places emphasis on understanding linear functions, statistical models, exponents and geometric congruence and coordinate proofs. Emphasis is placed on applying these concepts to real life situations.

### **1480/1481 Integrated Math 1C**

*Grade 9 – 1.0 credit*

This course weaves the traditional topics of algebra and geometry along with statistics. It places emphasis on understanding writing and solving equations and inequalities, linear functions, coordinate geometry, systems of equations and exponential relationships. Emphasis is placed on applying these concepts to real life situations.

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# SCIENCE

At St. Thomas More we believe that science is much more than a collection of facts. Our courses are designed to teach science as a process that is used to understand the world around us. Scientific reasoning, problem solving, laboratory activities, and experimentation are essential components of every course. The role of science and technology in society is emphasized throughout the program. In each course the content is related to the everyday experiences of the student. Students are encouraged to develop the knowledge and skills they need to make informed decisions about science-related issues. Science career opportunities are also presented in each course.

Our science program allows students to investigate a wide variety of subjects. The sequence of courses is designed to correspond to the developing skills of the student. Courses are available for students of all ability levels. The program has been designed to meet the needs of all St. Thomas More students.

Science Progression			
Freshman	Sophomore	Junior	Senior
	Honors Chemistry		
Honors Biology	Chemistry B	AP Physics	AP Physics
Biology B	Chemistry C	Physics	AP Biology
Biology C	Integrated Lab Sciences B	Chemistry B	Physics
	Integrated Lab Sciences C	Chemistry C	Earth & Space Science

## 1870/1871 Biology B

## 1872/1873 Biology C

*Grade 9 – 1.0 credit*

This laboratory based class begins with a study of experimental design and safe laboratory practices. Emphasis is placed on developing an appreciation for the diversity of life and an appreciation of science as open-ended inquiry. Content includes the study of the structure and function of microscopic organisms, cells, animals and plants; the genetic continuity of life, including reproduction and evolution; and an introduction to biochemistry and energy transformation through all biological systems. This course fulfills the biology requirement for graduation.



## 1840/1841 Honors Biology

*Grade 9 – 1.0 credit*

*Prerequisite: department approval*

*Note: This is not a weighted course.*

Honors Biology uses a questioning approach to the study of biology at an accelerated pace. Using the method of experimental design, and incorporating safe laboratory practice, students discover biological processes in the same manner as scientists. This is a challenging course designed to prepare students for further work in science. The topics covered include biochemistry, cellular biology, energy transformation, genetics, botany, evolution, taxonomy, and pathogenic diseases. This course fulfills the biology requirement for graduation.

# SOCIAL SCIENCES/HISTORY

The study of history develops an understanding and appreciation of the past. It is hoped that students will gain knowledge, skills, and attitudes that will give them the ability to better understand the world in which they live. A study of history and the social sciences is necessary in order that students develop and take an active role as citizens who are prepared to live in a changing and complex society. The following curriculum provides students with a framework of knowledge relating to the events that shaped humanity, as well as the development of political, economic and social institutions. At the freshman and sophomore level, students will partake in a series of digital Baseline tests. These assessments have been carefully crafted in alignment with the skills and requirements tested by the Advanced Placement and ACT programs. An individual digital portfolio will be compiled for each student. Baseline profiles will continue through sophomore year, and will serve as tangible data for students, parents, teachers, and counselors in their preparation for the AP Program and ACT/SAT tests.

<b>Social Sciences Progression</b>			
Freshman	Sophomore	Junior	Senior
World History	United States History	AP United States History AP Psychology AP Microeconomics	AP Government* AP Psychology AP Microeconomics
<b>Social Science Electives</b>		AP Macroeconomics	AP Macroeconomics
Human Geography	Human Geography	Crime & Justice Modern American Issues Human Geography	Government* Crime & Justice Modern American Issues Human Geography

\*Seniors must either take AP Government or Government to satisfy the state Social Sciences requirement.

## 1902/1903 World History

Grade 9 – 1.0 credit (Required)

World History traces the development of history from the beginning of recorded time through the emergence of contemporary nations. A foundational course understanding emphasizes that individual perspective directly impacts our interpretation of history and the world we live in. A student will gain an understanding of continuity and change within and across eras of time. Through this historical development, students will gain a perspective of our place as Americans in world history and the increasing importance of diverse global connections among societies of the world. Emphasis is placed on higher level thinking skills to prepare students for excellence and success at the collegiate level. Topics taught include the birth of humanity and organized civilization, the rise of organized government and democratic values, religions of the world and their relation to contemporary global issues, cultural exchange through means of warfare, trade and exploration, societal stratification and power struggles, revolution-rebellion and revolt, the world at war, contemporary sociopolitical issues, and globalization as it relates to economic fluidity.

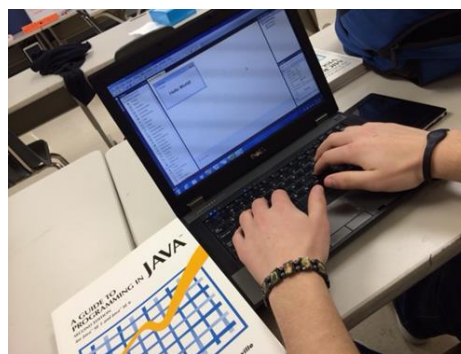
**1919 Human Geography**

*Grades 9, 10, 11, or 12 - 0.5 credit (Elective)*

This course is an introductory study of geography and cultures that examines the interaction of land, people, and climates in each continent. A strong drive to solve problems through participating in group and individual research is expected of students in this course. Additionally, this course will serve as a primer in the systematic study of patterns and processes that have shaped how humans use and alter Earth's surface and resources. Students employ essential methods of map making and interpreting to analyze human social organization, the complex geopolitics of resource-based conflicts, as well as the litany of factors that motivate global migration.

# TECHNOLOGY EDUCATION

Computer/information specialties are one of the fastest growing career fields requiring a two or four-year degree. Yet the gap between the number of college entrants studying this field and the number of job openings in the field is wider than any other high-growth, high-demand career. Students interested in the technology field will gain valuable skills to take into college and career opportunities.



Technology Progression			
Freshman	Sophomore	Junior	Senior
Computer Literacy and Applications	Computer Literacy and Applications	Computer Literacy and Applications	Computer Literacy and Applications
Introduction to Computer Science	Introduction to Computer Science	Introduction to Computer Science	Introduction to Computer Science
Computer Science: Python	Computer Science: Python	Computer Science: Python	Computer Science: Python
		Web Design (CE)	Web Design (CE)

## 1680 Computer Literacy and Applications

*Grades 9, 10, 11, or 12 – 0.5 credit (Elective)*

This class develops student skills and proficiency with Microsoft Office suite of programs, specifically focusing on student mastery with Word and Excel. Mastery level learning will accommodate students' introduction to financial literacy in preparation for the Business and Personal Finance class. Ultimately, this class will validate students' confidence in technology applications useful in school and the workplace.

## 1692 Introduction to Computer Science

*Grades 9, 10, 11, or 12 – 0.5 credit (Elective)*

*Prerequisite: Teacher approval*

Introduction to Programming Concepts is designed to introduce students to the breadth of computer science through Snap! basics in a collaborative and engaging learning environment. In partnership with Microsoft Philanthropies TEALS (Technology Education and Literacy in Schools), the course will develop the computational practices of algorithm development, problem solving, and programming within the context of problems that are relevant to the lives of today's students. As part of this course, students will delve into real world computing problems that are culturally relevant and address social and ethical issues while delivering foundational computer science knowledge to students. It is recommended that students have completed an Algebra course prior to enrolling. No previous computer science experience is required, and students will be prepared for the Python programming course.

**1693 Computer Science: Python**

*Grades 9, 10, 11, or 12 – 0.5 credit (Elective)*

*Prerequisite: Successful completion of Introduction to Programming Concepts*

This second semester course, in partnership with Microsoft Philanthropies TEALS (Technology Education and Literacy in Schools) introduces computer programming using the Python programming language. Python is a versatile, beginner friendly programming language, suitable for projects ranging from small scripts to large systems currently in wide use by business, science, and technology areas. The course includes reviews (Snap Flashback) of elementary features found in the first semester course. Every unit of content culminates in a comprehensive project and about 75% of student time is spent in projects while practicing learned skills. The course completes with students designing, planning and implementing a medium-to-large scale final project of their own choosing. Students successfully completing this course should be able to design, code, test, and debug Python language programs, preparing them for the AP Computer Science A course.

# THEOLOGY

The Theology courses embrace Jesus' command to teach "all that I have commanded" and seek to engage students in the authentic life, teaching, and tradition of the Catholic faith. Each course develops an understanding and appreciation of the richness of Catholic teaching while preparing students to live in society today in a rigorous academic environment. Students are encouraged to contemplate on the traditions of the Catholic Church in relation to other Christian traditions as they grow in their own faith as teenagers and young adults. They will examine theology through the study of the Creeds, sacraments, Scripture, prayer, morality, social justice, the Church, the nature of the human person, and other religious traditions all with a focus on the meaning of the life, passion, death, and resurrection of Jesus Christ.



The Theology Department recognizes that not all St. Thomas More students are from the Catholic tradition and invites every student to reflect through the lens of his/her personal perspective tradition while remaining faithful to the US Catholic Council of Bishop's curricular framework

(<http://www.usccb.org/beliefs-and-teachings/how-we-teach/catechesis/upload/high-school-curriculum-framework.pdf>) and the Archdiocese of Milwaukee High School Theology Curriculum (<https://www.archmil.org/ArchMil/offices/Catechesis/High-School-Theology-Curriculum.pdf>).

**Please note:** The Theology Department of St. Thomas More High School is leading a pilot program within the Archdiocese of Milwaukee to combine and implement both the USCCB Curricular Framework and the Archdiocese of Milwaukee Guidelines for Theology Instruction into a unified sequence. The US Catholic Bishops have six required and five optional sets of course outcomes, designed to fit into one semester courses, while the Archdiocese has five full year course outcomes. The new St. Thomas More curriculum, beginning with the incoming class of 2023 is as follows:

Theology Progression (Class of 2023 and after)			
Freshman	Sophomore	Junior	Senior*
Scripture & Interpretation	Church History & Tradition	Personal Morality & Social Justice	Philosophy World Religions (CE) Christian Bioethics (CE) Special Topics in Scripture or Church History

\*Seniors must take two of the four semester electives to satisfy graduation requirements.

## 1701/1702 Scripture & Interpretation (Class of 2023 and after)

Grade 9 – 1.0 credit (Required)

This course provides students from diverse religious backgrounds an overview of the basics of the use and interpretation of Scripture in an academic, Catholic context. Students will gain insight and practice using different methods of exegesis to learn both about the Bible and its cultural context. Students will explore questions regarding the Canon of texts within the Bible, the nature of Salvation History, the Paschal Mystery, the enduring use of both Old and New Testaments throughout history and in today's world. Students will be introduced to modern academic methods of exegesis, as well as dialogue between

Catholic, Protestant, and Jewish scholars on the interpretation and meaning of Scripture. Students will also research and explore modern discoveries that have shed light on the historical and theological development of Scripture, such as the Dead Sea Scrolls and the Nag Hammadi Library. These themes will be explored in a manner that will enable students to gain an appreciation of the Catholic faith and its relation to other religious traditions, both intellectually and affectively. The foundation of this course is informed by the following Church documents: *Dei Verbum (Dogmatic Constitution on Divine Revelation)*, The Pontifical Biblical Commission's *The Interpretation of the Bible in the Church*, and *Verbum Domini (The Word of the Lord)*.

# WORLD LANGUAGES

The goal of the World Language curriculum is to develop students' understanding and appreciation for the cultural diversity of today's world. Through foreign language study, students learn to communicate with those of another language and culture on basic levels. They come to understand themselves as individuals who are shaped by their culture and language. They are aware of current global events that affect other peoples and countries. These goals are achieved through emphasis in five areas within each language: speaking, listening, reading, writing, and culture. All of these areas correspond to Wisconsin State Curriculum Standards.

The World Language Department offers a four-year curriculum in French. In Spanish, a five-year curriculum is offered, including Advanced Placement classes and special courses designed for native speakers. Each year students are offered opportunities to travel to countries where the target languages are spoken natively. These trips give students the chance to widen and deepen their language skills and cultural appreciation which are attributes they will carry with them for the rest of their lives.

Foreign Language Progression			
Spanish			
Freshman	Sophomore	Junior	Senior
Spanish 1	Spanish 2	Spanish 3	Spanish 4 (CE)
Spanish Experienced Speakers 1	Spanish 3	Spanish 4 (CE)	AP Spanish Language and Culture
	Spanish Experienced Speakers 2	AP Spanish Language & Culture	Spanish and Latin American Culture & Civilization
			Advanced Spanish 5
French			
French 1	French 2	French 3	French 4

## 1351/1352 Spanish 1

*Grades 9, 10, or 11 – 1.0 credit (Elective)*

*Prerequisite: review of entrance test scores and consent of instructor.*

Spanish 1 introduces students to the Spanish language through the instruction of basic grammar and vocabulary. This course highly emphasizes five areas of communication in the target language: speaking, listening, reading, writing, and culture. Basic classroom functions are handled in Spanish from the very start of the course. Beyond that, as much of this class as is appropriate is conducted in Spanish. Students should expect daily homework assignments in order to practice outside of class. While students do not need prior experience in the language in order to succeed in this course, they should expect a rigorous curriculum focused on communication.



**1363/1364 Spanish for Experienced Speakers 1****1365/1366 Spanish for Experienced Speakers 2**

*Grades 9 and 10 – 1.0 credit (Elective)*

*Note: placement is at the discretion of the Spanish Department.*

This is a two-year course designed for the student who hears and speaks Spanish at home but has had little or no formal training in grammar, composition, punctuation, and spelling. Writing, reading, and grammar skills are emphasized. Preparation for work in a bilingual job position is included. The use of historical and literary sources facilitates the development of these skills. Some students are expected to complete both years. After successful completion, they are placed in a Spanish classroom at an appropriate upper level, usually Spanish 3.

**1300/1301 French 1**

*Grades 9, 10, and 11 – 1.0 credit (Elective)*

In French 1 students begin to lay a foundation upon which will be built the necessary elements for becoming fluent in the French language. The first year places a heavy emphasis on the learning of vocabulary and grammatical structure of the language. Vocabulary and grammar are presented in the context of each chapter's theme. French culture, as it relates to each chapter's theme, is also presented. Culture and comprehension skills are further taught through the use of video and audiotapes. Students are required to speak as much French in the classroom as possible. A significant portion of every class will be conducted in French.

