

2019-2020 Curriculum Guide Delaware Military Academy

The Delaware Military Academy, in partnership with cadets and parents, is working to develop our young men and women to be outstanding scholars, leaders and citizens. We call these the “three ships in our fleet.” We are a college preparatory program, but we recognize that not all our graduates will choose to attend a post-secondary school. Our academic program is intended to ensure that every graduate is prepared, and qualified, to enter a 4 year post-secondary program of study.

There are no general courses offered at DMA and all cadets are expected to participate in the college preparatory, honors, AP or dual enrollment programs. Our teachers have high standards in the classroom and cadets are expected to work at a high level each day so they are prepared for the rigors of college, the armed services, and apprenticeship or the corporate world.

Cadets will be strongly encouraged to complete at least two honors level courses while at the Academy. Teachers will maintain high academic expectations in the classroom. After school tutoring is available (see the school calendar for details) for those cadets who require more time or assistance in order to meet course requirements. We are continually reviewing and updating our course offerings to reflect the most recent requirements established by private and public universities and colleges for admission.

DMA’s Post Secondary Statistics (as of the Class of 2018):

- We have graduated 1,567 cadets
- Our graduates have earned a combined 103,293,000 in scholarship monies
- 86% of our graduates go on to a 2-year or 4-year college program
- 11% enlist in the military after graduation
- 3% go directly in to the work force

DMA’s Mission

The Mission of the Delaware Military Academy is to prepare young men and women for their next level of education by providing them with a foundation that leads to good citizenship. Encouraged by military training, learning will take place within an environment that embraces both mental and physical health. This holistic approach to education fosters an understanding of the obligations of citizenship and self-discipline. In addition, cadets are exposed to positive moral ideals while being afforded opportunities to engage in appropriate social activities.

DMA’s Philosophy

- The role of the Delaware Military Academy is to educate the entire cadet, paying particular attention to academic, social and emotional needs.
- An education at the Delaware Military Academy fosters citizenship, leadership and self-discipline.
- Military training gives cadets a sense of responsibility, integrity and morality.

- Responsible citizens have a sense of honor and respect for themselves and for others.
- Hard work, dedication and motivation are essential for learning.
- Cadets, parents and teachers share accountability and responsibility for the cadets' education.
- A safe and enjoyable learning environment promotes positive interaction between cadets and teachers.
- Cadets graduate from the Delaware Military Academy ready to accept an adult role in society.
- Community service builds strong character, unity and a sense of responsibility for others.
- A Delaware Military Academy graduate exhibits creative, critical and independent thinking skills.

Profile of Our Graduates:

Scholarship

- Ability to express oneself effectively in oral and written form
- Ability to think independently
- Proficient in all academic content areas
- Proficient in the use of technology
- Prepared to enter a post-secondary program of study

Leadership

- Ability to give and receive respect
- Ability to set goals, motivate others, and lead by example
- Ability to see a mission through to completion
- Maturity in thought and expression
- Commitment to excellence
- Command presence
- Integrity
- Physical and mental wellness

Citizenship

- Patriotism
- Cultural, political and environmental awareness
- Respect for rules and regulations in the community
- Regard for honesty in self and others
- Compassion and empathy for others
- Sense of duty to serve the community

DMA Minimum Graduation Requirements

DMA Graduation Requirements include the Delaware Department of Education Requirements –

English	4 credits	Electives	3.5 credits
Social Studies	4 credits	Health & Physical Ed.	1.5 credits
Mathematics	4 credits	Naval Science	3 credits
Science	4 credits		
World Language	3 credits		

Upon meeting the Delaware Military Academy standards for graduation and completing the minimum State Standards for a high school diploma a cadet will be eligible for graduation. DMA reserves the right to require additional credits in a specific discipline in response to changes in State Regulations and admission policies for colleges & universities.

State of Delaware Law Graduation Requirements

Source: <http://regulations.delaware.gov/AdminCode/title14/500/505.shtml#TopOfPage>

4.0 Credit Requirements Beginning with the Graduation Class of 2016 (Freshman Class of 2012-2013)

4.1 Beginning with the graduating class of 2016, a public school student shall be granted a State of Delaware Diploma when such student has successfully completed a minimum of twenty four (24) credits in order to graduate including: four (4) credits in English Language Arts, four (4) credits in Mathematics, three (3) credits in Science, three (3) credits in Social Studies, two (2) credits in a World Language, one (1) credit in physical education, one half (1/2) credit in health education, three (3) credits in a Career Pathway, and three and one half (3 ½) credits in elective courses.

1.1 Definitions:

"Credit" means a minimum of 135 hours of actual classroom instruction or a demonstration of competency.

"Career Pathway" means a planned program of sequenced or specialized courses designed to develop knowledge and skills in a particular career or academic area.

DMA Grading Scale:

A	93 – 100	D	70 – 76
B	85 – 92	F	Below 70
C	77 – 84		

DMA Report Cards will be issued within five school days of the close of the semester. Academic Progress Reports will be sent home to parents after the fourth week of each marking period. All report cards and interim reports reflect the number grade, not a letter grade. This ensures that colleges have a clear picture of a cadet's performance and can accurately compare them against peers with different grading scales.

NOTE: No Course-Adds or Course-Drops will be permitted without a conversation with the Dean of Instruction and parent/guardian. The Dean of Instruction will determine if a Cadet may be excused from a specific course due to a documented learning issue. Additionally, conferences may be held to address such events as medical problems or a documented family crisis. Due dates for required work may be extended to allow the student to make up work within an agreed time limit.

Granting Credit

Cadets only receive credits for courses successfully completed. Granting course credit requires a passing final grade (70% or higher) and the satisfactory completion of all major course requirements as well as attendance requirements. Cadets who are failing a course will remain in that course for the remainder of the instructional timeline. Practice in mastery of important skills will help them prepare to succeed when they retake the course. All recovery credit will be completed outside of the school day, at the expense of the cadet.

Cadets must pass all of their classes which require 4 credits to graduate to be promoted to the next academic year. DMA does not offer summer courses to earn credit for a course failed during the academic year. It is the cadet's obligation and responsibility to enroll in a "make-up" course to earn credit(s) for any courses "failed" during the academic year. Credit Recovery may be accomplished by attending summer school at the cadet's district of residence, taking a course at a credit recovery school or a correspondence or online school with approval of the Dean of Instruction and school administration. A certified letter is sent at the end of the school year to any cadet who has failed a course. Seniors who fail a first semester course will get a letter in February as well. This letter includes directions for registering for and completing recovery coursework. All recovery credit coursework must be completed by August 10th.

ACADEMIC LEVEL OF COURSES

HONORS LEVEL COURSES

Cadets are eligible for honors courses beginning in ninth grade. Ninth grade cadets will be considered for honors level courses based on a number of factors including, but not limited to: 8th grade report card and teacher comments, Smarter Balanced test scores, Red Clay end of course assessment results, previous teacher recommendations, or DMA placement testing. The following 9th grade honors courses will be available:

- Honors English Composition
- Honors Civics and Geography
- Honors Biology
- Honors Algebra I (or higher depending on Middle School curriculum)

Cadets may apply to enter the honors program after 9th grade for all content areas where they have achieved a final grade of 90% or higher in the previous CP level course. Once a cadet has entered the honors track, they must maintain an 80% or higher in the honors course to remain in the honors track.

ADVANCED PLACEMENT LEVEL COURSES

Entrance requirements for AP level courses are defined by the Delaware Military Academy and exceptions can be handled on a case-by-case basis.

AP Calculus AB – successful completion of Honors Pre-calculus with an 85% or above OR successful completion of Honors Calculus.

AP Calculus BC – successful completion of AP Calculus BC

AP Biology – successful completion of a Biology course with an 85% or higher – seating will be based on your Biology grades ***ONLY*** and will be limited to the top 30 cadets who request the course.

AP Physics – successful completion of Honors Chemistry with an 85% or higher AND must have a minimum SAT mathematics score of 500 AND a minimum ERW (English, Reading and Writing) score of 500 by the end of junior year.

AP Computer Science A – Cadets are identified by the State for this online AP course based on PSAT test results.

Every cadet enrolled in an Advanced Placement course is required to take the College Board assessment at the end of the school year. The test registration fees are the responsibility of the cadet and financial assistance is available for cadets who qualify for free or reduced lunch.

DUAL ENROLLMENT COURSES (IN CONJUNCTION WITH DTCC)

DTCC sets the admission requirements for all dual enrollment courses and they cannot be negotiated. Cadets may use SAT scores to determine placement or they may take the appropriate DTCC placement test. Cadets have up to two opportunities to obtain the required score on any DTCC placement test. The placement test will be administered at DMA in the spring by the DTCC advisement office. Cadets may not move from the College Prep (CP) level to Dual Enrollment – cadets must successfully complete an honors level course (in the appropriate content area) to be eligible to test for dual enrollment. ***See the course description for specific details about the required placement score results for each course.*** The following DTCC courses are offered at DMA for potential college credit:

College Algebra (MAT180) - This course includes the algebra of functions, graphs and applications, absolute value equations and inequalities, polynomial, rational, radical, quadratic and piecewise functions, and the application of basic right triangle trigonometry.

Prerequisite: SAT Math Score of 500 or at least a 67 on the CPAL Placement test

Precalculus (MAT190) - This course includes a study of exponential, logarithmic and trigonometric functions, vector applications, complex numbers, simple curve sketching of algebraic and trigonometric functions, nonlinear systems, matrix methods, polar coordinates, and properties of conic sections.

Prerequisite: SAT Math Score of 599 or successful completion of MAT 180

Calculus (MAT281) - This course provides students with a study of limits and continuity and differential and integral calculus of single variable functions with applications.

Prerequisite: Successful completion of MAT 190

Critical Thinking and Academic Writing (ENG101) - This college course is designed to teach the concepts of critical thinking and reading skills in the context of written response and essay writing. This course introduces and reinforces the skills necessary to complete academic essays and to respond to diverse texts in meaningful ways.

Pre-requisite: SAT ERW score of 475 or a score of 78 on CPT Reading test **AND** a score of 84 on CPT Sentence Skills test

Composition and Research (ENG102) - This college course is designed to prepare cadets with the writing, research and speaking skills needed for college and beyond. Academic writing and reasoning are mastered for implementation in all college and career disciplines, and to foster lifelong learning.

Prerequisite: ENG 101

US History: Pre Civil War (HIS111) - This course is a survey of colonial America and United States history through 1877. The course covers political, social, cultural, and economic factors that shaped the pattern of life in the United States through the period of Reconstruction.

US History: Post Civil War (HIS112) - This course surveys United States history through 1877 to present. The course covers political, social, cultural, and economic factors that shaped the pattern of life in the United States.

World History II (HIS210) - This course surveys world history from the sixteenth century to the present. Topics include political, social, economic, and cultural developments that shape the patterns of life on the African, American, Asian, and European landmasses.

DUAL ENROLLMENT COSTS

DMA will cover the costs of textbooks for cadets enrolled in dual enrollment courses. If a cadet would like to have a textbook for future use, they should purchase their own copy. This would allow them to write in and highlight in the textbooks. This is entirely optional as a textbook will be provided for classroom/home use but must be returned at the completion of the course. Cadets will pay for dual enrollment courses based on the number of potential credits. All dual enrollment math courses have the potential of earning four (4) credit hours while all other dual enrollment courses for the 2019-2020 school year have the potential for three (3) credit hours. The cost per credit hour will be \$65. Cadets will receive invoices from DMA following the conclusion of the drop/add period. Grant funds are available for cadets who qualify for free or reduced lunch. Credit will be earned based on cadet performance in the class, not a single test.

For comparison purposes, here is the cost (per credit hour) for the local colleges:

DTCC Dual Enrollment @ DMA	\$65.00 per credit hour
DTCC On-campus Enrollment	\$149.50 per credit hour
Wilmington University	\$372.00 per credit hour
University of Delaware	\$510.00 per credit hour

DELAWARE TECHNICAL & COMMUNITY COLLEGE DROP/ADD POLICY

Cadets wanting to drop a course must have a conversation with DMA's Dean of Instruction or Dean of Cadets, and provide written consent from their parent/guardian before a Dual Enrollment course will be dropped from their schedule. The Dean of Instruction will notify DTCC of the decision. The following guidelines apply:

Courses dropped during the first two weeks of the semester will not show on the student's transcript and no grade will be recorded. From the third week through the tenth week of the semester, students may drop a course(s) and receive a "W" grade on their transcript. After the tenth week, courses may not be dropped. Student requests to drop a course(s) after the tenth week, with a grade of "W" for the course, will be considered only under extraordinary circumstances, which must be documented and approved by the DTCC Dean of Instruction or the Dean's designee. Students who do not officially drop a course(s) according to these guidelines, but stop attending the course will receive an Unofficial Withdrawal grade (U) for the course. An Unofficial Withdrawal grade is calculated in the cumulative index as 0 quality points

DMA COURSE OFFERINGS

English/Language Arts

Literature & Composition
World Literature
American Literature
British Literature
Studies in Drama
Journalism I - III
Dual Enrollment ENG101 (3)
Dual Enrollment ENG102 (3)

Mathematics

Algebra I
Geometry
Algebra II
Pre-Calculus
College Math
Discrete Math
Calculus
Dual Enrollment MAT180 (4)
Dual Enrollment MAT190 (4)
Dual Enrollment MAT281 (4)
AP Calculus A/B
AP Calculus B/C

Performing Arts

Marching Band
Concert Choir
Introduction to Theater Arts
Piano Fundamentals I
Piano Fundamentals II

Military Science

Naval Science I
Naval Science II
Naval Science III
Naval Science IV
Leadership Academy (LEAD)
Drill and Ceremonies

Driver's Education

Driver's Education

Social Studies

Civics & Geography
Historical Economics
U.S. History
World History
Real World Economics
Contemp. Political Issues
Sports Psychology
Dual Enrollment HIS111 (3)
Dual Enrollment HIS112 (3)
Dual Enrollment HIS210 (3)

Science

Integrated Science
Biology
Chemistry
Physics
Intro to Engineering
Intro to Forensics
Intro to Food Science
Anatomy and Physiology
Environmental Science
AP Biology
AP Physics
Science Olympiad

World Languages

Spanish I
Spanish II
Spanish III
Spanish IV
Spanish Conv. & Culture

Health & Gym

Physical Education
Health (offered online only)

Business CTE Program

Business Information Tech
Global Business Economics
Business Communications

Additional classes may be added or removed based on demand

DMA Course Descriptions

ENGLISH/LANGUAGE ARTS

Introduction to Literature

Cadets learn to analyze literature and to understand the author's purpose and techniques. They develop their vocabulary skills in preparation for PSATs. In addition to improving reading and grammar skills, emphasis is placed on the writing process which includes prewriting techniques, organizing material, creating first drafts, editing and publishing the corrected final version.

World Literature

This course is a survey of thematically integrated English and multicultural literature. Cadets learn the relationship between the writing of a literary period and the historical and social forces that characterize that time. There are frequent and varied writing experiences exposing the cadets to different written genres, such as; comparative analysis, literary analysis, reflection papers, and persuasive writing. The course focuses on both non-fictional and fictional genres. In composition, the cadets develop skill in writing persuasive essays using the basic techniques of research and MLA formatting. Cadets continue to increase their vocabulary skills in preparation for SATs.

American Literature

In this course, cadets will broaden their understanding of what it means to be an American by experiencing literature from America's earliest beginnings through modern day. The course focuses on critical thinking in response to literature, as well as, emphasizes analytical writing and the research writing process. SAT preparation is addressed through vocabulary practice, exposure to SAT question varieties and review strategies. Finally, it will review essential college- and career- ready skills and knowledge in reading, writing, speaking, and listening.

British Literature

British Literature is a survey course of British Literature and its cultural contexts. Cadets will develop a deeper understanding of British culture, from its earliest beginnings of the English civilization through the modern era, by examining works from a vast variety of British writers and time periods. Cadets will also make relevant, modern-day connections to the texts by relating the studied themes, motifs, and styles to contemporary works of all 21st century mediums. Cadets will also become well-versed in the research and writing process. They will gather extensive knowledge in all parts of the research and documentation process and will be required to submit a Senior Research Paper.

DTCC Critical Thinking and Academic Writing (ENG101)

This college course is designed to teach the concepts of critical thinking and reading skills in the context of written response and essay writing. This course introduces and reinforces the skills necessary to complete academic essays and to respond to diverse texts in meaningful ways.

Pre-requisite: SAT ERW score of 475 or higher OR meet the minimum score on the DTCC Reading (NGR) and WritePlacer (NGW) placement tests. A minimum score is 250 or higher on the NGR and a score of 5 or higher on the NGW test. In lieu of SAT scores, applicants must meet the minimum score on BOTH the DTCC placement tests (NGR and NGW).

DTCC Composition and Research (ENG102)

This course is designed to prepare cadets with writing, research, and presentation skills needed for college and beyond. Academic writing and reasoning are mastered for implementation in all college and career disciplines, and to foster life-long learning. ENG102 students will access, retrieve, and evaluate data from academic secondary sources needed for effective research writing; they will compose and revise information-based documents for diverse audiences and purposes; and they will use strategies necessary to deliver effective oral presentation(s) for diverse audiences.

Prerequisite: ENG 101

Studies in Drama

This course introduces you to one of the major genres of literature: drama. We will study the major elements of drama and will be reading plays of varying length and complexity, some tragic, some comic, and some in between. The readings include dramas that originate from various cultures and time periods. We will also read some supplemental writings about these plays. The aim is to expose you to the variety and quality of theater to help you to understand it, to begin to think critically about it, and appreciate it more fully. The plays we will explore are the following: 12 Angry Men – Reginald Rose; Medea – Euripides; Waiting for Godot – Samuel Beckett; Arsenic and Old Lace – Joseph Kesselring; The Importance of Being Earnest – Oscar Wilde; The Glass Menagerie – Tennessee Williams; A Midsummer Night’s Dream – William Shakespeare; Dial ‘M’ for Murder – Friederick Knot; The Curious Incident of the Dog in the Nighttime - Mark Haddon.

Journalism I - III

In this course, we will use real-life, published products to study the principles and practices of journalism as well as journalism's role in society. Our primary products for this course will be the DMA YEARBOOK (The Porthole) and NEWSPAPER (Scuttlebutt). Techniques, methods, and models guiding the contemporary practice of journalism will be given particular emphasis, and will be implemented in the production of the yearbook and the newspaper. The fundamental skills of a journalist will be introduced, including research and interviewing, fact-checking and editing, style and writing skills, photography, and distribution/business. Guest speakers may include journalists who can speak to specialized areas of journalism. Open to 10 – 12 grades; editorial staff will be selected from the juniors and seniors by the instructor.

Prerequisite: Interested cadets must apply to and be invited into the course.

MATHEMATICS

Algebra I

This is the first course in the mathematics program with a strong focus on Algebra I concepts. In this course, cadets will learn how to perform algebraic manipulation of variable expressions and equations, including the use of absolute value, exponents and radicals. Cadets will learn how to use multiple representations of linear, exponential and quadratic functions to model real life situations and will be able to convert between these representations. Concepts in geometry, statistics, and discrete math are integrated throughout the curriculum, emphasizing the connection between all strands of mathematics. Technology is used on a daily basis to support and improve mathematical understanding. Required for graduation in the State of Delaware.

Geometry

This course is designed to emphasize the study of the properties and applications of common geometric figures in two- and three-dimensions, with particular emphasis on triangles, quadrilaterals, and circles and their three-dimensional extensions. It includes the study of transformations and right triangle trigonometry. Inductive and deductive thinking skills are used in problem solving situations, and applications to the real world are stressed. Required for graduation in the State of Delaware.

Prerequisite course: Algebra I

Algebra II

Algebra II is a continuation of the skills learned in Algebra I. Algebra II also covers piecewise functions, quadratic functions, general polynomial functions, exponential/logarithmic functions, rational functions, trigonometric functions, radical functions, and sequences and series. Problem solving skills are emphasized throughout, as is use of the graphing calculator to expand modeling techniques. Required for graduation in the State of Delaware.

Prerequisite courses: Algebra I and Geometry

Pre-Calculus

This course is offered to cadets who have successfully completed Algebra II. In pre-calculus, cadets will continue their study of functions and build on their algebra skills. There will be a focus on linear, polynomial, rational, exponential, logarithmic, parametric, and trigonometric functions, as well as an introduction to the concept of limits.

Prerequisite courses: Algebra I, Geometry and Algebra II

College Math

This course is offered for cadets who have successfully completed Algebra II but are not planning to pursue a STEM related major in college. The class will strengthen all areas of the cadet's algebra skills and will cover algebra concepts not included in Algebra I and II. In addition, this course will include right triangle trigonometry. Cadets will be prepared for all college math placement tests upon completion of this course.

Prerequisite courses: Algebra I, Geometry and Algebra II

Discrete Math

This course is offered as an elective class for senior cadets only. Discrete math is the study of finite number sets. In this course, cadets will focus on finding practical purposes for several mathematical concepts including graph theory, linear programming, statistics and probability, cryptography, binary coding, geometry, and exponential functions. The concepts that cadets study in this course will involve mathematical applications in business, psychology, architecture, banking, military, journalism, city planning, and computer science.

Prerequisite course: Pre-calculus

Calculus

A college preparatory course that will cover the three main concepts of calculus: limits, derivatives, and integrals. The class will expose each student to the techniques of computation and applications to the real world. Upon completion, students will be well prepared for Business Calculus at the college level.

Prerequisite course: Pre-calculus

AP Calculus A/B

This course is available to junior or senior cadets who have successfully completed pre-calculus. In AP Calculus AB, cadets will continue to apply the behaviors of linear, polynomial, rational, exponential, logarithmic, parametric, and trigonometric functions to calculus-based problems. This course is designed for the higher level thinker, and is taught with the same rigor as a college level course. Cadets will learn the concepts of limits, derivatives, and integrals. All cadets enrolled in this course are expected to take the College Board's Advanced Placement Calculus AB examination in the spring.

Pre-requisite course: Honors Pre-calculus (grade of B or better) or Calculus

AP Calculus B/C

This course is an extension of AP Calculus AB. It includes a review of all of the topics learned in Calculus AB - limits, derivatives and their applications and integration. It then continues with many different applications of integrals as well as different methods of integration. The cadets will delve into differential equations through slope fields and will also study series and sequences. All cadets are expected to take the AP Calculus BC exam at the conclusion of this course.

Pre-requisite course: AP Calculus A/B

DTCC College Algebra (MAT180)

This course includes the algebra of functions, graphs and applications, absolute value equations and inequalities, polynomial, rational, radical, quadratic and piecewise functions, and the application of basic right triangle trigonometry. Cadets must have completed Algebra II to enroll in this course.

Prerequisite: SAT Math Score of 530 or a score of 9-12 on the DTCC Algebra (NGAL) Placement test

DTCC Pre-Calculus (MAT190)

This course includes a study of exponential, logarithmic and trigonometric functions, vector applications, complex numbers, simple curve sketching of algebraic and

trigonometric functions, nonlinear systems, matrix methods, polar coordinates, and properties of conic sections.

Prerequisite: SAT Math Score of 620 OR a score of 250-275 on the DTCC Advanced Algebra and Functions (NGAAF) placement test OR successful completion of MAT 180

DTCC Calculus (MAT281)

This course provides students with a study of limits and continuity and differential and integral calculus of single variable functions with applications.

Prerequisite: successful completion of MAT 190

SOCIAL STUDIES

Civics & Geography

The course familiarizes the cadets with the American political system. They learn that the United States has a federalist, republican, and presidential form of government. Considerable attention is paid to the three branches of government, how bills become laws, and the political processes involved. The cadets will learn about the US Constitution and important constitutional issues as civil rights, the freedoms guaranteed in the Bill of Rights, and the relevant Supreme Court decisions.

In the Geography portion of the course, the cadets develop an understanding of both the spatial and cultural relationships of the major world realms. Emphasis is placed on how different world regions contribute to the richness of human fabric. The cadets learn how humans adapt to such factors as climate and physical topography. The cadets also develop a working mental map of the political and physical features of the world, and of specific nations. Significant attention will be devoted to current events, political developments and trends.

Historical Economics

This course provides cadets with the knowledge and decision-making tools necessary for understanding how a society organizes its limited resources to satisfy its wants. Cadets will understand the choices members of the economic community make. They examine how resources are allocated through market and non-market mechanisms. Topics include: supply and demand analysis; theory of consumer demand; theory of the firm including production and costs, perfect competition, monopoly, monopolistic competition and oligopoly; and public policy analysis of various issues including, but not limited to, taxation, externalities and market structure. Cadets will apply their knowledge to historical examples.

United States History

This course is designed to provide cadets with the analytical skills and factual knowledge necessary to deal critically with the problems and concepts of U.S. History. The course has cadets practice their writing skills and research skills through writing assignments and projects. They will analyze primary source documents and learn how to interpret different historical perspectives and learn the social, political and economic changes that

have occurred throughout United States History. The course provides a balance between factual knowledge and critical analysis of the major concepts and trends that has defined this nation. It will concentrate on the Industrial Revolution (1820s) through the Cold War.

World History

The peoples of the West have had to deal with a number of significant changes to their world view: from a flat to a round world, from a geocentric to a heliocentric universe, from a polytheistic but secular, strong centralized civilization to a monotheistic and devout decentralized feudalism, and from a religiously and spiritually oriented society to a materially - and secularly - oriented one. From these past struggles and how peoples coped with such difficult changes come useful models for coping with the world we are living in. This course is the study of the major cultural, economic, military, political, religious, and social events in Western History from antiquity to the 20th Century. Particular attention is given to the Western societies' contacts with the peoples of Africa, the Americas, and Asia.

Real World Economics

Real World Economics offers a hands-on learning experience with plenty of opportunity to debate mainstream topics through an economic lens, such as: Are ticket scalpers all that bad? Why do cities spend billions of dollars to host the Olympic Games? Why does Eli Manning earn millions of dollars per year while public servants make much less? Through exploring such topics, cadets will gain a better understanding of how the economy influences major aspects of everyday life. The course will conclude with a focus on personal finance.

Contemporary Political Issues

Contemporary Political Issues or C.P.I. is a course centered on the study of events in U.S. History from the end of World War II to Modern Times. Cadets will analyze the key events of this time period to gain an in depth understanding of how these events helped in the shaping of the political, social and economic ideology of our current society. Cadets will be exposed to a variety of resources through their study of one of the most significant time periods in American and World History. All course content is in alignment with the Delaware State Social Studies Standards in History, Economics, Geography, and Civics, along with the Common Core Standards of Reading Literacy in History.

Sports Psychology

This course will provide students with knowledge about psychological factors that affect performance in athletics such as motivation, concentration, focus, confidence, and anxiety. Students will also be introduced to mental skills that can enhance sports performance and make participation more enjoyable, while learning skills that can be transferred to other aspects of their lives. Specific skills to be covered in this class will include: how to set measurable goals and strategies to achieve them, visualization and imagery techniques, leadership, team-building, and how to best cope and recover from injuries. Coaching practices, ethics, practice organization, and the teaching of sport skills will have a strong presence throughout the course. Issues and problems related to the

coaching profession are also covered. Coaching responsibilities related to discipline, sportsmanship, motivation, and the overall development of the student athlete will be addressed.

Requirements for entrance to any of the three DTCC dual enrollment history courses: SAT ERW score of 475 or higher OR meet the minimum score on the DTCC Reading (NGR) and WritePlacer (NGW) placement tests. A minimum score is 250 or higher on the NGR and a score of 5 or higher on the NGW test. In lieu of SAT scores, applicants must meet the minimum score on BOTH the DTCC placement tests (NGR and NGW).

DTCC US History: Pre Civil War (HIS111)

This course is a survey of colonial America and United States history through 1877. The course covers political, social, cultural, and economic factors that shaped the pattern of life in the United States through the period of Reconstruction.

DTCC US History: Post Civil War (HIS112)

This course surveys United States history through 1877 to present. The course covers political, social, cultural, and economic factors that shaped the pattern of life in the United States.

DTCC World History II (HIS210)

This course surveys world history from the sixteenth century to the present. Topics include political, social, economic, and cultural developments that shape the patterns of life on the African, American, Asian, and European landmasses

SCIENCE

Integrated Science

This course consists of three curricular units designed by the Delaware Science Coalition that cover topics in Energy Across Systems, Introduction to Chemistry, and Earth Systems. Cadets will be involved in a hands-on and inquiry based classroom activities throughout the three units.

Biology (REQUIRED)

Biology is a laboratory science course that covers the study of living things. Biology focuses on the study of life by examining the five fundamental concepts of cellular biology, genetics, ecology, evolution and physiology. The scientific process and laboratory skills are emphasized along with biology's connections to other scientific disciplines. Students learn scientific writing skills and also examine current biological issues. The foundation of the class is based upon the standards developed by the Delaware Board of Education. *(A ninth grade honors section is available for cadets who are enrolled in honors algebra I, geometry or algebra II as a 9th graders)*

Chemistry (REQUIRED)

The course will focus on chemistry as a whole as it covers most aspects of inorganic, organic, nuclear, and biochemical studies while reviewing the chemical basics of scientific methods, gas laws, the atom, the periodic table, chemical bonding, reactions, analysis, and electrochemistry. The course will emphasize laboratory studies with individual and team research. Cadets must have sufficient writing ability to participate in projects to present scientific findings in publishable format.

Physics

Physics is offered at three levels: CP, Honors and AP. All three courses are algebra-based and provide an introduction to the major areas of Physics including mechanics, electromagnetism, sound and light. The AP and Honors courses are intended for cadets entering college in any technical area such as engineering, medical, the sciences or construction. The CP course is intended for cadets entering college in a non-technical area and provides skills in problem solving and general understanding of physical phenomenon including cost of energy and renewable energy.

Human Anatomy & Physiology

Human Anatomy and Physiology is a laboratory science course that consists of an in-depth study of all of the major body systems that maintain homeostasis from anatomical and physiological perspectives. Students explore the body through an inquiry approach.

Prerequisite: Successful completion of a biology course.

Environmental Science

Environmental Science is a laboratory science course designed to provide students with the scientific principles, concepts, and methodologies required to understand the inter-relationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them.

Introduction to Forensics (.5 credit 10th grade elective)

Forensic Science is the application of science to the enforcement of laws within the criminal justice system. This course will serve as a comprehensive introduction to the study of forensic science through the integration of historical contexts, the criminal justice system, physical and biological sciences, and ethics. Students will be introduced to the roles of police officers and forensic laboratory technicians during investigations. The course will focus primarily on the collection and analysis of evidence.

Introduction to Food Science (.5 credit 10th grade elective)

This course introduces the field of food science and technology with emphasis on the science behind food technology, the importance of food in providing proper nutrition, including their application to health and well-being of humans throughout the life cycle and the role of diet therapy in the prevention and treatment of disease.

Introduction to Engineering (.5 credit 10th grade elective)

Introduction to Engineering is a half-credit course that provides exposure to engineering principles involved in the design process, properties of materials, failure analysis, cost of

quality and other real-world engineering challenges. As engineering is interdisciplinary, this course explores topics from a wide variety of fields helping students understand the range of potential engineering careers.

Science Olympiad

Cadets will design, build and present projects at the State level competition for Science Olympiad. Cadets may choose from several different areas of expertise in which they compete with other cadets throughout the state. Science Olympiad is open to all cadets with the approval of the Science Olympiad coach (Mrs. Averell).

AP Biology

This course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. Cadets accepting the challenge of an Advanced Placement course will be required to actively participate in all lectures and laboratory activities that are conducted during the year. There is an extensive reading requirement associated with this course. Cadets aiming to take AP Biology must obtain teacher recommendations and successfully complete the assigned summer enrichment. All cadets enrolled in this course are expected to take the College Board's Advanced Placement Biology examination in the spring.

Specific entrance requirements are found on page 5 of this document.

Prerequisites: Biology

AP Physics

AP Physics I is equivalent to a first semester college course in Physics and covers four major areas of study: Linear Dynamics, Rotational Dynamics, Waves & Sound, and Circuit Electricity. Other areas of Physics are introduced for interest and exposure but are beyond the scope of the AP Exam. This course is algebra-based and is intended for students that have not had a prior Physics course or are pursuing careers outside of the pure sciences & engineering. The course designated AP Physics C is calculus-based and is an introductory course for students pursuing careers in the sciences and engineering. Currently AP Physics I is offered as a scheduled class. Independent study is available for the additional content covered in AP Physics C. Both courses include lecture, demonstration, lab exploration and a significant homework commitment. All cadets enrolled in this course are expected to take the College Board's Advanced Placement Physics I examination in the spring.

Specific entrance requirements are found on page 5 of this document

WORLD LANGUAGES

Spanish I

Spanish I is an introductory course that teaches cadets the fundamental skills necessary to complete the three year Spanish requirement at DMA. Cadets will be introduced to basic present tense grammatical structures and extensive vocabulary related to daily social and school interactions. Cadets will develop a basic level of communication skills. Cadets will be able to communicate in the target language using isolated words, formulaic speech, memorized chunks and contextual/rehearsed dialogs. Cadets will also

understand and gain an appreciation for Spanish culture and the benefits of learning a second language.

Spanish II

In Spanish II, cadets continue to develop communication skills (listening, speaking, reading and writing) learning new vocabulary and grammar while reinforcing structures learned in Spanish 1. Emphasis is placed on building complex sentences and reading comprehension with a continuation of the present tense, developing pronoun use, appropriate use of idiomatic expressions and preterit tense conjugations. The class is conducted in Spanish to encourage our cadets to follow directions and interact in the target language. The course also continues to expose Cadets to Spanish language and culture through an overview of geography, celebrations and daily activities.

Prerequisites: Spanish I or Departmental Approval

Spanish III

In Spanish III, cadets continue to develop proficiency in the target language through learning new vocabulary and grammar while reinforcing structures learned in Spanish I and II. Emphasis is placed on reading comprehension and presentational writing with an introduction to the imperfect, future and subjunctive tenses. The class is conducted in Spanish to immerse our cadets in the target language. The course also continues to expose Cadets to Spanish language and culture through an overview of geography, celebrations and daily activities.

Prerequisite course: Spanish II

Spanish IV

Spanish IV is an upper level elective course for college bound cadets. Cadets will be exposed to a variety of literary texts, internet articles and video recordings. Cadets demonstrate proficiency in the target language through learning new vocabulary and grammar while reinforcing structures learned in Spanish I, II and III. Emphasis is placed on written and oral communication with an introduction to subjunctive, conditional and compound verb tenses.

Prerequisite: Spanish III, with an 80% or higher.

Spanish Conversation and Culture

Spanish Conversation and Culture is an upper level elective course. This course may be taken in lieu of or in addition to Spanish IV during the junior or senior year. The course focuses on developing conversational skills while learning about the history and culture of a variety of Spanish speaking countries. Although there will not be a primary focus on grammar instruction, prior knowledge of grammar concepts covered in Spanish levels 1-3 are expected. Cadets will continue to expand their vocabulary through learning new words and colloquial phrases related to each unit. An emphasis will also be placed on learning about specific traditions and celebrations of Spanish speaking countries.

Prerequisite: Spanish III, with an 80% or higher.

BUSINESS CTE PROGRAM OF STUDY

Business Information Technology (BIT)

Business Information Technology (BIT) provides students with an understanding of the role of ethics across professions and provides an overview of information technology (IT) today. Students will consider contemporary IT issues such as security and privacy, the effects of IT on society and the individual, and technological inequality. A culminating project will enable students to demonstrate the knowledge and skills they have developed in consideration of a serious ethical issue that the IT industry faces today.

Global Business Economics (GBE)

Global Business Economics (GBE) introduces economics as it pertains to supply, demand, profit, costs, and markets with a differentiation between microeconomics and macroeconomics. This course focuses on the relationship of labor and business and provides a broad overview of the global economy. Cadets will explore the culture, economics, and the fundamentals of international trade, investments, and finance. Integrated culminating projects provide opportunities for students to analyze relevant financial information and assess specific countries for the potential risks and benefits of doing business globally.

Prerequisite: Business Information Technology (BIT)

Business Communications & Professionalism Elective

Cadets in the Business Communications & Professionalism course will learn key skills, knowledge and tactics that will help them be successful in the business world. Cadets will learn the importance of proper communication skills, interpersonal skills and the value of being able to successfully work on a team. This technology based course will prepare cadets for the interview process and will teach cadets proper business etiquette along with presentation skills. Cadets will fully understand the benefits of networking, mentoring and work related experience. Customer service skills will also be taught as well as personal improvement tactics that relate to goal setting, self-motivation and self-improvement.

Prerequisite: Open to juniors and seniors

PERFORMING ARTS

Marching Band

Band is a performance-based class. Performances at football games, competitions, and parades will be observed as grades. Cadets will also receive points for in-class and after school rehearsals. All performances will be announced at least 3 weeks in advance and are mandatory unless otherwise noted. When the fall marching band season ends, the focus will be on parade work, scales, and lessons on music theory. In the spring, cadets will begin preparation for festival events and parades, as well as prepping for the upcoming fall music selections. A mandatory band camp will be held in August in order to prepare for the marching season.

Performances and rehearsals (including summer band camp) outside of class are REQUIRED for successful completion of this course

Concert Choir

This course is for cadets interested in performing in a vocal music ensemble. Cadets will also learn music basics, such as some music theory and history. As this is a performance-based course, attendance at evening concerts is a mandatory requirement unless otherwise noted. The grading system for the DMA Chorus is a point based system. During the non-performance season, cadets will practice lessons in music theory, sight-reading, and sight-singing and will be assessed with quizzes and tests during that marking period.

Performances and rehearsals outside of class are REQUIRED for successful completion of this course

Piano Fundamentals I and II

This course will focus on the aspects of reading music, music theory, music notation, and learning how to play the piano at the beginner level. This course is for cadets who are interested in learning how to read music and apply that knowledge to the keyboard.

During this course, the cadets learn different musical notations, such as note durations, the staff, major and minor scales, key signatures, etc. Cadets participate in group lessons, as well as individual lessons during class time. Cadets will work at their own pace using the provided piano lesson and theory books. Each keyboard will be accompanied with a set of headphones which the cadet will wear during individual practice time. By the end of this course, each cadet will be able to look at a musical score and be able to play it on the piano, as well as have the tools needed to be able to transfer learned musical knowledge to other instruments, choirs, etc. This course will provide each cadet with their own keyboard, stand, bench, and set of headphones (in-class use only). Once cadets have completed the first level, they are eligible for enrollment in the second level.

Prerequisites: none

Introduction to Theater Arts

This beginner level course is designed to provide students with a fundamental understanding of theatrical performance and drama strategies in a safe and comfortable environment. Students will explore and apply skills in vocal production, physicality on stage and scene work, empowering them to become more comfortable performing in public settings. Exploration of character study will occur through scene work, structured dramatic activities and monologues. Students will learn to self-reflect and reflect on the work of others from an articulate, constructive and informed standpoint.

Prerequisites: none

Physical Education & Health

The overall goal of the Physical Education and Health program at DMA is to provide every cadet with a positive personal attitude, to place emphasis on the need for physical activity, and to stress how it correlates to an individual's total health. Cadets will obtain knowledge and skills necessary for the development of a healthy, physically-active lifestyle, and an understanding that physical activity can provide enjoyment, challenges, self-expression, and social interactions that will last a lifetime. Course content will follow the State of Delaware curriculum standards and guidelines. The Physical Education program will stress biomechanics, continued large and small motor skills learning, social psychology within athletics, self-management, as well as, strength and conditioning.

The Health class is offered as an online courses through Educere, Inc. This course introduces cadets to aspects of physical, emotional, and personal health. Issues about Anatomy, Physiology and Family Life and Human Sexuality will also be discussed.

Driver's Education

The State of Delaware, Department of Education approved Driver Education course is offered to all sophomores (in order of birth date) at DMA. The curriculum is developed by the State and administered by a State Certified driving instructor. Students will receive thirty (30) hours of instruction in the classroom daily during one of two mid-day mini-blocks. Students will then receive seven (7) hours of instruction behind the wheel and seven (7) hours of active observation in the "in-car" training. Students will miss one (1) academic class during that marking period. The State awards one (1) academic credit hour for this course. Upon successfully completion of the course, the student along with a parent or guardian can exchange the completion certificate for a Delaware Graduated Driver License (GDL) at Department of Motor Vehicles (DMV). A written test or driving test is NOT required for the student to obtain their GDL license at DMV. In the event there are not enough seats for all 10th graders to complete the course during the school year, there is an option for completion during the summer following sophomore year at no cost to the cadet.

Prerequisites: Cadets must be passing all but one subject at the start of the course. If they do not meet this requirement, they will not participate in Driver's Education during that term.

MILITARY SCIENCE

Naval Science I

Naval Science 1 introduces cadets to the precepts of citizenship, the elements of leadership, and the value of scholarship in attaining life goals. The course is also designed to engender a sound appreciation for the heritage and traditions of the United States of America with focus on the historical significance of sea power. An emphasis on the development, in each Cadet, of a sense of pride in his/her community, school, unit, associates, and self is a predominant theme throughout the course. These elements are developed from a fundamental level. Participation in numerous extra-curricular activities and field trips sponsored by the NJROTC, is highly encouraged.

Naval Science II

Naval Science II builds on the general introduction provided in Naval Science I and further develops the traits of citizenship and leadership in cadets. It will introduce cadets to the technical areas of naval science study and will engender a deeper awareness of the vital importance of the world oceans to the continued well-being of the United States. Participation in numerous field trips, though not required, is highly encouraged.

Prerequisite course: Naval Science I

Naval Science III

Naval Science III further develops the trait of leadership in cadets and introduces cadets to the vital importance of military justice and international law. Advance instruction in areas of astronomy, meteorology, and navigation skills will compliment instruction in sea power, national security, and naval history. Hands on leadership skills will be developed through cadet involvement in teaching new cadet drill, motivating them in proper uniform care, and managing unit activities. Participation and leadership in extra-curricular activities sponsored by the NJROTC unit, though not required, will be very highly encouraged.

Prerequisite course: Naval Science II

Naval Science IV

Naval Science IV culminates the Naval Science Leadership experience. The course work includes instruction in theoretical and applied aspects of leadership, training, and evaluation of performance. Cadets are taught the techniques to create motivation, to develop goals and activities for a work group, and the proper ways to set a leadership example. The practicum part of the course focuses primarily on practical leadership techniques and implementation. The intent is to assist seniors in understanding leadership and improving their leadership skills by putting them in positions of leadership in the NJROTC unit, under supervision, then helping them analyze the reasons for their varying degrees of success throughout the year. This course is limited to those cadets who have completed the first three Naval Science courses.

Naval Science Drill and Ceremonies

Naval Science D & C is a concurrent course with Naval Science 1 which will provide cadets the opportunity to learn the basics of leadership and discipline as applied to individual and squad military drill and athletic (field day) competitions. The course stresses individual responsibility, teamwork, and high standards of personal conduct and appearance. Military ceremonies; their concept, procedures and implementation; will be taught. Cadets will learn the proper procedures for conducting flag ceremonies, and how to properly display the national colors. Cadets will learn the skills to allow them to participate in unit competition in drill, color guard, honor guard, orienteering, marksmanship, and athletic teams.

Leadership Academy (LEAD)

Naval Science Leadership Seminar provides Cadets with the opportunity to practice the elements of leadership, to expand drill and ceremony skills, and to refine leadership skills. Principles of navigation and basic seamanship will be developed and ethics of leadership will be discussed in seminar discussions of actual leadership dilemmas faced in modern times by junior officers of the armed services. Participation and leadership in extra-curricular activities sponsored by the NJROTC unit, though not required, is very highly encouraged. In addition, Leadership Academy will prepare qualified cadets to better compete for College and University scholarships, ROTC scholarships and/or Service Academy nominations and appointments.