

## **2020-2021 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 2019):**

- We have graduated 1,699 cadets
- Our graduates have earned a combined 117,445,000 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		

### Quality Points (by type of class)

	College Prep	Honors	AP/Dual Enrollment
A	4	4.5	5
B	3	3.5	4
C	2	2.5	3
D	1	1	1
F	0	0	0

DMA Report Cards will be issued within **five** business 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. A copy of our school profile is provided to each college or post-secondary program as well.

**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. The recovery credit does not replace the original grade but the new grade will be added in the calculation of the cumulative GPA.

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 Cadets 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 10<sup>th</sup>***.

## 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 Red Clay end of course assessment results and/or DMA placement testing. The following 9<sup>th</sup> grade honors courses will be available for qualified cadets:

- 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 9<sup>th</sup> grade for all core 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 PSAT10 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:

***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 courses for the 2020-2021 school year have the potential for cadets to earn three (3) credit hours. The cost per credit hour will be \$65.00. 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	\$152.50 per credit hour
Wilmington University	\$381.00 per credit hour
University of Delaware	\$530.00 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, 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**

Introduction to Literature  
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  
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)

### **Business CTE Program**

Business Information Tech  
Global Business Economics  
Entrepreneurship  
Business Communications

### **Social Studies**

Civics & Geography  
Applied 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)

### **Driver's Education**

Driver's Education

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 with a balance of both non-fiction and fictional texts. The course focuses on critical thinking in response to literature, as well as, emphasizes argument analysis and evaluation. Cadets will build their repertoire of rhetorical tools to construct and defend their own arguments through the research and the 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 21<sup>st</sup> 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, 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, including number theory, equations and inequalities, and linear and quadratic functions. In addition, algebra concepts not included in Algebra I and II will be covered. The course concludes with personal finance, including taxes, interest, saving and investing. Cadets will be prepared for all college math placement tests upon completion of this course.

## **Honors 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 AB**

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 BC**

Calculus BC is a college level course that continues to develop the cadet's understanding of Calculus from AB (functions, graphs, limits, derivatives, and integrals) with a focus on advanced techniques of integration, polar and parametric equations, series and sequences, and Taylor and Maclaurin Polynomials. All cadets are expected to take the AP Calculus BC exam at the conclusion of this course.

**Pre-requisite course: AP Calculus A/B**

## **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.

### **Applied Economics**

This course provides cadets with the knowledge and decision-making tools necessary for understanding how a society organizes its limited resources to satisfy unlimited wants. Cadets will understand the choices members of the economic community make. Topics

include: basic economic concepts; supply and demand analysis; comparative economic systems; globalization and trade; and the tools of fiscal and monetary policy. Throughout the course, we will apply the economic principles studied in class to various historical events along with current affairs, both international and domestic. This will not only assist the cadets in seeing economics in action on the global scene, but also help them become informed citizens.

### **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 world have had to deal with a number of significant changes to their world view over time: from the rise and fall of empires, from an age of exchange and encounter to the connecting of hemispheres, from isolation to globalization, and from religiously and spiritually oriented societies to a materially - and secularly - oriented one. This course covers major cultural, economic, political, religious, and social events through the past 1500 years of human history. It will provide cadets the opportunity to see how other cultures have developed and lived, connecting events throughout different world regions over time, as well as drawing connections between world events today and corresponding events of the past. This course highlights the nature of changes in global frameworks and their causes and consequences, as well as comparisons among major societies globally.

### **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 9<sup>th</sup> grader)*

### **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 10<sup>th</sup> 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 10<sup>th</sup> 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 10<sup>th</sup> 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 1**

AP Physics 1 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 with prior Physics exposure and who are pursuing careers in the sciences and engineering. Currently AP Physics 1 is offered as a scheduled class. Independent study may be arranged 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 1 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 I. 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)**

### **Entrepreneurship**

Entrepreneurship (ENT) introduces students to the concept of service as a critical component of a business and an understanding of the substantial role played by entrepreneurs in the national and global economy. Students will understand that the principles of great customer service have wide-ranging implications for all professional endeavors. In addition, students will learn the skills necessary to become entrepreneurs along with the attitudes, characteristics, and techniques that successful entrepreneurs possess. A culminating project provides the opportunity for students to research the market and develop a business plan. Entrepreneurship is the final course in the Business Information Management pathway. The

intended purpose of the pathway is to provide cadets with critical career knowledge through a series of work-based learning activities that are conducted in school, as well as outside the classroom through a 120-hour paid summer internship for those who wish to obtain a nationally recognized certification at the conclusion of the pathway. Completion of the program is validated with a NAFTrack Certification, NAF's student certification assessment system. AOBIM courses are designed to introduce students to a wide array of careers such as general and operations managers, purchasing managers, business operations specialists, and computer information systems managers as they prepare for the eventual entry into the workforce.

**Prerequisite: Business Information Technology (BIT) and Global Business Economics (GBE)**

### **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**

## **PHYSICAL EDUCATION & HEALTH**

### **Physical Education & Health (REQUIRED)**

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.

## **PERFORMING ARTS**

### **Marching Band**

Marching Band is a performance-based class that meets during the first semester. Performances, such as football games, competitions, and parades, will be observed as grades. Cadets also receive points for in-class and after school rehearsal time as well as

through skill based learning assessments. All performances are announced a minimum of 3 weeks in advance and are mandatory unless otherwise noted. At the conclusion of the fall competitive season, focus shifts to improving reading and performance skills as well as preparation for spring parades and future programming. The band participates in festivals and other travel performance opportunities every year. A 2-week mandatory band camp is held the 2nd and 3rd week 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**

## **Driver's Education**

The State of Delaware, Department of Education approved Driver Education course is offered to all 10<sup>th</sup> graders (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 10<sup>th</sup> 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 I 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.

**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.