

2022-2023 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 very few 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, an apprenticeship or the workforce.

Cadets are 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 2021):

- We have graduated 1,971 cadets
- Our graduates have earned a combined 141,747,000 in scholarship monies
- 86% of our graduates go on to a 2-year or 4-year college program
- 10% enlist in the military after graduation
- 4% 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 are more rigorous than the Delaware Department of Education Requirements but encompass all DOE requirements –

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

A minimum of 3 credits in Naval Science is Required to graduate from DMA

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: <https://regulations.delaware.gov/AdminCode/title14/500/505.shtml>

5.0 Credit Requirements for State of Delaware Diploma - Beginning with the Graduation Class of 2019 (Freshman Class of 2015-2016)

5.1 Beginning with the graduating class of 2019, 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 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.

5.1.1 The student shall earn credit upon completion of Mathematics course work that includes no less than the equivalent of the traditional requirements of Geometry, Algebra I and Algebra II courses. The student shall complete an Algebra II or Integrated Mathematics III course as one of the Mathematics credits.

5.1.2 Scientific investigations related to the State Science Standards shall be included in all three (3) Science course requirements. The student shall complete a Biology course as one (1) of the Science credits.

5.1.3 The student shall complete a U. S. History course as one (1) of the Social Studies credits.

5.1.4 During the senior year the student shall maintain a credit load each semester that earns the student at least a majority of credits that could be taken that semester. A credit in Mathematics shall be earned during the senior year. Further provided, a student participating in a dual enrollment course or dual credit course, as defined in 14 **DE Admin. Code** 506 Policies for Dual Enrollment and Awarding Dual Credit, shall be considered to

be meeting the majority of credits, as long as a credit in Mathematics is earned during the senior year.

5.1.4.1 Senior year credits shall include regular High School course offerings, the options available in Section 8.0, or a combination of both.

5.2 World Language:

5.2.1 Students may fulfill the two (2) credit World Language requirement by either:

5.2.1.1 Earning a minimum of two (2) World Language credits in the same language; or

5.2.1.2 Demonstrating Novice-high or higher proficiency level on a nationally recognized assessment of language proficiency, except English, in the skill areas of oral or signed expressive and receptive communication, reading and writing, that uses the levels of proficiency as identified by the American Council for the Teaching of Foreign Language, or as approved for use by the Delaware Department of Education.

DMA Grading Scale:

A	90 – 100	D	66 – 69
B	80 – 89	F	Below 66
C	70 – 79		

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 approximately **five** business days after the close of the marking period. Academic Progress Reports will be sent home or made available to view on HAC 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.

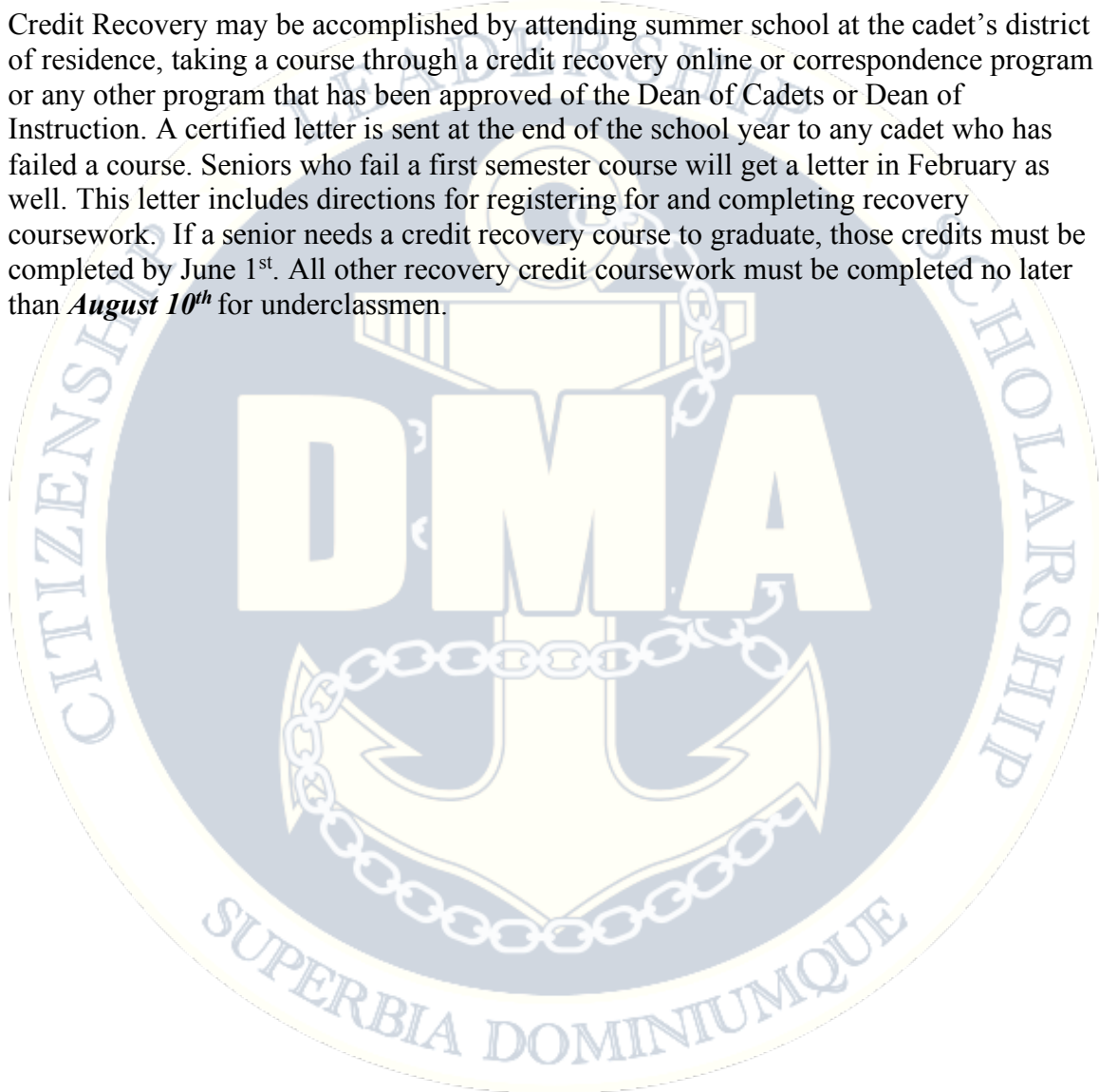
Granting Credit

Cadets only receive credits for courses successfully completed. Granting course credit requires a passing final grade (66% 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 through a credit recovery online or correspondence program or any other program that has been approved of the Dean of Cadets or Dean of Instruction. 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. If a senior needs a credit recovery course to graduate, those credits must be completed by June 1st. All other recovery credit coursework must be completed no later than **August 10th** for underclassmen.



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 9th 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 9th grade for any core content area 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 unless otherwise specified in the course prerequisites.

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 – A final grade of 90% or higher in Honors Pre-calculus or Honors Calculus

AP Calculus BC – successful completion of AP Calculus AB

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.

AP Microeconomics (NEW for 2022-23) – This course is open to 10th, 11th and 12th grade cadets who wish to challenge themselves in a college level course. Priority will be given to rising 10th grade cadets who have successfully completed an honors level course with an 85% or higher.

AP Spanish Language and Culture (NEW for 2022-23) – successful completion of Pre-AP Spanish III with a final grade of 85% or higher OR Spanish IV with a final grade of 85% or higher.

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 (DTCC & WILMU)

The cooperating college program sets the admission requirements for all dual enrollment courses and they cannot be negotiated.. Cadets **may not** move from the College Prep (CP) level to Dual Enrollment unless specifically noted – cadets must successfully complete an honors level course (in the appropriate content area) to be eligible for dual enrollment. ***See the course descriptions below for specific details about prerequisites for each dual enrollment course.*** The following dual enrollment courses are offered at DMA for potential college credit:

Composition I (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: Cadets must have a cumulative weighted GPA of at least a 3.0 or meet DTCC’s minimum required score on the Accuplacer placement test.

Composition II (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.

Pre-requisite: Cadets must have a cumulative weighted GPA of at least a 3.0 or meet DTCC’s minimum required score on the Accuplacer placement test.

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.

Pre-requisite: Cadets must have a cumulative weighted GPA of at least a 3.0 or meet DTCC’s minimum required score on the Accuplacer placement test OR successful completion of a college level course.

General Psychology (PSY121) - This course is a survey of general principles underlying human behavior and mental processes. It includes study of the nervous system, perception, learning, motivation, personality, and psychological disorders. Methods of assessment and research principles are discussed.

Pre-requisite: Cadets must have a cumulative weighted GPA of at least a 3.0 or meet DTCC's minimum required score on the Accuplacer placement test OR successful completion of a college level course.

Introduction to Criminal Justice (CRJ101) - This course provides an examination of the history and philosophy of the criminal justice system. The structure and function of law enforcement and the judicial and correctional systems are compared and contrasted with an overview of law and order issues facing the federal, state, and local agencies. Public service careers in the criminal justice system are surveyed.

Pre-requisite: Cadets must have a cumulative weighted GPA of at least a 3.0 or meet DTCC's minimum required score on the Accuplacer placement test OR successful completion of a college level course.

Principles of Management (BBM201) - Effective managers are essential to any organization's success. Managers must pay attention to internal and external factors related to their organization. Managers needs to develop specific competencies relating to the functions of management, which are planning, organizing, leading, and controlling. Competencies include communication skills, planning and administration, promoting teamwork, strategic initiatives, global awareness, and self-management.

Pre-requisite: Cadets must have a minimum cumulative weighted GPA of 2.75 or higher and successful completion or concurrent enrollment in Entrepreneurship.

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 2022-2023 school year have the potential for cadets to earn three (3) credit hours. The cost per credit hour, not course, will be \$70.00. 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. Please see the Dean of Instruction if you think you qualify for a reduced fee for the course.

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

Dual Enrollment @ DMA	\$70.00 per credit hour
DTCC On-campus Enrollment	\$152.50 per credit hour
Wilmington University	\$390.00 per credit hour
University of Delaware	\$540.00 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 assist cadets with notifying 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
Dual Enrollment ENG102

Mathematics

Algebra I
Geometry
Algebra II
Pre-Calculus
College Math
Honors Calculus
Honors Statistics
AP Calculus A/B
AP Calculus B/C

Performing Arts

Marching Band
Concert Choir
Music In the Movies
Piano Fundamentals I
Piano Fundamentals II

Military Science

Naval Science I
Naval Science II
Naval Science III
Naval Science IV

Business CTE Program

Business Information Tech
Global Business Economics
Entrepreneurship
Dual Enrollment BBM201

Driver's Education

Driver's Education

Social Studies

Civics & Geography
U.S. History I (**NEW!**)
U.S. History II
World History
Modern U.S. History
Real World Economics
Sports Psychology
Dual Enrollment HIS111
Dual Enrollment HIS210
Dual Enrollment PSY121
Dual Enrollment CRJ101
AP Microeconomics (**NEW!**)

Science

Integrated Science
Biology
Chemistry
Physics
Environmental Science
Anatomy and Physiology
Honors Anatomy I
Honors Anatomy II
Intro to Forensics
Intro to Food Science
Intro to Engineering
AP Biology
AP Physics
Optimistic Mindset

World Languages

Spanish I
Spanish II
Spanish III
Pre-AP Spanish III
Spanish IV
AP Spanish Lang. (**NEW!**)

Health & Gym

Physical Education
Health (offered online only)

Additional classes may be added or removed based on demand

CURRICULUM AREA (Honors/AP in BOLD)	9TH GRADE	10TH GRADE	11TH GRADE	12TH GRADE
English (4 Credits Required)	English 9 OR Honors English 9	World Literature OR Honors World Lit	American Literature, OR Honors American Lit DTCC ENG101	British Literature, OR Honors British Lit DTCC ENG102
Math (4 Credits Required)	Algebra 1 OR Honors Geometry Honors Algebra 2	Geometry OR Honors Algebra 2 Honors Pre-Calculus	Algebra 2 OR Honors Pre-Calculus Honors Calculus AP Calculus AB	Pre-Calculus College Math OR Honors Statistics Honors Calculus AP Calculus AB AP Calculus BC
Science (4 Credits Required)	Integrated Science 9 OR Honors Biology	Biology OR Honors Chemistry	Chemistry OR Honors Physics AP Biology	Physics Environmental Science Anatomy & Physiology OR Honors Anatomy I Honors Anatomy II AP Physics
Social Studies (4 Credits Required)	Civics & Geography OR Honors Civics and Geography	US History I OR Honors US History I OR AP Microeconomics	US History II OR Honors US History II OR DTCC HIS111	World History OR Honors World History OR DTCC HIS210

CURRICULUM AREA	9TH GRADE	10TH GRADE	11TH GRADE	12TH GRADE
Spanish (World Languages)	Spanish 1	Spanish 2	Spanish 3 OR Pre-AP Spanish III	Spanish 4 OR AP Spanish
CTE Pathway	Business Information Technology	Global Business Economics	Entrepreneurship	BBM 201*
Naval Science	NS1	NS2	NS3 / GYM	NS4 / GYM
Elective Options	Marching Band Concert Choir Piano Fundamentals Music in The Movies	Food Science Forensics <u>OR</u> Engineering <hr/> Online Health Driver's Education <hr/> Marching Band Concert Choir Journalism 1	Piano Fundamentals Music in The Movies Studies In Drama Marching Band Concert Choir Journalism 2	Piano Fundamentals Music in The Movies Marching Band Concert Choir Journalism 3 Sports Psychology Real World Economics Modern US History D/E Criminal Justice D/E Intro to Psychology Optimistic Mindset

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. The course focuses on both non-fictional and fictional genres with the major literature units being Ibsen's *A Doll's House*, Shakespeare's *Julius Caesar*, Camus' *The Guest*, and Golding's *Lord of the Flies*. There are frequent and varied writing experiences exposing the cadets to different written genres, such as; comparative analysis, literary analysis, reflection papers, and argumentative writing. In composition, the cadets develop skills in writing effective thesis statements, learning how to incorporate evidence to support their arguments, using basic research techniques, evaluating the credibility of sources, and formatting in MLA. 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 sampling of literature also includes a broad sampling of voices that not only demonstrates our commonality, but the diversity that defines us as a country. The course focuses on critical thinking in response to literature, as well as, emphasizes argument analysis, evaluation and creation. 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 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.

DMA COURSE DESCRIPTIONS

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; *Arsenic and Old Lace* – Joseph Kesselring; *The Importance of Being Earnest* – Oscar Wilde; *The Glass Menagerie* – Tennessee Williams; *A View from the Bridge* - Arthur Miller; *Dial 'M' for Murder* – Friederick Knot; *The Curious Incident of the Dog in the Nighttime* - Mark Haddon; and *The Spy* - Bertolt Brecht.

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.

Composition I (ENG101)

In this course, students will develop the critical thinking, writing, and research skills necessary to compose academic essays and to respond to diverse texts. Students will develop rhetorical strategies, employing writing processes to compose for a variety of purposes and audiences.

Pre-requisite: Cadets must have a cumulative weighted GPA of at least a 3.0 or meet DTCC's minimum required score on the Accuplacer placement test.

Composition II (ENG102)

In this course, students will expand on the skills learned in ENG101 to develop and enhance writing, research, and speaking skills. Students will complete informative, analytical, and thesis-driven argumentative writing assignments that will require them to read and systematically evaluate a variety of sources and to employ effective research methods to complete a capstone research project. Students will explore and practice research techniques that prepare them for conducting research across academic disciplines and in their careers.

Prerequisite: ENG101

DMA COURSE DESCRIPTIONS

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: 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: 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, and learn about trigonometry. This course is designed to lay the groundwork for Calculus and college math classes." 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: 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

DMA COURSE DESCRIPTIONS

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: Pre-calculus

Honors Statistics

This course is offered to cadets who have successfully completed Algebra II. Upon successful completion of this course, students will be familiar with basic rules of probability and will be able to use them in modeling uncertainty in obtaining and recording data. They will be able to utilize graphical and numerical summaries of data in understanding data generating processes. They will understand the logic of statistical inference and will be able to apply common inferential procedures. Students will be exposed to the computational aspects of statistics as well.

Prerequisite: Algebra I, Geometry and Algebra II

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: A final grade of 90% or higher in Honors Pre-calculus or Honors 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: AP Calculus AB

SOCIAL STUDIES

Civics & Geography

The course familiarizes the cadets with the American political system. Considerable attention is paid to the three branches of government, how bills become laws, and the

DMA COURSE DESCRIPTIONS

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. 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.

United States History I (NEW!)

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 research and writing 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 First Encounters (1500s) through the Civil War (1860s)

United States History II (REQUIRED)

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 research and writing 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 Reconstruction(1860s) through the present day.

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.

DMA COURSE DESCRIPTIONS

Real World Economics

Real World Economics offers a hands-on learning experience with plenty of opportunity to prepare for life after graduation. We will explore topics, such as: behavioral economics and personal finance, past financial crises, and the economic impact of global population. Through exploring such topics, cadets will gain a better understanding of how the economy influences major aspects of everyday life.

Modern US History

The Modern US History class will focus on more current US History from World War II to the 21st century. It will focus on key events, individuals and movements that shape the United States to this day such as Vietnam, the Cold War, the Counter-Culture Movement, Malaise, terrorism, and many other topics. Using a combination of primary source documents, discussions, lectures and visuals, students will receive a more thorough understanding of how America evolved into what it is today. The class will also include discussions and analysis of current events as well. While an elective, this course will still be rigorous and have projects, and plenty of summative and formative assessments.

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.

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.

Pre-requisite: Cadets must have a cumulative weighted GPA of at least a 3.0 or meet DTCC's minimum required score on the Accuplacer placement test.

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.

Pre-requisite: Cadets must have a cumulative weighted GPA of at least a 3.0 or meet DTCC's minimum required score on the Accuplacer placement test OR successful completion of a college level course.

DMA COURSE DESCRIPTIONS

General Psychology (PSY121)

This course is a survey of general principles underlying human behavior and mental processes. It includes study of the nervous system, perception, learning, motivation, personality, and psychological disorders. Methods of assessment and research principles are discussed.

Pre-requisite: Cadets must have a cumulative weighted GPA of at least a 3.0 or meet DTCC's minimum required score on the Accuplacer placement test OR successful completion of a college level course.

Introduction to Criminal Justice (CRJ101)

This course provides an examination of the history and philosophy of the criminal justice system. The structure and function of law enforcement and the judicial and correctional systems are compared and contrasted with an overview of law and order issues facing the federal, state, and local agencies. Public service careers in the criminal justice system are surveyed.

Pre-requisite: Cadets must have a cumulative weighted GPA of at least a 3.0 or meet DTCC's minimum required score on the Accuplacer placement test OR successful completion of a college level course.

AP Microeconomics (NEW!)

AP Microeconomics is a college-level course that introduces students to the principles of economics that apply to the functions of individual economic decision-makers. The course also develops students' familiarity with the operation of product and factor markets, distributions of income, market failure, and the role of government in promoting greater efficiency and equity in the economy. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts. AP Microeconomics is equivalent to a one-semester introductory college course in economics.

SCIENCE

Integrated Science

This course consists of three curricular units designed by the Delaware Science Coalition, which all encompass Energy Across Systems. The units include Introduction to Physical Science, Introduction to Chemistry, and Introduction to 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 Inquiry and Scientific Method, From Molecules to Organisms, Ecosystems, Heredity and Biological Evolution. 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

DMA COURSE DESCRIPTIONS

upon the Next Generation Science Standards. (A ninth-grade honors section is available for cadets who are enrolled in honors algebra I, geometry or algebra II as a 9th 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 the CP and Honors level. All physics courses are algebra-based and provide an introduction to the major areas of Physics including mechanics, electromagnetism, sound and light. The Honors course is 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.

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.

Human Anatomy & Physiology

Human Anatomy and Physiology is a laboratory science course that consists of study of most of the major body systems that maintain homeostasis from anatomical and physiological perspectives. Students explore the body and its functions through an inquiry approach and dissections. This course is introductory, and is recommended for students interested in pursuing a medical career.

Prerequisite: Successful completion of a biology course.

Honors Anatomy I

Honors Anatomy I is a laboratory science course that investigates and studies the structure and function of the human body. Topics covered in this course include Introductory material, Histology and the Integumentary, Skeletal, Muscular and Nervous systems. In addition to case studies, interactive virtual activities, collaboration work and labs, students will engage in dissections of organs. One of the goals in this course is to prepare students with the skills necessary to be successful in future science classes in college and in the medical fields.

DMA COURSE DESCRIPTIONS

Honors Anatomy II

In Honors Anatomy and Physiology II, students continue to investigate and study the structure and function of the human body. Topics include the Cardiovascular, Digestive, Immune, Endocrine, Respiratory and Reproductive systems. Students will engage in larger-scale labs and dissections in addition to interactive notebooks and labs while strengthening their use of anatomical terminology. The course builds upon the knowledge learned in Honors Anatomy I and continues to prepare students for advanced science courses in college and in the medical fields.

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

Forensic Science is the application of investigative science in 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 examples, case analysis, physical and biological sciences, investigative practices, forensic careers and ethics. Students will study the roles of police officers, medical examiners and forensic laboratory technicians during investigations. The course will focus primarily on the collection and analysis of evidence admissible in a court of law.

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.

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 successfully complete the assigned summer coursework. All cadets enrolled in this course are expected to take the College Board's Advanced Placement Biology examination in the spring.

Prerequisites: 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

DMA COURSE DESCRIPTIONS

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.

Prerequisite: 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.

Optimistic Mindset

This course will teach you a set of scientifically-validated strategies for living a more satisfying life. Throughout the course, we'll explore what new results in psychological science teach us about how to be happier, how to feel less stressed, and how to flourish more. We'll then have a chance to put these scientific findings into practice by building the sorts of habits that will allow us to live a happier and more fulfilling life.

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.

Prerequisite: Spanish I or Departmental Approval

DMA COURSE DESCRIPTIONS

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: Spanish II

Spanish Honors III (Pre-AP)

This course is designed to expand the knowledge acquired in the first two years of the Spanish program at DMA. The class is primarily conducted in Spanish and will continue building communication skills in the present, past and future tense. Proficiency and growing in the areas of speaking, listening, reading and writing are emphasized for cadets to become more fluent and to communicate in real-life scenarios. Students will continue to expand their knowledge of Hispanic culture. This course is a key component for cadets who are interested in taking the Advanced Placement Spanish Language and Culture course the following year.

Prerequisite: Spanish II with a final grade of 90% or higher

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.

AP Spanish Language and Culture (NEW!)

Spanish AP is an upper-level elective course for college bound students. Students should expect it to be considerably more complex than the first three years of Spanish. Students will be exposed to a variety of literary texts, internet articles and video recordings, group and individual projects that require proper sentence structure, appropriate idioms, clear pronunciation and correct intonation patterns as a means to better communication. Students will develop the ability to communicate using accurate vocabulary in sentences and grammar structure in advance conversation and composition integrating into daily communication. Summer reading/work will be required.

Pre-requisite: successful completion of Pre-AP Spanish III with a final grade of 85% or higher OR Spanish IV with a final grade of 85% or higher.

DMA COURSE DESCRIPTIONS

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)

Principles of Management (BBM201) - Effective managers are essential to any organization's success. Managers must pay attention to internal and external factors related to their organization. Managers need to develop specific competencies relating to the functions of management, which are planning, organizing, leading, and controlling.

DMA COURSE DESCRIPTIONS

Competencies include communication skills, planning and administration, promoting teamwork, strategic initiatives, global awareness, and self-management.

Pre-requisite: Cadets must have a minimum cumulative weighted GPA of 3.0 or higher and successful completion or concurrent enrollment in Entrepreneurship.

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 course through Educere, Inc (Founders Education). 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

Concert Choir is a performance-based class that meets all year long, during mini-block. Performances, including two concerts, graduation, school ceremonies and visits to local nursing homes are observed as grades. Participation in these performances earn cadets Unit Service and/or Community Service Hours. If performances and activities are held during non-school hours, the dates are published at least three weeks in advance and cadets are expected to participate. Cadets earn points for in-class rehearsal time,

DMA COURSE DESCRIPTIONS

performances and are assessed on music skills taught during class. No previous choir experience is required. Cadets who enroll in choir are eligible for yearly music department trips with the DMA Music Association. Participation in the winter & spring concerts held outside of school hours is REQUIRED for successful completion of this course.

Music In the Movies

This course covers the role of music in the film industry beginning with early silent films and the introduction of the ‘talkies’ up through current releases. Topics such as instrumentation, film composers, special effects, music genres and musical deception are covered. During this course, cadets will work in a group to write, direct and produce their own short film, using music and special effects to complement the film. Grades are based on classwork, quizzes, tests, projects and participation.

Prerequisites: none

Piano Fundamentals I and II

This course focuses on all aspects of playing the piano including how to read music, music theory, and proper piano technique. By the end of this course, each cadet will be able to look at a simple music 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 or experiences. Cadets are provided with their own keyboard and set of headphones (in-class use only) but are expected to supply (6) AA batteries to power the keyboard whenever needed. Cadets who successfully complete Piano Fundamentals I, are eligible for enrollment in Piano Fundamentals II. Piano II cadets are assigned individualized lessons and work independently at their own pace.

Prerequisites: none

DRIVER’S EDUCATION

The State of Delaware, Department of Education approved Driver Education course is offered to all 10th 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 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.

DMA COURSE DESCRIPTIONS

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.