



Curriculum Guide

Upper School
2026-2027



Table of Content

- Curriculum Maps
 - 9th Grade.....3
 - 10th Grade.....5
 - 11th Grade.....8
 - 12th Grade.....12
- English.....16
- Math.....18
- Science.....21
- Social Studies.....23
- World Language.....28
- Religious Studies.....30
- Innovation and Arts.....31
- Leadership/Athletics.....37
- The TMI Pathways Program.....38

9th Grade Course Offerings and Prerequisites 2026-2027

Department	Course Offering	Credit	Prerequisites
English 4.0 credits total, Must be taken each grade	English I CP or	1.0	None
	English I Honors	1.0	95+ in 8th grade English, CTP (or equivalent) English score is "Exceeds", Departmental approval
Math 4.0 credits total, Must be taken each grade. Must include Algebra, Geometry & Algebra II. (8th grade math courses count for prerequisites but not toward credits.)	Algebra I CP or	1.0	None
	Geometry CP or	1.0	Algebra I
	Advanced Topics in Geometry (H) or	1.0	95+ in Algebra 1 CP or 90+ in Algebra 1 Advanced, Departmental Approval
	Algebra II CP or	1.0	Algebra I, Geometry
	Algebra II Honors	1.0	95+ in both Algebra 1 CP and Geometry CP, or 90+ in Algebra 1 Advanced and Advanced Topics in Geometry, Departmental approval
Science 4.0 credits total. Must include Physics, Chemistry & Biology	Experimental Physics CP or	1.0	None
	Advanced Topics in Physics (H)	1.0	90+ in Algebra I, 90+ in 8th grade Science, Departmental approval
	Introduction to Programming (fall)	0.5	Algebra I, Departmental approval
	Functional Programming (spring)	0.5	Introduction to Programming, Departmental approval
Social Studies 4.0 credits total. Must include Global Studies I & II and U.S. History.	Global Studies I CP or	1.0	None
	Global Studies I Honors	1.0	90+ in 8th grade Social Studies, Departmental approval
World Language 3.0 credits or Level 3 or above in the same language.	Latin I	1.0	None
	Latin II	1.0	Latin I
	Spanish I	1.0	None
	Spanish II	1.0	Spanish I
	Spanish II Heritage	1.0	Departmental approval
Religious Studies 1.0 credit total. Must include Philosophy of Human Flourishing	Philosophy of Human Flourishing (fall or spring)	0.5	None
	Introduction to the Bible (fall or spring)	0.5	None
	Religion in Global Context (fall or spring)	0.5	None
Arts & Innovation Fine Arts = 2.0 credits total. Innovation = 0.5 credits total. Must include Innovation, Design & Technology. All other Innovation courses count as electives.	Introduction to Art & Design	1.0	None
	Digital Music Composition	1.0	None
	Symphonic Band I	1.0	None
	Theatre Arts I	1.0	None

Department	Course Offering	Credit	Prerequisites
	Theatre Production I	1.0	None
	Production Technology	1.0	None
	Innovation, Design & Technology (fall or spring)	0.5	None
	Project Management (fall or spring)	0.5	Innovation, Design & Technology
	Fitness Training (fall, spring)	0.5	None
Athletics 1.0 credit total. Can be earned with 1 year of fitness classes or 2 seasons of playing a sport.	Fall Sports: Cheerleading, Cross Country, Football, Volleyball Winter Sports: Basketball, Cheerleading, Soccer, Swimming Spring Sports: Baseball, Golf, Lacrosse, Softball, Tennis, Track & Field		
Electives 3.0 credits total. Certain classes taken beyond department requirement can count towards elective credits, or students may choose from the elective category.	Creative Writing (fall)	0.5	None
	Creative Writing & Publishing (spring)	0.5	None
	Introduction to Medical, Scientific, and Legal Terminology (fall or spring)	0.5	None
Leadership Optional - counts toward elective credits	Leadership Education and Training I	1.0	Must be in the Corps of Cadets
	Leadership Education and Training II	1.0	LET I

10th Grade Course Offerings and Prerequisites 2026-2027

Department	Course Offering	Credit	Prerequisites
English 4.0 credits total, Must be taken each grade	English II CP or	1.0	English I
	English II Honors	1.0	95+ in English I CP or 90+ in English I Honors, English PSAT $\geq$ 500, Departmental approval
Math 4.0 credits total, Must be taken each grade. Must include Algebra, Geometry & Algebra II. (8th grade math courses count for prerequisites but not towards credits.)	Geometry CP or	1.0	Algebra I
	Advanced Topics in Geometry (H) or	1.0	95+ in Algebra 1 CP or 90+ in Algebra 1 Advanced, Departmental Approval
	Algebra II CP or	1.0	Geometry
	Algebra II Honors or	1.0	95+ in both Algebra 1 CP and Geometry CP, or 90+ in Algebra 1 Advanced and Advanced Topics in Geometry, Departmental approval
	Pre-Calculus (CP or H or AP)	1.0	Honors requires a 95+ in Algebra II CP or a 90+ in Algebra II Honors, Departmental approval AP requires a 95+ in Algebra II Honors, Departmental approval
Science 4.0 credits total. Must include Physics, Chemistry & Biology	Chemistry CP or	1.0	None
	Advanced Topics in Chemistry (H)	1.0	95+ in CP Physics and math or 90+ in Honors Physics and math, Departmental approval
	AP Computer Science A	1.0	Introduction to Programming/Functional Programming OR AP Comp Sci Principles
	Astronomy (fall)	0.5	None
	Meteorology (spring)	0.5	None
	Electronic Engineering	1.0	Algebra I, Physics
	Introduction to Programming (fall)	0.5	Algebra I, Departmental approval
	Functional Programming (spring)	0.5	Introduction to Programming, Departmental approval
Social Studies 4.0 credits total. Must include Global Studies I & II (or AP World) and U.S. History.	Global Studies II CP or	1.0	Global Studies I
	AP World History: Modern	1.0	95+ in Global Studies I CP or 90+ in Global Studies I Hon, English PSAT $\geq$ 550, Departmental approval
World Language 3.0 credits or Level 3 or above in the same language.	Latin I	1.0	None
	Latin II	1.0	Latin I
	Latin III	1.0	Latin II
	Spanish I	1.0	None
	Spanish II	1.0	Spanish I
	Spanish II Heritage	1.0	Departmental approval
	Spanish III	1.0	Spanish II
	Spanish IV Honors	1.0	Spanish III, Departmental approval
	Spanish V Honors	1.0	Spanish IV, Departmental approval
	AP Spanish Language & Culture	1.0	Departmental approval
	AP Spanish Literature & Culture	1.0	Departmental approval
Religious Studies	Philosophy of Human Flourishing (fall or spring)	0.5	None

Department	Course Offering	Credit	Prerequisites
1.0 credit total. Must include Philosophy of Human Flourishing	Introduction to the Bible (fall or spring)	0.5	None
	Religion in Global Context (fall or spring)	0.5	None
Arts & Innovation	Introduction to Art & Design	1.0	None
Fine Arts = 2.0 credits total.	Drawing & Painting I	1.0	Introduction to Art & Design
Innovation = 0.5 credits total. Must include Innovation, Design & Technology. All other Innovation courses count as electives.	Photography I	1.0	Introduction to Art & Design
	Ceramics I	1.0	Introduction to Art & Design
	Yearbook I	1.0	Introduction to Art & Design, Departmental approval
	Digital Music Composition	1.0	None
	Advanced Digital Music Composition	1.0	Digital Music Composition
	Symphonic Band I	1.0	None
	Symphonic Band II	1.0	Symphonic Band I
	Theatre Arts I	1.0	None
	Theatre Production I	1.0	None
	Theatre Production II		Theatre Production I
	Production Technology	1.0	None
	Innovation, Design & Technology (fall or spring)	0.5	None
	Project Management (fall or spring)	0.5	Innovation, Design & Technology
	Introduction to Engineering and Computer Aided Design (fall)	0.5	Innovation, Design & Technology
	Principles of Engineering (spring)	0.5	Introduction to Engineering and Computer Aided Design
	Architecture & the Built Environment I (fall)	0.5	Innovation, Design & Technology
	Architecture & the Built Environment II (spring)	0.5	Architecture & the Built Environment I
Athletics	Fitness Training (fall, spring)	0.5	None
1.0 credit total. Can be earned with 1 year of fitness classes or 2 seasons of playing a sport.	Fall Sports: Cheerleading, Cross Country, Football, Volleyball Winter Sports: Basketball, Cheerleading, Soccer, Swimming Spring Sports: Baseball, Golf, Lacrosse, Softball, Tennis, Track & Field		
Electives	Creative Writing (fall)	0.5	None
3.0 credits total. Certain classes taken beyond department requirement can count towards elective credits, or students may choose from the elective category.	Creative Writing & Publishing (spring)	0.5	None
	Civil Rights in America (fall, spring)	0.5	None
	Introduction to Medical, Scientific, and Legal Terminology (fall or spring)	0.5	None

Department	Course Offering	Credit	Prerequisites
	Digital Marketing (fall, spring)	0.5	Introduction to Art & Design
Leadership Optional - counts toward elective credits	Leadership Education and Training I	1.0	None
	Leadership Education and Training II	1.0	Leadership Education and Training I

11th Grade Course Offerings and Prerequisites 2026-2027

Department	Course Offering	Credit	Prerequisites
English 4.0 credits total, Must be taken each grade	English III CP or	1.0	English II
	AP English Language & Composition	1.0	95+ in English II CP or 90+ in English II Honors, English PSAT $\geq$ 560, Departmental approval
Math 4.0 credits total, Must be taken each grade. Must include Algebra, Geometry & Algebra II. (8th grade math courses count for prerequisites but not towards credits.)	Algebra II CP or	1.0	Geometry
	Algebra II Honors or	1.0	95+ in both Algebra I CP and Geometry CP, or 90+ in Algebra I Advanced and Advanced Topics in Geometry, Departmental approval
	Pre-Calculus (CP or H or AP)	1.0	Honors requires a 95+ in Algebra II CP or a 90+ in Algebra II Honors, Departmental approval AP requires a 95+ in Algebra II Honors, Departmental approval
	College Algebra	1.0	Algebra II, Departmental approval
	AP Calculus AB	1.0	95+ in Pre-Calculus CP, 90+ in Pre-Calculus Honors, 90+ in AP Pre-Calculus, or a 90+ in Calculus CP. Departmental approval
	AP Calculus BC	1.0	95+ in Pre-Calculus Honors, 90+ in AP Pre-Calculus, or 90+ in AP Calculus AB, Departmental approval
	Advanced Math Topics (fall only or full year)	1.0	AP Calculus BC, Departmental Approval
	Calculus	1.0	Pre-Calculus
Science 4.0 credits total. Must include Physics, Chemistry & Biology	Biology CP or	1.0	None
	Advanced Topics in Biology (H)	1.0	95+ in CP Chemistry, math, English, and history or 90+ in Honors Chemistry, math, English, and history, Departmental approval
	AP Computer Science A	1.0	Introduction to Programming/Functional Programming OR AP Comp Sci Principles
	Anatomy & Physiology	1.0	None
	Astronomy (fall)	0.5	None
	Meteorology (spring)	0.5	None
	Biotechnology	0.5	None
	Neuroscience	0.5	None
	Electronic Engineering	1.0	Algebra I, Physics
	Introduction to Programming (fall)	0.5	Algebra I, Departmental approval
	Functional Programming (spring)	0.5	Introduction to Programming, Departmental approval
	AP Chemistry	1.0	95+ in CP Chemistry and math, or 90+ in Honors Chemistry and math, Departmental approval
	AP Physics I	1.0	Completion of Pre-Calculus, Departmental approval

Department	Course Offering	Credit	Prerequisites
	AP Physics C: Mechanics	1.0	AP Physics I or completion of Calculus, Departmental approval
	AP Physics C: Electricity & Magnetism	1.0	AP Physics I or completion of Calculus, Departmental approval
Social Studies 4.0 credits total. Must include Global Studies I & II (or AP World) and U.S. History.	U.S. History CP or	1.0	Global Studies II or AP World: Modern
	AP U.S. History	1.0	95+ in Global Studies II CP or 90+ in AP World, English PSAT $\geq$ 550, 3+ on AP World Exam, Departmental approval
	Economics (fall, spring)	0.5	None
	Civil Rights in America (fall, spring)	0.5	None
	The Holocaust: History and Historians (fall)	0.5	None
	The Second World War (spring)	0.5	None
	Herstory, Theirstory, Ourstory, History (fall)	0.5	None
	Why War (spring)	0.5	None
World Language 3.0 credits or Level 3 or above in the same language.	Latin I	1.0	None
	Latin II	1.0	Latin I
	Latin III	1.0	Latin II
	Latin IV Honors	1.0	Latin III, Departmental approval
	AP Latin	1.0	Departmental approval
	Spanish I	1.0	None
	Spanish II	1.0	Spanish I
	Spanish II Heritage	1.0	Departmental approval
	Spanish III	1.0	Spanish II
	Spanish IV Honors	1.0	Spanish III, Departmental approval
	Spanish V Honors	1.0	Departmental approval
	AP Spanish Language & Culture	1.0	Departmental approval
	AP Spanish Literature & Culture	1.0	Departmental approval
Religious Studies 1.0 credit total.	Philosophy of Human Flourishing (fall or spring)	0.5	None
	Introduction to the Bible (fall or spring)	0.5	None
	Religion in Global Context (fall or spring)	0.5	None
Fine Arts 2.0 credits total.	Introduction to Art & Design	1.0	None
	Drawing & Painting I	1.0	Introduction to Art & Design
	Drawing & Painting II Honors	1.0	Drawing & Painting I, Departmental approval
	Photography I	1.0	Introduction to Art & Design
	Photography II Honors	1.0	Photography I, Departmental approval

Department	Course Offering	Credit	Prerequisites
	Ceramics I	1.0	Introduction to Art & Design
	Ceramics/Sculptural Design II	1.0	Ceramics I
	Yearbook I	1.0	Introduction to Art & Design, Departmental approval
	Yearbook II Honors	1.0	Yearbook I
	Digital Music Composition	1.0	None
	Advanced Digital Music Composition	1.0	Digital Music Composition
	Symphonic Band I	1.0	None
	Symphonic Band II	1.0	Symphonic Band I
	Symphonic Band III Honors	1.0	Symphonic Band II
	Theatre Arts I	1.0	None
	Theatre Production I	1.0	None
	Theatre Production II	1.0	Theatre Production I
	Theatre Production III Honors	1.0	Theatre Production II
	Production Technology	1.0	None
Athletics 1.0 credit total. Can be earned with 1 year of fitness classes or 2 seasons of playing a sport.	Fitness Training (fall, spring)	0.5	None
	Fall Sports: Cheerleading, Cross Country, Football, Volleyball Winter Sports: Basketball, Cheerleading, Soccer, Swimming Spring Sports: Baseball, Golf, Lacrosse, Softball, Tennis, Track & Field		
Electives 3.0 credits total. Certain classes taken beyond department requirement can count towards elective credits, or students may choose from the elective category.	Innovation, Design & Technology (fall or spring)	0.5	None
	Project Management (fall, spring)	0.5	Innovation, Design & Technology
	Introduction to Engineering & Computer Aided Design (fall)	0.5	Innovation, Design & Technology
	Principles of Engineering (spring)	0.5	Introduction to Engineering & Computer Aided Design
	Architecture & the Built Environment I (fall)	0.5	Innovation, Design & Technology
	Architecture & the Built Environment II (spring)	0.5	Architecture & the Built Environment I
	Creative Writing (fall)	0.5	None
	Creative Writing & Publishing (spring)	0.5	None
	Contemporary Fiction & Film (full year, fall only, or spring only)	1.0/0.5	None
	Introduction to Medical, Scientific, and Legal Terminology (fall or spring)	0.5	None
	Digital Marketing (fall, spring)	0.5	Introduction to Art & Design
	Introduction to Business and Entrepreneurship (fall, spring)	0.5	None
	Legal Environment of Business	0.5	Introduction to Business and Entrepreneurship (or concurrent enrollment)
	Finance I (fall)	0.5	Algebra II
	Finance II (spring)	0.5	Algebra II, Finance I
	AP Psychology	1.0	90+ in previous History course, PSAT/SAT ≥ 1010, Departmental approval

Department	Course Offering	Credit	Prerequisites
	AP Statistics	1.0	90+ in Pre-Calculus or concurrent enrollment, Departmental approval
	Statistics	1.0	Algebra II
Leadership Optional - counts toward elective credits	Leadership Education and Training I	1.0	None
	Leadership Education and Training II	1.0	Leadership Education and Training I
	Leadership Education and Training III H	1.0	Leadership Education and Training II

12th Grade Course Offerings and Prerequisites 2026-2027

Department	Course Offering	Credit	Prerequisites
English 4.0 credits total, Must be taken each grade	English IV CP or	1.0	English III
	AP English Literature & Composition or	1.0	95+ in English III CP, 90+ in AP English, English PSAT ≥ 560, Departmental approval
	AP English Language & Composition	1.0	AP English Literature & Composition, Departmental approval
Math 4.0 credits total, Must be taken each grade. Must include Algebra, Geometry & Algebra II. (8th grade math courses count for prerequisites but not towards credits.)	Calculus or	1.0	Pre-Calculus
	Pre-Calculus (CP or H or AP)	1.0	Honors requires a 95+ in Algebra II CP or a 90+ in Algebra II Honors, Departmental approval AP requires a 95+ in Algebra II Honors, Departmental approval
	Calculus C (spring)	1.0	AP Calculus AB must have been taken in 11th grade, Departmental approval
	AP Calculus AB	1.0	95+ in Pre-Calculus CP, 90+ in Pre-Calculus Honors, 90+ in AP Pre-Calculus, or a 90+ in Calculus CP. Departmental approval
	AP Calculus BC	1.0	95+ in Pre-Calculus Honors, 90+ in AP Pre-Calculus, or 90+ in AP Calculus AB, Departmental approval
	AP Statistics	1.0	90+ in Pre-Calculus or concurrent enrollment, Departmental approval
	Statistics	1.0	Algebra II
	Advanced Math Topics (fall only or full year)	1.0	AP Calculus BC, Departmental Approval
Science 4.0 credits total. Must include Physics, Chemistry & Biology	AP Biology	1.0	95+ in CP science, math, English, and history or 90+ in Honors science, math, English, and history, Departmental approval
	AP Environmental Science	1.0	95+ in CP science, math, English, and history or 90+ in Honors science, math, English, and history, Departmental approval
	AP Computer Science A	1.0	Introduction to Programming/Functional Programming OR AP Comp Sci Principles
	Anatomy & Physiology	1.0	None
	Astronomy (fall)	0.5	None
	Meteorology (spring)	0.5	None
	Biotechnology	0.5	None
	Neuroscience	0.5	None
	Electronic Engineering	1.0	Algebra I, Physics
	Introduction to Programming (fall)	0.5	Algebra I, Departmental approval
	Functional Programming (spring)	0.5	Introduction to Programming, Departmental approval
	AP Chemistry	1.0	95+ in CP science and math, or 90+ in Honors science and math, Departmental approval

Department	Course Offering	Credit	Prerequisites
	AP Physics I	1.0	Completion of Pre-Calculus, Departmental approval
	AP Physics C: Mechanics	1.0	AP Physics I or completion of Calculus, Departmental approval
	AP Physics C: Electricity & Magnetism	1.0	AP Physics I or completion of Calculus, Departmental approval
Social Studies 4.0 credits total. Must include Global Studies I & II (or AP World) and U.S. History.	AP Macroeconomics (fall, spring)	0.5	95+ in US History CP or 90+ in APUSH, Math PSAT $\geq$ 600, Departmental approval
	AP Government (fall, spring)	0.5	80+ in US History CP or APUSH
	Economics (fall, spring)	0.5	None
	Government (fall, spring)	0.5	None
	Civil Rights in America (fall, spring)	0.5	None
	The Holocaust: History and Historians (fall)	0.5	None
	The Second World War (spring)	0.5	None
	Herstory, Theirstory, Ourstory, History (fall)	0.5	None
	Why War (spring)	0.5	None
World Language 3.0 credits or Level 3 or above in the same language.	Latin I	1.0	None
	Latin II	1.0	Latin I
	Latin III	1.0	Latin II
	Latin IV Honors	1.0	Latin III, Departmental approval
	AP Latin	1.0	Departmental approval
	Spanish I	1.0	None
	Spanish II	1.0	Spanish I
	Spanish II Heritage	1.0	Departmental approval
	Spanish III	1.0	Spanish II
	Spanish IV Honors	1.0	Spanish III, Departmental approval
	Spanish V Honors	1.0	Departmental approval
	AP Spanish Language & Culture	1.0	Departmental approval
	AP Spanish Literature & Culture	1.0	Departmental approval
Religious Studies 1.0 credit total.	Philosophy of Human Flourishing (fall or spring)	0.5	None
	Introduction to the Bible (fall or spring)	0.5	None
	Religion in Global Context (fall or spring)	0.5	None
Fine Arts 2.0 credits total.	Introduction to Art & Design	1.0	None
	Drawing & Painting I	1.0	Introduction to Art & Design
	Drawing & Painting II Honors	1.0	Drawing & Painting I, Departmental approval

Department	Course Offering	Credit	Prerequisites	
	Drawing & Painting III Honors	1.0	Drawing & Painting II, Departmental approval	
	AP Drawing	1.0	Drawing & Painting II, Departmental approval	
	Photography I	1.0	Introduction to Art & Design	
	Photography II Honors	1.0	Photography I, Departmental approval	
	AP 2D Art & Design	1.0	Photography II Honors, Departmental approval	
	Ceramics I	1.0	Introduction to Art & Design	
	Ceramics/Sculptural Design IIH	1.0	Ceramics I	
	Ceramics/Sculptural Design IIIH	1.0	Ceramics/Sculptural Design IIH	
	Yearbook I	1.0	Introduction to Art & Design	
	Yearbook II Honors	1.0	Yearbook I, Departmental approval	
	Yearbook III Honors	1.0	Yearbook II Honors	
	Digital Music Composition	1.0	None	
	Advanced Digital Music Composition	1.0	Digital Music Composition	
	Symphonic Band I	1.0	None	
	Symphonic Band II	1.0	Symphonic Band I	
	Symphonic Band III Honors	1.0	Symphonic Band II	
	Symphonic Band IV Honors	1.0	Symphonic Band III Honors	
	Theatre Arts I	1.0	None	
	Theatre Production I	1.0	None	
	Theatre Production II	1.0	Theatre Production I	
	Theatre Production III Honors	1.0	Theatre Production II	
	Theatre Production IV Honors	1.0	Theatre Production III Honors	
	Production Technology	1.0	None	
	Athletics	Fitness Training (fall, spring)	0.5	None
	1.0 credit total. Can be earned with 1 year of fitness classes or 2 seasons of playing a sport.	Fall Sports: Cheerleading, Cross Country, Football, Volleyball Winter Sports: Basketball, Cheerleading, Soccer, Swimming Spring Sports: Baseball, Golf, Lacrosse, Softball, Tennis, Track & Field		
	Electives	Innovation, Design & Technology (fall or spring)	0.5	None
	3.0 credits total. Certain classes taken beyond department requirement can count towards elective credits, or students may choose from the elective category.	Project Management (fall, spring)	0.5	Innovation, Design & Technology
		Introduction to Engineering & Computer Aided Design (fall)	0.5	Innovation, Design & Technology
		Principles of Engineering (spring)	0.5	Introduction to Engineering & Computer Aided Design
Architecture & the Built Environment I (fall)		0.5	Innovation, Design & Technology	
Architecture & the Built Environment II (spring)		0.5	Architecture & the Built Environment I	
Creative Writing (fall)		0.5	None	
Creative Writing & Publishing (spring)		0.5	None	
Contemporary Fiction & Film (full year, fall only, or spring only)		1.0/0.5	None	
Introduction to Medical, Scientific, and Legal Terminology (fall or spring)		0.5	None	
Digital Marketing (fall, spring)		0.5	Introduction to Art & Design	

Department	Course Offering	Credit	Prerequisites
	Introduction to Business and Entrepreneurship (fall, spring)	0.5	None
	Legal Environment of Business (spring)	0.5	Introduction to Business and Entrepreneurship (or concurrent enrollment)
	Finance I (fall)	0.5	Algebra II
	Finance II (spring)	0.5	Algebra II, Finance I
	AP Psychology	1.0	90+ in previous History course, PSAT/SAT $\geq$ 1010, Departmental approval
Leadership	Leadership Education and Training I	1.0	None
Optional - counts toward elective credits	Leadership Education and Training II	1.0	Leadership Education and Training I
	Leadership Education and Training III H	1.0	Leadership Education and Training II
	Leadership Education and Training IV H	1.0	Leadership Education and Training III H

English

AP English Language and Composition

Prerequisites required

This course is taken by juniors in lieu of English III, and it requires departmental approval. Aligned to an introductory college-level rhetoric and writing curriculum, the AP Language and Composition course cultivates the reading and writing skills that students need for college success and intellectually responsible civic engagement. The course guides students in becoming curious, critical, and responsive readers of primarily non-fiction diverse texts, and becoming flexible, reflective writers of texts addressed to diverse audiences for diverse purposes. The reading and writing students complete in the course deepen and expand their understanding of how written language functions rhetorically. The course culminates in the nationally administered AP Exam in May. Students who perform well on this exam may receive college credit and/or placement into advanced courses in college. Students in the AP section should be passionate readers and writers who have a strong foundational grammar and vocabulary base.

AP English Literature and Composition

Prerequisites required

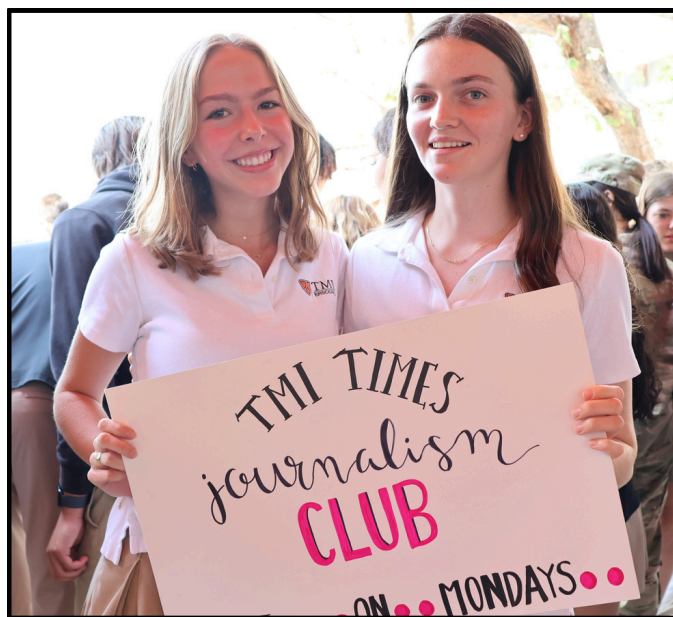
Taken in lieu of English IV by seniors who have demonstrated the ability and commitment to study literature at the college level, the curriculum and standards of this course reflect recommendations of the College Board. The course focuses on deep analysis of select works of (mostly) British literature from the 16th to the 21st century. Along with the class work, students each complete an independent project with a deep look at literature through a lens of the student's choice. The course culminates in the nationally-administered AP Exam in May. Students who perform well on this exam may receive college credit and/or placement into advanced courses in college. Students in the AP section should be passionate readers and writers who have a strong foundational grammar and vocabulary base.

Contemporary Fiction and Film (*Full Year or Semester*)

This is a reading and discussion-intensive class. Students are expected to complete quite a bit of outside reading in preparation for robust participation in classroom discussion. Grading will consist of three or four major essays per semester. Texts may include works by renowned contemporary writers such as Truman Capote, Ernest Hemingway, F. Scott Fitzgerald, and Cormac McCarthy. Films are shown to augment the readings.

Creative Writing (*Semester*)

In this class, students will examine and practice a variety of forms of creative writing, including but not limited to short fiction, poetry, and creative nonfiction (memoir and essay). Using exemplary literary models, students will discuss elements including: characterization, point-of-view, plot, tone, narrative, dialogue, voice, setting, mood, figurative language, rhythm and theme. Students will exploit those literary models in the service of their own writing, engaging in all aspects of the writing process from brainstorming and composition to work-shopping and revision. Students will work to become better writers by working and reworking their own pieces, evaluating the writing of their peers, collaborating with classmates in co-authored pieces, and discussing the writing process and technique with visiting published authors. All students will maintain portfolios that should include drafts as well as finished pieces. Polished pieces of writing will be submitted to local and national writing contests, including TMI's literary magazine, *The Muse*. This class is open to Upper School students in grades 9-12 and is a one-semester class taught in the fall.



English I

This required ninth grade course focuses on a genre approach to literature in which students read and interpret literary forms through discussion and writing. Students learn and practice multi-paragraph essay writing techniques. Emphasis is placed on modes of discourse, research, documentation, correct use of oral and written language, the basics of literary analysis, and attention to substance, organization, and correctness in student writing.

English (cont.)

English I Honors

Prerequisites required

This required ninth-grade course focuses on a genre approach to literature in which students read and interpret literary forms through discussion and writing. Students learn and practice multi-paragraph essay writing techniques. Emphasis is placed on modes of discourse, research, documentation, correct use of oral and written language, the basics of literary analysis, and attention to substance, organization, and correctness in student writing. Additionally, students in the Honors section should be passionate readers and writers who have a strong foundational grammar and vocabulary base.

English II

English II presents a variety of stories from around the world which encourage students to question their preconceptions about race, class and gender, along with empires and colonies, war and peace, culture, nationality and religion. Immersion into stories of unfamiliar people and cultures elicits empathy and understanding for others as well as identification with those whose struggles and triumphs are common to the human condition. With its focus on world literature, this required tenth grade course builds an understanding of the many dimensions of human experience and guides students in a wide range of strategies to comprehend, interpret, evaluate and appreciate a variety of texts and genres. At the same time, students learn to employ a diverse range of modes (in addition to formal writing) to most effectively communicate their ideas to diverse audiences.

English II Honors

Prerequisites required

Honors World Literature is an advanced, reading and writing intensive, discussion-driven course that examines significant literary works from diverse cultures and historical periods. Through close reading and analysis of short stories, novels, plays, and poems, students understand a vast range of literary techniques and styles and examine how social, historical, and philosophical contexts shape meaning. Critical thinking, analytical writing, and thoughtful class participation are essential components of this course, challenging students to develop skills necessary to express their ideas with sophistication, nuance, and clarity. A special emphasis is placed on developing skills related to the writing and revision process. Assignments require students to work both independently and collaboratively, and include a variety of traditional essays, creative projects, and smaller in-class assignments.

English III

Prerequisites required

This required eleventh grade course is primarily focused on non-fiction texts and is designed to instill students with the reading, writing, and problem solving skills they will need in college and beyond. Students are also encouraged to adopt the habits of successful college students: goal-setting, reflection, and self-evaluation. The course aims in particular to equip students to write for a wide variety of purposes, audiences, and genres. Students study the arts of rhetoric, argumentation, and synthesis, which will benefit them on college entrance exams as well as in college writing itself.

English IV

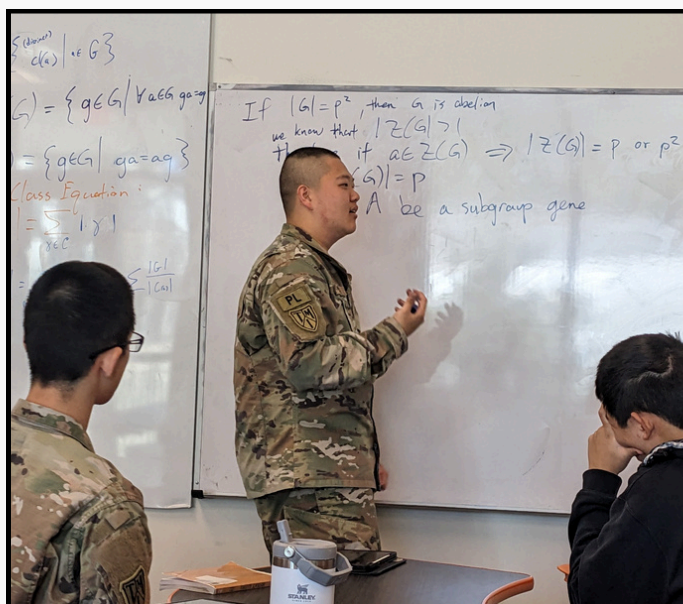
To prepare students for success at college, English IV trains students in diligent and responsible scholarship as well as critical thinking about diverse texts. Through novel units (on both classic and contemporary novels) as well as units on memoirs, drama, poetry, short stories, and critical theories, students gain the ability to immerse themselves in sustained studies of longer, challenging works and to grapple with the questions about the human experience that great literature evokes. Students experience a deep-dive into a contemporary novel, learning how context shapes meaning, developing their own research questions about a given text, and conducting scholarly research in library databases. These research skills coalesce in the completion of an-MLA documented research essay. Throughout the course, students participate in discussions, Socratic seminars, and writer's notebooks that allow them to reflect, respond, and engage with the essential questions as inspired by the literary works studied. Students are summatively assessed on the ability to conduct database research, assess the validity and relevancy of sources, and incorporate scholarly research into their own arguments, while maintaining the highest level of accuracy, transparency, and synthesis. To expose students to diverse voices and ideas, twentieth-century and contemporary dramas, memoirs, or novels are selected. Students complete at least one major documented research essay, as well as process documents such as a thesis outline and annotated bibliography.

Math

Advanced Math Topics

Prerequisites required

This semester or full-year course is for students who have demonstrated exceptional ability and interest in mathematics and who are interested in pursuing the subject beyond the Advanced Placement level. Students will be taught topics in a range of subject areas that will change depending upon the semester, including linear algebra, multivariable calculus and engagement in in-depth discussion, application, and theory.



Advanced Math Topics (Fall Semester or Full Year)

Prerequisites required

This semester or full-year course is for students who have demonstrated exceptional ability and interest in mathematics and who are interested in pursuing the subject beyond the Advanced Placement level. Students will be taught topics in a range of subject areas that will change depending upon the semester, including linear algebra, multivariable calculus and engagement in in-depth discussion, application, and theory.

Advanced Topics of Geometry

Prerequisites required

In this course, students learn about logical systems and then use this knowledge to develop classical Euclidean geometry as a logical system. This class will particularly emphasize proof-based mathematical reasoning to study the relationships between various geometric objects.

Algebra I

This course guides students in the development of critical thinking and algebraic problem-solving skills, which provide the foundation for real-world problem-solving. Modeling and problem-solving are at the heart of the curriculum. Students must be able to solve practical problems, representing and analyzing the situation using symbols, graphs, tables and diagrams.

Algebra II

This course will reinforce students' knowledge from Algebra I and build skills involving problem solving, math modeling, reasoning and communicating using different methods. Students will study operations with linear, quadratic, polynomial, exponential, and logarithmic functions. This course also includes statistics, probability, and a focus on graphing with/without technology.

Algebra II Honors

This honors course is a highly accelerated course that will reinforce students' knowledge from Algebra I and build skills in problem solving, math modeling, reasoning and communicating using different methods. Students will study operations with linear, quadratic, polynomial, exponential, and logarithmic functions. This course also includes statistics, probability and a focus on graphing with/out technology.

AP Calculus AB

Prerequisites required

This Advanced Placement course is an elective for students who were very successful in Pre-Calculus and have demonstrated the ability and commitment to study mathematics at the college level. Topics covered will include limits, derivatives, indefinite integrals, definite integrals, and applications to velocity, acceleration, area, volume, related rates, and exponential growth.

AP Calculus BC

Prerequisites required

This Advanced Placement course is an elective for students who have successfully completed Pre-Calculus Honors or AP and have demonstrated the ability and commitment to study mathematics at the college level. In addition to those topics covered in AP Calculus AB, this intense course will include L'Hopital's Rule, improper integrals and partial fractions, infinite series, and the calculus of parametric, polar, and vector functions.

Math (cont.)

AP Pre-calculus

Prerequisites required

This Advanced Placement course is designed for students who were very successful in Algebra II Honors and have demonstrated the ability and commitment to study mathematics at the college level. Topics include all covered in Pre-Calculus Honors and additional topics of functions involving parameters, vectors and matrices.

AP Statistics

Prerequisites required

This course is an elective for students who have completed Pre-Calculus or are concurrently enrolled in Pre-Calculus and have demonstrated the ability and commitment to study mathematics at the college level. Topics covered will include data analysis, sampling and experimental design, probability, and statistical inference.

Calculus

This course is an elective for students who were successful in Pre-Calculus and have demonstrated the ability and commitment to study mathematics at the college level. Topics covered will include limits, derivatives, indefinite integrals, definite integrals, and applications to velocity, acceleration, area, volume, related rates, and exponential growth.

Calculus C

Prerequisites required

This course is a semester elective for students who have successfully completed AP Calculus AB. This course will offer a quick refresher on material that is covered in both AP Calculus AB and AP Calculus BC. The course will offer a deep dive into material that is not covered in AP Calculus AB including improper integrals and partial fractions, infinite series, and the calculus of parametric, polar, and vector functions.



College Algebra

This full year, one credit course is designed for students who will benefit from a comprehensive review of the fundamental concepts of Algebra. Prerequisite: Algebra II This course is only allowed to be taken if recommended by a teacher.

Finance (Fall Semester)

This semester course is designed for students investigation into financial mathematics as applied to the stock market, business models, banking services, investment plans and other applications. Students will continue to build on Algebra II skills to apply models to real-world financial problems.

Finance II: Corporate Finance (Spring Semester)

Prerequisites required

This course introduces the subject of business finance. It provides students with a general understanding of the basic financial concepts that every manager should know. This includes an understanding of the historic and current practices and theoretical concepts of the finance discipline that are relevant to business and management today and useful for future organizational decision-making. The course also serves as a strong foundation for further study in the field of finance.

Geometry

This course guides students through Euclidean geometry with a focus on problem solving, reasoning and communicating, representing and connecting, and seeing patterns and generalizing. Plane, coordinate, and 3-dimensional geometries are studied, and algebra is used as a tool in applying new facts.

Pre-Calculus

This course prepares students for a rigorous Calculus sequence and includes a survey of algebraic and transcendental functions, a deeper dive into trigonometry, polar coordinates, vectors, sequences, series, induction, limits, and continuity. Students also complete a year-long study of graphing techniques.

Math (cont.)

Pre-calculus Honors

Prerequisites required

This honors course is an important bridge between Algebra II and Calculus. Honors Pre-Calculus equips the student with the tools necessary to succeed in higher mathematics. Topics such as functions, families of graphs, limits, logarithms, parametric equations, probability, sequences/series, and trigonometric functions/identities are studied in-depth. Students are challenged to show their proficiency both with and without the use of a graphing calculator. In addition, students deal with challenging applications and problem solving and must be able to communicate orally and symbolically about mathematics.

Statistics

Statistics-CP is a year long course designed to introduce the methods used in the field of applied statistics. Emphasis is given to basic concepts and techniques for collecting and analyzing data, drawing conclusions, and making predictions. The major focus of this course is to provide students with experience in creating statistical models from which we can draw conclusions from the past and make predictions about the future.

Science

Advanced Topics in Biology Honors

Prerequisites required

Advanced Topics in Biology is an accelerated course of study in the fundamental concepts of biology that prepares students for further work in advanced science courses, especially Advanced Placement Biology. It is a survey course. Topics include cellular and molecular biology, cellular energetics, heredity, gene expression and regulation, evolution, and ecology. Students will also practice the skills needed for any of the advanced placement classes in science. This class reinforces student knowledge of physics and chemistry while providing a greater depth of understanding in biology. This course begins the Biomedical Sciences Pathway and is taken during the junior year.

Advanced Topics in Chemistry Honors

Prerequisites required

Advanced Topics in Chemistry is an accelerated course of study in the fundamental concepts of chemistry that prepares students for further work in advanced science courses, especially Advanced Placement Chemistry. It is a survey course that explores the relationship between energy and matter through topics that include atomic structure, the periodic table, types of compounds, reaction types, stoichiometry, gas laws, solutions. Students will also practice the skills needed for any of the advanced placement classes in science. This class reinforces student knowledge of physics while providing a greater depth of understanding in chemistry.

Advanced Topics in Physics Honors

Prerequisites required

Advanced Topics in Physics is an accelerated course of study in the fundamental concepts and mathematical underpinnings of physics that prepares students for further work in advanced science courses--especially AP Physics (1 and C). Topics include motion, forces, energy, momentum, gravitation, sound, light, and electricity & magnetism. With a strong foundation in forces and energy, students will be ready to subsequently tackle.

Anatomy/Physiology

This full year course covers the fundamentals of human anatomy and physiology. Students will explore the connection between structure and function in the human body. This is a survey course which studies most of the varied and complex systems, including the integumentary, skeletal, muscular, cardiovascular, immune, endocrine and reproductive systems. This course will feature laboratory work, projects, lectures, and activities. Students experience real-world scenarios and cases to see medicine in action. This course is available to students in grades 11-12. Anatomy and Physiology is part of the Biomedical Sciences Pathway and should be taken during the junior year.

Science (cont.)

AP Biology

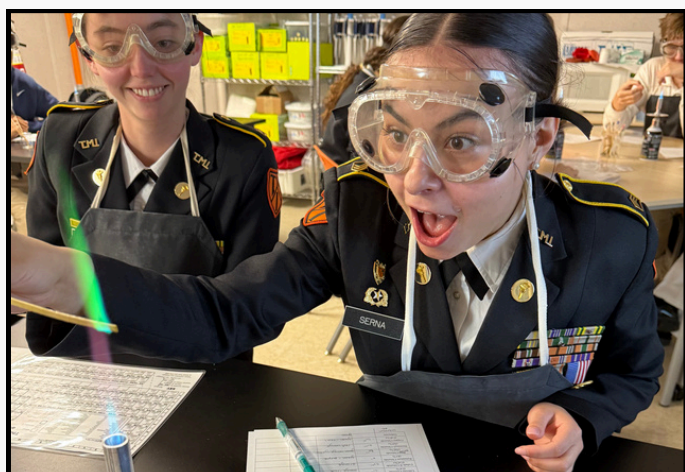
Prerequisites required

This Advanced Placement college-level, laboratory-oriented course covers a wide range of topics from simple biological chemistry to the details of vertebrate systems. Coursework includes lectures, discussions, laboratory work and other activities. The course culminates in the nationally-administered AP Exam in May. Students who perform well on this exam may receive college credit and/or placement into advanced courses in college. Prerequisites: Chemistry and Biology. AP Biology is part of the Biomedical Pathway and is to be taken in the senior year.

AP Chemistry

Prerequisites required

This Advanced Placement college-level, laboratory-oriented course covers atomic and kinetic-molecular theories; states of matter; chemical bonding; equilibria, kinetics and thermodynamics of chemical processes; solutions chemistry including acid-base theory, oxidation-reduction and electrochemistry; properties of selected elements and their compounds; and introduction to nuclear and organic chemistry. The course culminates in the nationally-administered AP Exam in May. Students who perform well on this exam may receive college credit and/or placement into advanced courses in college.



AP Computer Science

Prerequisites required

This Advanced Placement, two-semester elective is for students who have successfully completed Introduction to Programming. The course culminates in the nationally-administered AP Exam in May. Students who perform well on this exam may receive college credit and/or placement into advanced courses in college.

AP Environmental Sciences

Prerequisites required

Advanced Placement Environmental Science: "This year-long course is designed to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and man-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them." (College Board AP Environmental Science course description)

While preparing students for the AP Environmental Science exam, the focus of the TMI AP Environmental Science course will be lab/field work designed to introduce students to the scientific methods, skills, and critical thinking utilized by environmental scientists.

AP Physics

Prerequisites required

This Advanced Placement college-level course covers the principles of Newtonian mechanics, including the essential concepts of motion in two dimensions, vector and scalar analysis, work, energy, power, mechanical waves, including sound and simple circuits. Critical thinking, analysis, problem solving and real-world applications are emphasized. The course culminates in the nationally-administered AP Exam in May. Students who perform well on this exam may receive college credit and/or placement into advanced courses in college.

AP Physics C - Mechanics

Prerequisites required

This Advanced Placement college-level, laboratory-oriented course uses introductory calculus as well as advanced algebra and trigonometry as the mathematical tools for solving physics problems. The course is devoted to Newtonian mechanics, to include kinematics, laws of motion, work and energy, systems of particles, momentum, circular motion, oscillations, and gravitation. The course emphasizes problem solving using calculus where appropriate, and makes use of both real and simulated laboratory work. It culminates in the nationally-administered AP Exam in May. Students who perform well on this exam may receive college credit and/or placement into advanced courses in college.

Science (cont.)

AP Physics C - Electricity and Magnetism

Prerequisites required

AP Physics C: Electricity and Magnetism is a lab-based, calculus-based, year-long college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as electrostatics, conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Introductory differential and integral calculus is used throughout the course.

Astronomy

This one-semester course is designed to introduce students to the fundamental concepts of the study of the universe. We will explore observations, ideas, and modern theories concerning the nature and evolution of galaxies, quasars, stars, black holes, planets and the solar system.

Biology (CP)

This is a student-centered, inquiry-based laboratory course for juniors. Students explore current biological concepts through laboratory and field investigations, out-of-class reading and reflection, Socratic dialogue (both written and oral), lecture, video, scientific presentations, review of literature, and computer-based laboratories. Topics include cellular biology, ecology, evolution, survey of kingdoms, and human biology.

Biotechnology

This is a laboratory-focused course offering students the opportunity to explore current technologies used in the fields of genetic engineering, medicine, forensics, and agriculture, and their ethical implications. Through experiments, students will study topics such as gene sequencing, DNA forensic fingerprinting, genetic modification of organisms, detecting genetic diseases, and analyzing food for the presence of genetically modified organisms. This course will also provide an introduction to the foundations of ethics and apply this to case studies in bioethics, investigating how these technologies intersect with privacy, law enforcement, race, and issues of justice. This course begins the Biomedical Sciences Pathway and should be taken in the junior year.

Chemistry

This sophomore course provides a foundation in the study of matter and the changes that matter undergoes. Students learn the fundamentals of chemical compounds and the general characteristics of chemical reactions. Opportunities are provided in the laboratory to observe and classify substances according to similarities and differences of properties, explore and manipulate chemical reactions, and predict the quantitative changes that chemical systems experience.

Electronic Engineering

This is a year-long course designed to introduce students to the world of technology and engineering, principally through a practical introduction to both analog and digital electronic systems. Electronic Engineering follows a project-based, studio assessment model, engaging students through collaborative, hands-on problem solving, to come up with creative solutions for real problems, with a strong emphasis on practical circuit design and testing. A systems approach to design is taken at all stages.

Experimental Physics

This freshman-level class is an inquiry-based science course utilizing student-designed experiments to study classical and modern physics. Students utilize experimental and observational skills to construct models of physical phenomena and then test those models. Topics include mechanics, thermodynamics, sound, optics, electromagnetism, and atomic and nuclear physics.

Functional Programming (*Spring Semester*)

This spring semester course is a continuation of Introduction to Programming. In this class, students will continue the study of functional programming, delving further into C. Topics covered will include Algorithmic Complexity and Effective Algorithms, Bitwise Operations, Stacks and storage management, Monte Carlo Simulation, and Pointer Arithmetic. At the end of the year, students will write their own large-scale projects, typically a simple video game or the equivalent. This course is very strongly recommended for students who want to enroll in AP Computer Science A, which will assume familiarity with Pointer Arithmetic. The course is taught in C and Python.

Science (cont.)

Introduction to Programming (*Fall Semester*)

This fall semester course is an intensive introduction to programming. No background knowledge is needed. Taught in Python and C, this course is appropriate to all levels, including those with a background in coding. The course is taught with an emphasis on effective coding. Most assignments will involve students writing their own original code to solve a problem. Topics covered will include Variables, Functions, Variable Types, Control Flow, Input and Output, User Interfaces, and Computational Methods. This course is a prerequisite for Functional Programming and for AP Computer Science A.

Meteorology (*Spring Semester*)

This one-semester course will make use of TMI's weather station equipment. It will introduce students to a study of the composition, structure, and physical properties of the Earth's atmosphere, along with a study of the interaction of the Earth's atmosphere with the land, oceans, and life on Earth.

Neuroscience

Our thoughts, emotions, and reasoning are all made possible by a few pounds of tissue behind our eyes. Neuroscience is the study of the structure and function of the nervous system, and explores the question: how are cognitive processes explained by the brain? This course takes students on a tour of the brain & nervous system, and the physiology that runs them. Topics include nervous system anatomy, neuron signalling, the neural basis for behavior, the special and general senses, diseases of the nervous system, and the effects of drugs on the brain. This course, along with biotechnology, begins the Biomedical Sciences Pathway and should be taken in the junior year.



Social Studies

AP Government (*Semester Course*)

Prerequisites required

An alternative to Government and Open to seniors (12th grade), students in this college-level one-semester course will study concepts and theories that govern U.S. government and politics, understand typical patterns of political processes and behavior and their consequences, and analyze and interpret basic data relevant to the American political system. Topics will include the constitutional underpinnings of our federal government, political beliefs and behaviors, political parties, interest groups and the mass media, and civil rights and civil liberties. The course culminates in the nationally-administered AP Exam in May. Students who perform well on this exam may receive college credit and/or placement into advanced courses in college. This course is for the motivated historian who exhibits a passion for the subject area.



AP Macroeconomics (*Semester Course*)

Prerequisites required

AP Macroeconomics is a college-level course open to seniors (12th grade) that introduces students to the principles of economics as they apply to the economy as a whole. The course examines key topics such as economic indicators, national income, price-level determination, economic growth, and international trade and finance. Students analyze concepts including aggregate supply and demand, fiscal and monetary policy, unemployment, inflation, and the role of government in promoting economic stability. Emphasis is placed on critical thinking, quantitative problem-solving, and the interpretation of economic data and models, all in preparation for the AP Macroeconomics Exam and to foster a deeper understanding of the contemporary global economy.

Social Studies (cont.)

AP Psychology

Prerequisites required

The AP Psychology course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. From the teacher: Students will learn through a variety of projects, discussions, individual exploration, and peer-learning. Be prepared for a high level of class participation. This course is for the motivated historian who exhibits a passion for the subject area.

AP U.S. History

Prerequisites required

AP U.S. History is an introductory college-level U.S. history course. Students cultivate their understanding of U.S. history from c. 1491 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like American and national identity; work, exchange, and technology; geography and the environment; migration and settlement; politics and power; America in the world; American and regional culture; and social structures.

AP World History: Modern

Prerequisites required

AP World History: Modern is an introductory college-level modern world history course. Students cultivate their understanding of world history from c. 1200 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation.

Civil Rights in America (*Semester Course*)

This course open to sophomores, juniors, and seniors (10th, 11th, and 12th graders) examines the origins, history, and complex legacy of the Civil Rights Movement, as well as the continuing struggle over how the movement is remembered and represented. Topics to be included for discussion and learning are: the legal campaign against segregation; Boycotts, sit-ins, and non-violent protest; the career of Martin Luther King, Jr.; the birth of the student movement; voter registration efforts; the rise of Black Power; the role of clergy and the church; the persistence of racial inequality in post-Jim Crow America, and reading primary sources (speeches/legal arguments/letters) from the era. The hope is to create thoughtful reflection on this specific era in American History, and to draw parallels between aspects of the movement and how the world has been changed by the leaders, ideas, and legislation from this time in United States history.

Economics (*Semester Course*)

This introductory economics course introduces students to the core principles and ways of thinking used by economists to analyze decision making and economic systems. Students will examine how choices are made under conditions of scarcity, how trade-offs and incentives influence behavior, and how economic interactions shape outcomes at both the individual and societal levels. The course emphasizes the use of models, data, and real-world examples to develop analytical skills and economic reasoning. By the end of the course, students will be equipped with a flexible framework for understanding economic issues and for engaging more deeply with both microeconomic and macroeconomic topics in future study.



Social Studies (cont.)

Global Studies I

In the first year (9th grade) of this two-year Global Studies course, students will combine the study of ancient history with geographic, and cultural topics, to include key skills. Using both a chronological and thematic approach, the course investigates the development of ancient, classical and post-classical societies. The historical scope of the course begins with pre-history and ends with a study of cross-cultural interactions to 1450 CE. Students focus on the similarities and differences among the world's faith traditions, the impact of technology and demography, societal systems of structuring authority and gender, and cultural and intellectual interactions within and among societies. The goals of instruction include helping students to see global patterns over time, sense where and why change has occurred, develop the capacity to compare and contrast societies, understand the variety of faith traditions across the world, develop an awareness of human similarities and differences, and understand the unique historical contexts that have contributed to culturally diverse ideas and values of our globe.

Global Studies I Honors

Prerequisites required

In the first year (9th grade) of this two-year Global Studies course, students will combine the study of ancient history with geographic, and cultural topics, to include key skills. Using both a chronological and thematic approach, the course investigates the development of ancient, classical and post-classical societies. The historical scope of the course begins with pre-history and ends with a study of cross-cultural interactions to 1450 CE. Students focus on the similarities and differences among the world's faith traditions, the impact of technology and demography, societal systems of structuring authority and gender, and cultural and intellectual interactions within and among societies. The goals of instruction include helping students to see global patterns over time, sense where and why change has occurred, develop the capacity to compare and contrast societies, understand the variety of faith traditions across the world, develop an awareness of human similarities and differences, and understand the unique historical contexts that have contributed to culturally diverse ideas and values of our globe. This course is for the motivated historian who exhibits a passion for the subject area.

Global Studies II

Global Studies II (10th Grade) focuses on comparative history and culture from 1450 C.E. to the present. The goals of this second year of Global Studies are similar to those of the first year and, as students progress in their study, they organize new information within the thematic and chronological framework introduced in Global Studies I. Students will study how societies after 1450 C.E. – Today interacted via trade, war, and diplomacy; how each historical era consisted of both change and continuity; how both technology and demography impacted societies; how various faith traditions impacted societies across time; how societies structured status and gender; how intellectual and cultural characteristics defined various eras, and how nation-states have emerged. These themes are the basic threads of the two-year Global Studies course and provide students the concepts and detailed facts requisite for developing a global perspective.

Government

This course designed for seniors (12th grade) explores the structure and dynamics of American national government through watching and analyzing political films, providing an introduction to the ideas and institutions that shape politics in the contemporary United States. Students will examine how motion pictures create a window into political life to develop a deeper, more comprehensive understanding of the forces that shape American government and politics so that he or she may be both a more discerning student and critic of the system and a more informed and reflective participant in it. Students must have already completed U.S. History to enroll.



Social Studies (cont.)



Herstory, Theirstory, Ourstory, History (Fall Semester)

This course, open to juniors and seniors (11th and 12th grade), explores the historical experiences, contributions, and societal advancement of women and minority groups, with a primary emphasis on American history and contextual connections to global developments. Students will examine how historically underrepresented groups have shaped political, social, economic, scientific, and cultural change through the analysis of primary and secondary sources and the consideration of multiple perspectives. The course engages students in the study of topics such as discrimination, inequality, human rights, political activism, and social movements, while also addressing the ways historical narratives are constructed and revised over time. Emphasis is placed on critical thinking, evidence-based analysis, and historical inquiry to help students understand how issues of power, identity, and representation have influenced the course of human history and continue to shape the modern world.

Intro to Business & Entrepreneurship (Semester Course)

This is a course designed for juniors and seniors (11th and 12th graders) which immerses students in the fundamentals of business ownership, management, and entrepreneurship while guiding them through the development of a fully articulated plan for their own startup. Students explore key areas such as types of business ownership, employment regulation, human resource management, organizational structure, employee behavior, and core financial concepts, including accounting fundamentals, basic financial statements, and estimating start-up and operating costs. The course also examines business trends, site selection, marketing and branding, pricing strategies, competitive analysis, and SWOT analysis to help students understand how successful ventures position themselves in the marketplace. To reinforce classroom learning, students participate in off-campus visits to businesses and organizations that illustrate the concepts studied in class. Throughout the semester, they apply their learning in a hands-on, project-based format as they design, refine, and present a comprehensive business plan for a product or service of their choice, building practical skills and a deeper understanding of what it takes to launch and manage a successful business in a dynamic environment. This course also serves as the cornerstone course for any student enrolled in TMI's Business Pathway.

The Holocaust: History and Historians

The murder of six million European Jews by the Nazis and their allies during the Second World War remains one of the 20th century's most haunting and most significant events. In this one-semester course designed for 11th and 12th graders, students will be introduced to Holocaust history and historiography, including the origins of modern Antisemitism, German politics of the interwar years, the structure of the Nazi dictatorship, and more. Along the way, students will be asked to engage with historians' arguments about the nature of decision-making within the Third Reich, when what we now call the Holocaust or the Shoah began in earnest, and the culpability of the German population. Students who request this course should maintain an active interest in 20th century history, a desire to read widely, and a commitment to historical thinking.

Social Studies (cont.)

The Legal Environment of Business (*Spring Semester*)

Prerequisites required

The Legal Environment of Business introduces students to the legal and ethical frameworks that shape modern business practice. Students examine the sources and functions of law, the court system, contracts, torts, employment law, and government regulation of business. Emphasis is placed on managerial decision-making, ethical reasoning, and the practical application of legal concepts to real-world business scenarios. Through case studies, discussion, and problem-solving, students develop the knowledge and skills needed to recognize legal issues, evaluate risk, and make informed, ethical decisions as future business owners, managers, and professionals.

The Second World War

The Second World War is a survey course on the 20th century's single most important and consequential event. In this one-semester elective designed for 11th and 12th graders, students will be introduced to an overview of the war's origins, its key battles, life on the homefronts of belligerent nations, the experiences of frontline soldiers, the war's most significant legacies, and more. Students who request this course should maintain an active interest in 20th-century history, a desire to read widely, and a commitment to historical thinking. No purchases are required; readings will be provided by the instructor.

U.S. History

This two semester survey course introduces eleventh-grade students to the political, economic, diplomatic, and social development of the United States. The two semesters will consist of thematic units such as identity, expansion, foreign affairs, immigration, civil rights, and politics over the course of American history from colonial times through to present day. Students will work to draw lessons for life in modern America from the wealth of history the country has already undertaken. There is considerable emphasis on writing and research skills.



Why War (*Spring Semester*)

War is a recurring and ubiquitous human phenomenon that has existed throughout history. This course is offered to juniors and seniors (11th and 12th graders) in order to understand why humans have been unable to coexist harmoniously. We will question what exactly war is and examine how warfare is practiced. Why do societies resort to war over diplomacy? Blood, battles, and brutality have historically been romanticized throughout history, but how effective are military exploits at accomplishing goals? How and why do empires rise and fall? This course will examine warfare in the ancient and modern world, requires student maturity due to the difficult nature of the topics, and emphasizes why war happens. To understand war, this course will use a cross-cultural approach to the study of war throughout history using both archaeological and textual sources. This class for is students in 10th – 12th grade, will have a heavy focus on battle simulations, historical gaming, and the methodology of all war.



World Language

AP Latin

Prerequisites required

This course is designed to prepare students for the AP Latin Exam. AP Latin is equivalent to an intermediate college-level Latin course focusing on the in-depth study of selections from two influential works of Latin literature, Vergil's Aeneid and Pliny the Younger's Letters. Significant time is also dedicated to the reading of nonsyllabus texts chosen by teachers, as well as four course project passages. Students will also place these texts in a meaningful context, which will help students develop their critical, historical, and literary sensitivities. Throughout the course, students will consider the main ideas, effects or purposes, and points of view expressed in these works to gain a deeper understanding of the content and culture in which they were created.



AP Spanish Language and Culture

Prerequisites required

This course is designed to prepare students for the AP Spanish Language and Culture Exam. Emphasis is placed on reading comprehension, formal writing, and on the development of oral proficiency in Spanish. The course covers these themes: family and communities, personal and public identities, beauty and aesthetics, science and technology, contemporary life, and global challenges. Instruction ranges from applying interpersonal, interpretive, and presentational modes of communication to broader discussions of the themes.

AP Spanish Literature and Culture

Prerequisites required

This course is designed to prepare students for the AP Spanish Literature and Culture Exam. Emphasis is placed on critical reading and written analysis of various types of Spanish literature including: novels, essays, poetry, plays, and short stories from various Spanish and Latin American authors.

Introduction to Medical, Scientific and Legal Terminology (Semester Course)

Explore the fascinating origins of the words that shape the languages of medicine, science, and law. In this one semester course, students will uncover the Greek and Latin roots, prefixes, and suffixes that form the foundation of today's professional vocabulary. Through interactive word analysis and hands-on practice, students will learn how to decode and build complex terms used in these fields. This course is an excellent foundation for students interested in pursuing future studies or careers in healthcare, research, or law. No prior knowledge of Latin or Greek required.

Latin I

Step into the world of ancient Rome! In this two-semester journey, students learn to read and understand Latin through hands-on mastery of basic grammar, vocabulary, and translation. Along the way, they explore Roman art, architecture, literature, and mythology, gaining insight into the people who shaped Western civilization. From Latin roots in our language to Roman ideas that still echo today, this course reveals how the ancient world continues to live all around us.

Latin II

Prerequisites required

Take your Latin to the next level! In this two-semester course, Latin II builds on foundational skills to read adapted Latin texts and explore the rich history, mythology, and culture of the ancient Roman world. Master advanced grammar, expand your vocabulary, and uncover how Latin continues to influence English and modern thought—all while sharpening critical thinking and analytical skills and strengthening your English vocabulary. Uncover the roots of modern culture and see how a “dead language” still speaks powerfully today.

World Language (cont.)

Latin III

Prerequisites required

This two-semester course builds on the linguistic and cultural foundations established in Latin I and II, guiding students to advanced mastery of Latin grammar, vocabulary, and syntax. Through the study of authentic, unadapted texts, students deepen their understanding of the language while exploring the rich historical, literary, and cultural context of the ancient Greco-Roman world. The course emphasizes analytical reading, precise translation, and appreciation of classical literature, preparing students to engage confidently with Latin texts and to recognize the enduring influence of Roman civilization on language and culture today.



Latin IV Honors

Prerequisites required

This two-semester course continues and extends the foundations established in Latin I-III with emphasis on appreciation of authentic classical literature from prominent authors of the late Roman Republic and early Empire, including such prose authors as Caesar and Cicero, among others, and such poets as Catullus, Vergil, Horace and Ovid. The historical, cultural, and literary context of each author will be highlighted. Studies in Latin meter accompany the poetry reading and analysis. This course serves the dual purpose of preparing students for the rigor and attention to detail required to be well prepared for the AP Latin course as well as providing an enrichment course for those who prefer to pursue further Latin study without the restrictions of the AP Latin syllabus. Accordingly, adjustments will be made by the instructor in order to meet student needs.

Spanish I

This course focuses on the introduction and development of interpersonal, interpretive, and presentational communication skills in Spanish at a novice mid-level according to the ACTFL standards. The students develop these skills through proficiency-oriented language instruction, which involves providing personalized and comprehensible input through stories, questioning, and readings, so that the brain acquires Spanish more naturally.

Spanish II

Prerequisites required

In this intermediate Spanish course, students strengthen their ability to communicate and connect with others in Spanish—speaking, understanding, reading, and writing with greater confidence. Using stories, conversations, and authentic readings, students acquire the language naturally while exploring the diverse cultures of the Spanish-speaking world. Through engaging, real-world practice aligned with ACTFL standards, students build the skills to express themselves clearly and creatively in Spanish.

Spanish II Heritage

Prerequisites required

This course is for 9th-grade students who are Spanish heritage speakers. The course focuses on mastering proficiency and developing critical thinking. The students in this course will develop their writing skills in Spanish, understand the grammar in context, and broaden their vocabulary. Prerequisite: Spanish I Heritage, dual-language program, or heritage speakers

Spanish III

Prerequisites required

This course focuses on the development of interpersonal, interpretive, and presentational communication skills in Spanish at an intermediate high level according to the ACTFL standards. The students develop these skills through proficiency-oriented language instruction, which involves providing personalized and comprehensible input through stories, questioning, and readings, so that the brain acquires Spanish more naturally.

World Language (cont.)

Spanish IV Honors

Prerequisites required

This course focuses on mastering proficiency in the Spanish language and developing critical thinking skills. The students will be able to communicate more effectively in Spanish within personal and professional settings and will gain a better understanding of the Hispanic culture. The class is conducted completely in Spanish.

Spanish V Honors

Prerequisites required

This course explores the rich cultural heritage and artistic expression of Spain and Latin America through the lens of the seven arts: literature and poetry, painting, sculpture, music, dance, architecture, and cinema. Students will examine each art form within its historical and cultural context, engaging in analysis and critique of literary works, cinematic pieces, and artistic movements. Emphasis is placed on developing an appreciation for artistic techniques, structures, and styles that have shaped Spanish and Latin American culture. Students will further develop their communication and writing skills while applying their knowledge in the seven arts and art appreciation.

Religious Studies

Introduction to the Bible (*Semester Course*)

This course explores the Hebrew Scriptures (Tanakh/Old Testament) and the Christian Scriptures (New Testament) alongside other early Christian writings. Students will engage with these texts through historical, literary, and philosophical perspectives, developing "biblical literacy" while examining their relevance to modern ethical, metaphysical, and cultural issues. The course fosters a critical yet respectful approach to understanding the global influence of these ancient texts.

Philosophy of Human Flourishing (*Semester Course*)

Philosophy of Human Flourishing is a foundational course designed to explore what it means to live a good and purposeful life. Drawing from diverse philosophical traditions and religious worldviews, the course examines ethical systems, concepts of justice, happiness, authenticity, and ultimate concern. Students will engage with ideas from Taoism, Confucianism, Stoicism, existentialism, and more, alongside influential thinkers such as Plato, Rawls, Nietzsche, and Tillich.

Philosophy of Human Flourishing (cont.)

The course emphasizes critical thinking and philosophical inquiry, encouraging students to analyze primary texts, construct logical arguments, and reflect on ethical dilemmas, including contemporary challenges like AI and human labor. While non-dogmatic in approach, the course integrates elements of Episcopal identity, fostering both intellectual growth and spiritual reflection.

This shared ethics course serves as a cornerstone of the religious studies curriculum, preparing students to navigate complex moral landscapes and contribute thoughtfully to the world. To meet TMI Episcopal's religion graduation requirement, students must take and earn 0.5 credit from this course.



Religion in Global Context (*Semester Course*)

The goal of this course is to deeply explore several of the Great Religious Traditions which have shaped human cultures and nourished the lives of countless persons across centuries of history. The main religious traditions that we will cover are Hinduism, Buddhism, Chinese Religions, Judaism, Christianity, Islam, and Secular traditions, as well as exploring some of the smaller religious movements. We will be guided in our study of these texts by our textbook, by hands-on class activities, presentations, discussions, and reading and interpreting sacred texts. We will examine both similarities and differences among these various religious traditions, as well as their ongoing influence in the world today. Our focus will be on gaining an accurate understanding and respectful appreciation of the basic beliefs and practices of the world's major religions, and cultural fluency in other ways of life. This course is one semester long and open to Upper School students in grades 9-12.

Fine Arts

Advanced Digital Music Composition

Prerequisites required

Advanced Digital Music Composition takes the fundamentals from Digital Music Composition and focuses on the production and recording side of music composition. Students will learn how to use advanced digital audio workstations such as FL Studio, Pro Tools, and more. Advanced Music Composition students will work alongside beginner Digital Music Composition students to help them with music theory fundamentals and basic usage of simple DAWs. Advanced Digital Music Composition students will work to create not only compositions, but longer format creations such as “extended play” or “EP” collections of their music.

AP 2D Art & Design

Prerequisites required

AP 2D Art and Design is a rigorous, college-level course that challenges students to explore photography through the elements of art, principles of art, and creative experimentation. At the end of the course, students will submit a comprehensive portfolio, representing a major time commitment and level of accomplishment beyond typical high school art courses. Success requires persistence, creativity, and independent artistic thinking.



AP Drawing

Prerequisites required

AP Drawing is a college-level course that challenges students to develop execution, technique, and talent in their work. Through observation, imagination, and experimentation, students push their artistic limits while refining personal style.

Students will submit a comprehensive portfolio at the end of the course, reflecting a major time commitment and achievement beyond typical high school art classes. Success requires focus, persistence, and bold, expressive work.

Ceramics I

Prerequisites required

During this course, students will explore and better understand the medium of clay through hand-building techniques, sculpting, and use of the potter’s wheel. Students will work with both the functional and sculptural aspects of ceramics. They will experiment with a variety of glazing techniques, glazes and textures.

Ceramics/Sculptural Design 2 Honors

Prerequisites required

In this Honors Level Sculpture Course students will further explore the medium of clay along with a variety of other sculptural mediums, to envision, design and build a unique body of sculptural work. Students will focus on both the functional and sculptural aspects of ceramics and 3 dimensional design.



Fine Arts (cont.)

Ceramics/Sculpture Design 3 Honors

Prerequisites required

In this Honors Level Sculpture Course, students will further explore the medium of clay along with a variety of other sculptural mediums, to envision, design and build a unique body of sculptural work. Students will focus on both the functional and sculptural aspects of ceramics and 3-dimensional design. This course requires time and commitment.

Digital Musical Composition

This class is intended to explore individual and group creativity. The course will utilize various songwriting and music editing applications so that students will be able to create, edit, and record their own compositions. The ability to play an instrument is not a requirement for the class. The first part of the course will focus on the Elements of Music which will include a unit on Form (the structure of a piece of music), and how it is important to have a “blueprint” prior to beginning an original composition. From there, the students will begin guided exercises in creating short pieces of music, gradually moving into more involved forms, and creating music with less guidance from the instructor and more creativity from each student. The overarching goal is to enable students to create their own unique compositions. We will also use the recording studio in the Walker Innovation Center so that each student will have a recorded copy of their compositions.

Drawing & Painting I

Prerequisites required

Drawing and Painting 1 continues the exploration of visual ideas and techniques established in Introduction to Art & Design. This course will focus on drawing and painting primarily from observed motifs and nature. Focus will be placed on learning to see and translate visual relationships on a two dimensional surface applying the formal elements that provide the basis for creative visual expression and communication: line, shape, form, perspective, value (shading), texture, color theory and the dynamics of composition. During the second semester of painting, students explore basic principles and practices of painting, including color theory, various painting techniques, and different painting styles. Materials explored in this course range anywhere from graphite, charcoal, pastel, oil pastel, watercolor, ink wash, collage, to acrylic paint and oil paint. Students will learn about paper, canvas preparation, as well as how to work from on easel.

Drawing and Painting II Honors

Prerequisites required

The primary goals of this course are to develop a stronger understanding of materials and techniques, develop more individual and far-reaching sources, become more ambitious, learn from one another and develop more faith in imagination. Drawing & Painting 2 expands on drawing and painting from observation and encourages students to build on the drawing fundamentals learned in Drawing & Painting 1. It challenges each student to develop more independence, rigor and voice in art-making. Project assignments along with precedents are explored in this course. A precedent identifies a unique interest each student has in a given artist(s). At the instructor’s discretion, critical use of photographs and other second-hand sources of imagery are available as reference material.

Drawing and Painting III Honors

Prerequisites required

The primary goals of this course are to develop a stronger understanding of materials and techniques, develop more individual and far-reaching sources, become more ambitious, learn from one another and develop more faith in imagination. Drawing & Painting 3 expands on drawing and painting from observation and encourages students to build on the drawing fundamentals learned in Drawing & Painting 1 and 2. It challenges each student to develop more independence, rigor and voice in art-making. Project assignments along with precedents are explored in this course. The focus is on developing a consistent body of work that prepares the student for college and beyond. At the instructor’s discretion, critical use of photographs and other second-hand sources of imagery are available as reference material.

Introduction to Art and Design

This course provides a survey of media with projects based on the elements of design, color use and composition. The course is designed to help inspire creative thought and self-expression in the students. The class includes instruction and projects in painting, collage, sculpture, printmaking and introductory photographic practices. In this course students gain a foundation in the visual language which prepares them for the more advanced arts courses. This course is required for Ceramics, Drawing and Painting, Photography, and Yearbook.

Fine Arts (cont.)

Photography I

Prerequisites required

This course is an introduction to basic digital photography and image processing techniques with emphasis on the aesthetic qualities of photography. Students will learn technical aspects of digital photography, including camera function, basic Photoshop processing, image manipulation, digital workflow, and color management. Students will explore visual language in a digital context, and will learn how to practice reading and thinking critically about the digital messages and imagery they see daily. A Digital Single Lens Reflex (DSLR) camera is required.

Photography II Honors

Prerequisites required

This course offers students the opportunity to explore Photography within a fine arts context. Photographic processes include film shooting processing, digital image manipulation, inkjet printing, alternative photographic methods, and printing techniques. In this course, students will develop an understanding of their own creative process and photographic interests. Students will produce photographic projects based on themes such as documentary, still-life, portraiture, story-telling, abstract, and photo-essay. The course will conclude with students producing a final project portfolio. A Digital Single Lens Reflex (DSLR) camera is required.

Production Technology

Production Technology will cover all areas of theatrical design including: Lighting design, sound design, costume design, properties and scenic design. The course will examine all elements and contributions designers make to the theatre process and production. Students enrolled in this course will have mandatory lab hours with the expectation that they design for a show, serve on a crew and/or support the building and operations –assisting with the running crew, building sets, painting, hanging, focusing and programming lights.

Symphonic Band I, II, III (Honors), and IV (Honors)

The Instrumental Music Department offers students the opportunity to work on their skills as a musician through class instruction and master classes. The fundamentals of music reading, tone production and technique are taught within the context of rehearsals. Performance opportunities include Chapel, Pep Rallies, special events around campus and two formal concerts. The student will also participate in Concert Contest. Private lessons are strongly encouraged. This course also has a before-school requirement where every student attends full band rehearsals.

Pre-Requisite(s): Prior experience on an instrument and reading music is required. Students who are not currently enrolled are accepted by audition only. Enrollment is limited to band instruments only. Band instruments include Flute, Clarinet, Oboe, Saxophone, Bassoon, Trumpet, French Horn, Trombone, Tuba and Percussion.

Theater I

Theatre Arts I is designed to provide the student with an exciting overview of live theatre by closely examining the elements of playwriting, acting, directing, design, dance, movement, voice and speech. The course will demonstrate how these elements are first created by various artists and effectively brought together within a process that ultimately leads to a live theatre production. To be sure, you will clearly understand what is involved in producing a play from start to finish. Beyond the many elements and contributions that lead toward the final product, we will also look at the employment opportunities in theatre. The theatre is a safe and creative laboratory where one may study humanity. A well-produced theatre experience may potentially change lives by questioning individual values, life pursuits, relationships, morals, ethics, opinions, and general attitudes governing our human behavior. Many plays of substance ask us to deeply evaluate our own culture, our society and the individual roles we play in a community. When you observe a character on stage, you must ask yourself, “How would I respond if I were in the same situation?” Therefore be prepared to question and learn something about yourself during the study of theatre.

Fine Arts (cont.)

Theater Production I

Theatre Production will be taught as a college preparatory course. By registering for this advanced class, you have essentially confirmed your own interest in this art form and committed yourself to a more challenging regimen of enriched training in the discipline of theatre. Additionally, the class will provide a heightened challenge for students through the study of proven acting techniques, acting styles, vocal exercises and movement systems--combined with the exploration of modern and classical texts. Students will also gain extensive knowledge in directorial concepts, scene scoring, text analysis, design conferencing, stage management protocols, resume preparation, auditioning and interviewing. Expectations will be higher and the work will be more difficult than the curriculum of Theatre Arts I & II.

This class will serve as a laboratory for all students to refine their skills and to share research discoveries. Students in this course will encounter sincere feedback from the instructor throughout the semester. A formal assessment of your class work and stage work will occur at mid-term and again at the end of the school year. Videotaped performances (of class work and stage work) will be reviewed. Seniors are expected to produce and submit an audition video for ARTS scholarships. Juniors are strongly encouraged to produce a “practice” video for ARTS. Some select students will participate in TAPPS speech tournaments as an added opportunity for performance.

Theater Production II, III (Honors), and IV (Honors)

Prerequisites required

High School Theatre Production is a year-long course that immerses students in the full theatrical process—from acting and ensemble work to technical design, performance, and creative experimentation. Students will engage in multiple productions, workshops, and creative labs that challenge them to explore character, collaborate as artists, and bring bold ideas to life on stage.

This course is designed for students to develop as versatile theatre artists, mastering performance, design, and technical skills while building a professional rehearsal mindset. Students will take part in three major productions: a large-scale fall musical, a winter experimental one-act (*The Lab*), and a spring vignette play (*All in the Timing* by David Ives).

Yearbook I

Prerequisites required

Students in this course produce TMI’s annual yearbook. They are responsible for page layout, design of the book, photography, image cropping and editing, writing copy, desktop publishing (InDesign, Photoshop, iPhoto) and all other aspects of the production process. Students enrolled in the course are expected to attend out-of-class work sessions after school and on weekends as necessary to meet production deadlines. Class size is limited; instructor approval and completion of application is required. The application process is competitive and based on GPA, experience, and teacher recommendations. Applications must be turned in prior to course selection. Commitment to at least three years of this course is recommended.

Yearbook II and III Honors

Prerequisites required

Students in this advanced course continue to produce TMI’s annual yearbook. They are responsible for page layout, design of the book, photography, image cropping, and editing, writing copy, desktop publishing, and all other aspects of the production process. Students must have a working knowledge of layout and design programs such as Adobe InDesign, Photoshop, and iPhoto.

Students enrolled in the course are expected to attend out-of-class work sessions after school and on weekends as necessary to meet production deadlines. Class size is limited, and prior instructor approval is required. The application process for Yearbook Staff is competitive and based on GPA, experience, and teacher recommendations. Continued commitment to two years of this course is recommended.



Innovation and Design

Digital Marketing (Semester Course)

Digital Marketing is an interdisciplinary course that offers a comprehensive overview of the essential elements and skills for effective marketing in the digital age. This course is at once artistic, visual design and data-driven strategy with an emphasis on collaboration, communication, and critical thinking. Students will engage in project-based learning experiences that bridge theoretical concepts with real-world applications, gaining hands-on experience both as individuals and as part of an agency. Opportunities for collaboration beyond the classroom will allow students to connect with other disciplines within the TMI community, applying their skills in dynamic, authentic contexts.

Key topics: Key Topics: Foundational Concepts of Marketing, Brand Development, Web Design, SEO, Strategy, Content Creation, and Digital Platforms/Social Media.

Innovation, Design, and Technology (Semester Course)

This hands-on, project-based course immerses students in the principles of human-centered design while introducing them to cutting-edge technology and tools like 3D printers, laser cutters, and vinyl cutters. Students will gain practical experience using professional-grade software such as OnShape and Fusion 360 to bring their ideas to life. The class emphasizes experiential learning, with students working in teams to design and fabricate solutions for real-world challenges faced by organizations and individuals within the TMI Episcopal, San Antonio, and broader community.

Beyond fabrication, students will explore new and emerging technologies that are shaping the world today and will define the future they will inherit. Through in-depth discussions and hands-on exploration, students will learn to navigate these innovations with confidence and develop a deeper understanding of their societal, ethical, and practical implications. This course empowers students to become thoughtful, capable leaders who can leverage technology to create meaningful change.

Introduction to Engineering and Computer-Aided Design (Fall semester)

Introduction to Engineering and Computer Aided Design (IECAD) is a concentrated, semester long experience that centers on building strong industry CAD skills from day one. Students spend the majority of the course learning professional 3D modeling practices, creating precise digital parts and assemblies, and producing industry level documentation that reflects real engineering standards. Alongside this CAD focused training, students explore introductory engineering concepts that support their modeling work, including the engineering design process, problem solving methods, and the role of different engineering fields. Learners also gain access to the Walker Innovation Center's 3D print farm to transform their digital models into physical prototypes and deepen their understanding of design intent. As the required prerequisite for Principles of Engineering, this course provides a focused and high-impact introduction for students who want a genuine CAD course that prepares them for advanced work in the Engineering and Design Pathway. This course begins the engineering branch of the Engineering and Design Pathway.

Principles of Engineering (Spring Semester)

Principles of Engineering (POE) builds on the technical foundation established in Introduction to Engineering and CAD and challenges students to apply their skills in deeper, more analytical ways. This concentrated, semester long course introduces students to essential engineering principles through a balanced mix of theory, calculation, and hands-on application. Learners explore mechanical advantage, mechanisms, energy and power systems, fluid behavior, and the fundamentals of kinematics and introductory dynamics. Students bring concepts to life by designing and constructing working prototypes that demonstrate real engineering function and problem solving. As a core requirement in the Engineering and Design Pathway, this course prepares students for advanced electives and provides a strong understanding of how engineering principles translate into practical, innovative solutions. This course is the 2nd element of the engineering branch of the Engineering and Design Pathway.

Innovation and Design (cont.)

Architecture and the Built Environment I (Fall semester)

Architecture and the Built Environment I is a concentrated, semester-long introduction to architectural and civil design that places significant emphasis on learning industry level architectural CAD tools. Students spend a substantial portion of the course building foundational proficiency in professional digital modeling platforms, drafting workflows, and technical documentation practices used throughout the architecture and civil engineering fields. Alongside this intensive software focused training, students explore the history of architectural styles, examine how design has evolved across cultures, and study how architects and civil engineers work together to shape the built environment. Learners apply their skills through both digital and physical modeling, using the Walker Innovation Center's 3D print farm and laser cutters to create residential and commercial scale models that reflect real design intent. The course highlights style, site considerations, and human centered design. Architecture and Built Environment I is the first course in the ABE sequence and provides a rigorous, skill driven pathway option for students interested in architecture, civil engineering, and the broader study of the built environment. This course begins the architecture branch of the Engineering and Design Pathway.

Architecture and the Built Environment II (Spring semester)

Architecture and the Built Environment II builds on the modeling, design, and architectural history foundations established in ABE I and extends student learning into larger scale systems that shape communities and cities. Students continue developing their skills using industry architecture tools as they create more complex digital models and document their designs with greater precision. This course introduces students to urban design and city planning principles, including zoning concepts, transportation networks, utilities, community development, and the integration of public spaces. Learners examine how architects, civil engineers, and planners collaborate to create sustainable and functional built environments. Through both independent and collaborative team projects, students design neighborhood scale and citywide models that reflect real world planning challenges and design thinking. Architecture and Built Environment II gives students an understanding of how design decisions influence the built environment at multiple scales and prepares students for advanced pathway work in architecture, engineering, and planning. This course is the 2nd element of the architecture branch of the Engineering and Design Pathway.

Project Management and Human-Centered Design (Semester course)

In this course, students will become familiar with different ways of exercising leadership, their own strengths and weaknesses, and how they can best work with others in a leadership context. They will learn and apply leadership skills in a hands-on practical way that encourages them to challenge their own beliefs and assumptions about what constitutes leadership. This course offers a comprehensive review of contemporary issues and perspectives on leadership, including multidisciplinary and systems-oriented approaches as well as classic theory, moving to the examination of evolving contemporary beliefs. The emphasis is on the application of concepts in actual leadership settings and situations. Topics include the development of leadership theories, personal assessment and development, values and ethics, motivation, power, followership, group dynamics, multiculturalism in leadership, conflict resolution, performance excellence, and the change process. Through a process of readings, self-discovery, group observations, and case studies, the student will identify, observe, analyze, and apply new leadership behaviors. This course is based on the premise that each student will face a variety of leadership challenges in life. How these challenges are met, whether as a formal leader or a member of a team, can have a significant impact on an organization and on one's career. Learning more about leadership will help every student meet their leadership challenges. The methodology followed by this course will be one of knowledge acquisition, practice, and reflection. The learning objectives are designed to give you insights into leadership theory and how it applies in real-world contexts. Specifically, you will improve and address your skills in key areas of leadership, including change and innovation, reflection, collaboration, communication, conflict, and multicultural awareness.



Leadership

The Upper School JROTC program prepares Cadets for leadership roles, giving practical lessons that help them develop into active and adaptive learners and leaders. The program promotes academic achievement and leadership development, providing cadets with skills that they will use for the rest of their lives.

Academic Approach:

The JROTC program at TMI consists of four levels of Leadership Education Training (LET) instruction. The JROTC curriculum is based on the principles of performance-based, learner-centered education, and is guided by the US Army Cadet Command national standards. Every lesson and assessment actively engages students' higher-order thinking and skill performance. All Levels of LET are also required to do a "Service Learning Project."

Leadership and Training I (LET I)

The mission of LET at all levels is to motivate young people to be better citizens. To accomplish this purpose, the text discusses citizenship, leadership, and a number of other courses designed to help the cadets succeed in high school and after graduation. Cadets wear uniforms every day as outlined in the Cadet Manual. The LET I Level consists of: Foundations of Army JROTC, Being a Leader, Leadership Skills, Know Yourself-Socrates, Learning to Learn, Study Skills, Communication Skills, and Conflict Resolution. Extracurricular activities opportunities include: Color Guard, Armed Drill team, Unarmed Drill team, Raider team, CyberPatriot, Academic Bowl, Orienteering, Physical Fitness team and Rifle team. Cadets will also participate in local community events.



Leadership and Training II (LET II)

The second year of LET is split into units including: Techniques of Communication, Leadership, First Aid, Map Reading, History, American Citizenship, and Role of the U.S. Army. The wearing of the uniform and extracurricular activities with the addition of the Leadership Bowl team are the same as for LET I.

Leadership and Training III (LET III)

The third year of Leadership Education and Training provides additional leadership situations. In this year, students will not only be more involved as teachers and leaders within the Cadet Battalion, but they will also do more studies in the areas of communication, leadership, history, map reading, social issues and technology awareness. LET III Cadets will rotate through 3 non-commissioned officer (NCO) leadership positions in order to evaluate their leadership skills and potential for increased levels of responsibility. Wearing of the uniform and the extracurricular activities are the same as LET II.

Leadership and Training IV (LET IV)

The fourth-year Cadets are responsible for the daily Cadet administration and perform as commanders and staff officers. They act as assistant instructors in some subject areas for other JROTC classes. They continue to develop their leadership skills and plan special unit events such as the military ball and the annual awards Pass in Review. The wearing of the uniform and the extracurricular activities with the exception of the Academic Bowl and Leadership Bowl teams are the same as for LET III.

Athletics

Fitness and Training (*Semester course*)

Fitness Training is a semester-long class that exposes our students to fitness, strength training techniques, speed, and agility. Students will receive a (.5) PE credit for successful completion. This course will be assessed on a pass/fail basis with criteria including daily attendance, punctuality, and dress. Proper exercise technique, implementation of safety precautions, and consistency of workouts will be emphasized. Each class will also include basic components of nutrition education, character development, current research on course concepts, and open forum discussions.

The TMI Pathways Program

About the Program

The TMI Pathway Program offers curated elective sequences for students passionate about Business and Entrepreneurship, Innovation, Design, and Engineering, or Biomedicine. Rather than serving as a make-or-break prerequisite for college admission, these pathways provide a structured opportunity for motivated students to explore their interests deeply alongside their regular coursework.

Each pathway culminates in a significant capstone project, allowing students to demonstrate genuine passion, intellectual curiosity, and sustained engagement—qualities that colleges and universities value highly.

Eligibility and Benefits

Applications open in January of 10th grade. Eligible students must have a cumulative weighted average of 93 (or 95 for Biomedicine) at the time of application and maintain this standard throughout their participation. Program completion benefits include special distinctions on TMI Diploma, participation in specially designed Field Trips and Externships, and eligibility for scholarship awards.

AVAILABLE PATHWAYS

Business and Entrepreneurship

- Intro to Business and Entrepreneurship
- The Legal Environment of Business
- Finance I and II
- Economics or AP Macroeconomics
- Statistics or AP Statistics
- Digital Marketing

Innovation, Design, and Engineering

- Introduction to Engineering and Computer Aided Design
- Principles of Mechanical Engineering
- Introduction to Programming
- Functional Programming
- Project Management

Biomedicine

- AT Biology
- AP Biology
- Biotechnology
- Neuroscience
- Anatomy and Physiology
- Biomedical Innovation

What Makes the Program Special

The Pathways Program is designed to complement rather than replace a diverse, well-rounded liberal arts education. Students continue taking their core academic courses while building specialized knowledge in their area of interest. This approach allows students to:

- Explore a field in depth before committing to a college major.
- Develop real-world skills through hands-on projects.
- Build a portfolio of meaningful work for college applications.
- Connect with mentors and professionals in their field.

