Milford High School
Home of the Buccaneers

1019 North Walnut Street
Milford, DE 19963
Phone: (302) 422-1610
mhs.milfordschooldistrict.org
WELCOME TO MILFORD HIGH SCHOOL

Milford High School’s foremost priority is to provide every student with the skills to pursue their postsecondary college and career dreams. Our mission is clear:

Milford High School will create a safe, nurturing, and academically stimulating environment that will inspire excellence in teaching and life-long learning so that each student will possess the skills and attitudes essential to participate in a diverse and changing world. In partnership with home and community, our mission is to develop citizens who respect themselves and others, value cultural diversity, set goals with a positive attitude, think critically to solve problems, and can adapt to the changing needs of a global society.

Students at Milford High School benefit from a broad range of career majors and celebrated academic opportunities which boast college prep coursework for all students, honors programs in all core areas of study, and opportunities to earn college credit. In addition, students have the advantage of a wide range of athletics, clubs, activities, volunteer opportunities, and a community spirit which is unmatched in Delaware.

To be a Milford Buccaneer is to be part of a tradition and community that will shape your life forever.

#wearemilford

Quality Education Right in Your Neighborhood

Milford School District is an Equal Opportunity Employer and does not discriminate in employment or in educational programs, services, or activities on the basis of race, color, national origin, sex, sexual orientation, age, disabilities, marital status, genetic information or Veteran Status. Contact the Title IX Coordinator or the District 504 and ADA Coordinator, 906 Lakeview Avenue, Milford, Delaware 19963. Telephone 302-422-1600.
What is a graduation major?

Students must complete a major to graduate. Each major has a required set of three (3) courses that are beyond the core courses required for graduation. In addition to the course requirements, students will have opportunities to choose additional coursework. Students should work with their parents and school counselors to select the best major for graduation, preparing them for college and a career.

Milford High School's program of study includes four components:

2. Three-course major in a specific college or career area.
3. Opportunities for Dual Enrollment, Advanced College Standing, Articulated College Credit, and/or Advanced Placement (AP) courses.
4. Opportunities for industry certifications and actual career experience through off-campus work-based learning employment or internship experiences.
GRADUATION REQUIREMENTS

Graduation Requirements
The Milford School District has rigorous requirements for our students in order to ensure that they are prepared for college and career success. Program specifics are on the following pages and outline the options students have to complete their requirements. A major is a set of three courses that prepares a student for college and career success.

Incoming freshmen will select a major as part of their enrollment in Milford High School. Students are encouraged to work with parents, school counselors, teachers, and administrators to select the major that best prepares them for college and career readiness. When making this choice there are two important factors to consider: Are these choices consistent with your career plans, and are these choices commensurate with your academic abilities and performance? If the answer is yes to both questions, this is the right major for you!

Minimum Graduation Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Career Major</td>
<td>3</td>
</tr>
<tr>
<td>English</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>Social Studies</td>
<td>3</td>
</tr>
<tr>
<td>Science</td>
<td>3</td>
</tr>
<tr>
<td>Additional Social Studies or Science</td>
<td>1</td>
</tr>
<tr>
<td>World Languages</td>
<td>2</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Health Education</td>
<td>.5</td>
</tr>
<tr>
<td>Electives</td>
<td>3.5</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>25 CREDITS</strong></td>
</tr>
</tbody>
</table>

College Preparatory (CP)
College Preparatory courses are designed to provide a rigorous curriculum aligned with state standards and connected to the student’s major. These classes prepare a student for a variety of post-secondary experiences including higher education and/or the workforce.

Honors (H)
Honors courses are designed to prepare students for the rigors of AP and Dual Enrollment courses in various subjects. These courses move at an accelerated pace and often have more outside reading and homework requirements. All students are encouraged to apply to these programs.

Advanced Placement (AP)
AP courses prepare students for college work and are equivalent to freshman courses at a university. These courses teach students to think more deeply about complex college concepts. Successful completion of the course offers students the opportunity to sit for the Advanced Placement exam for college credits. Most exams are worth 3 college credits, but can count for up to 8 college credits. While the acceptance of these scores varies from school to school, all colleges consider strength of schedule in the admissions process. AP courses help distinguish a student in this process. Students who take AP Courses are required to take the exam to receive the weighted credit for the course in their cumulative GPA. Tests are in May and financial aid is available for students who qualify.

AP Courses

<table>
<thead>
<tr>
<th>AP Biology</th>
<th>AP European History</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP Calculus AB</td>
<td>AP Human Geography</td>
</tr>
<tr>
<td>AP Chemistry</td>
<td>AP Physics 1</td>
</tr>
<tr>
<td>AP Computer Science A</td>
<td>AP Psychology</td>
</tr>
<tr>
<td>AP Computer Science Principles</td>
<td>AP Spanish Language &amp; Culture</td>
</tr>
<tr>
<td>AP English Language and Composition</td>
<td>AP Statistics</td>
</tr>
<tr>
<td>AP English Literature and Composition</td>
<td>AP U.S. Government &amp; Politics</td>
</tr>
<tr>
<td>AP Environmental Science</td>
<td>AP U.S. History</td>
</tr>
</tbody>
</table>
EARN COLLEGE CREDIT IN HIGH SCHOOL

1. Earn college credit while enrolled at Milford High School
   Dual Enrollment courses are college courses taught by Milford High School faculty. MHS faculty act as adjunct professors and teach the college course during the school day. Students taking Dual Enrollment courses earn high school and college credit at the same time. Students receive a transcript from the partnering college once credit is earned.

2. Earn articulated credit in a Milford High School course
   Articulated credit is awarded when a student takes a course or series of courses at Milford High School, earns at least an 85%, and then enrolls in the partnering institution. Students who enter college in remedial courses do not receive the articulated credit.

3. Take a course at a local College or University
   Local area institutions of higher education offer special programming for students interested in taking college courses on campus prior to high school graduation. Such courses can be taken during summer months, after school hours, or during school with special arrangement for school release. Such an experience can be a valuable experience for students.

   - DSU Early Bird Program
     https://www.desu.edu/admissions/early-bird-program
     Requirements: Letter of Recommendation, 3.0 GPA, 6 free credits maximum, or 2.5 GPA, 6 credit maximum, pay full tuition

   - Wilmington University Early College Credit Program
     http://www.wilmu.edu/earlycollege
     Requirements: 2.7 GPA, commitment to hard work, $32 per credit + $25 registration fee, submit application

   - Delaware Technical Community College
     Requirements: Must be 16 years of age, pay full tuition
     https://www.dtcc.edu/admissions-financial-aid/programs-hs-students

4. Academic Challenge
   Academic Challenge is a specialized program through Delaware Technical Community College. Students apply for admission at the end of 7th grade and begin taking courses at the Owens Campus in Georgetown during 8th grade. Milford School District provides transportation and counselors work with students to schedule courses during the school day. Academic Challenge students earn college credit for courses taken in the Academic Challenge program.

BECOME COLLEGE READY

PSAT & SAT
   All Milford High School students take College Board exams in 9th, 10th, and 11th grade. The fall administration of the PSAT in 11th grade enables students to be eligible for the National Merit Scholarship. These exams are administered free of charge. Students can upload their scores to Khan Academy to receive individualized tutoring activities.

BECOME CAREER READY

Work-Based Learning
   Students who complete a Career Technical Education (CTE) major are eligible for work-based learning. Students in work-based learning secure internships and/or paid employment in their field of study. They are released to work during school hours and earn high school credit for their work experience. Work-based learning students provide their own transportation. Students’ employers rate their performance and students must validate their work experience through records and assignments. The work-based learning coordinator monitors students and assigns a grade. Work-based learning experiences are a great addition to any resume.

BE A STUDENT ATHLETE

Academic Eligibility Requirements for Athletics
   Delaware Interscholastic Athletic Association (DIAA) governs all Delaware athletics. In order to participate in high school athletics, the student must pass at least five (5) credits, two (2) of which must be core courses in English, math, social studies, and/or science. All seniors must be passing every class they need for graduation. At the beginning of the year a student must have passed 5 credits, two of which must be core classes from the previous school year.
SCHOOLS AND MAJORS

School of Agriscience

Animal Science
- Animal Science I
- Animal Science II
- Animal Science III

Food Science
- Food Science I
- Food Science II
- Food Science III

Greenhouse & Horticulture Science
- Greenhouse & Horticulture Science I
- Greenhouse & Horticulture Science II
- Greenhouse & Horticulture Science III

Structure & Systems Technology
- Structure & Systems Technology I
- Structure & Systems Technology II
- Structure & Systems Technology III

School of Health Sciences

Allied Health
- Fundamentals of Health Science
- Essentials of Health Careers
- BIO 120: Anatomy & Physiology I

Sports & Health Sciences
- A combination of three of the following courses:
  - Fundamentals of Health Science
  - Essentials of Health Careers
  - Anatomy & Physiology
  - Strength Training
  - Fitness Training
  - Team Sports

School of Modern Studies

Humanities
- A combination of three English and/or Social Studies courses above the requirements for graduation.

Spanish
- Spanish III
- Spanish IV
- AP Spanish Language & Culture

School of Business & Finance

Academy of Finance
- Fundamentals of Finance
- Principles of Accounting
- Financial Services

Marketing
- Business, Finance, & Marketing
- Marketing II
- Marketing III

Business Management
- Business, Finance, & Marketing
- Business Management II
- Business Management III

School of Education & Career Studies

College Scholars
- A combination of three AP or Dual Enrollment courses above the requirements for graduation.

Jobs for Delaware Graduates
- JDG 9
- JDG 10
- JDG 11
- JDG 12

K-12 Teacher Academy
- Human Growth and Development
- Teaching as a Profession
- Foundations of Curriculum and Instruction

School of Art & Design

Digital Design Technology
- Communication Technology I
- Communication Technology II
- Communication Technology III

Performing Arts
- A combination of three performing arts courses including band, choir, and drama.

Visual Arts
- A combination of three visual arts courses including art, digital design technology, and yearbook.

School of Science, Technology, Engineering, & Math

Computer Science
- Exploring Computer Science
- AP Principles of Computer Science
- AP Computer Science A

Energy Management
- OAT 152: Excel Level I
- SOC 103: Sustainability and Society
- NRG 101: Introduction to Energy Management

Pre-Engineering
- A combination of three math or science courses above the requirement for graduation.
**SUMMARY OF MAJOR**
This program of study teaches students skills such as the proper safety techniques related to animal production and the economic factors related to animal production and care. Students will also be exposed to the terminology and common practices that they would encounter in a veterinary practice. Medical vocabulary will be focused on throughout the semester, as well as parasitology, diseases and animal nutrition. Students will receive hands-on instruction in fetal pig dissections as part of their study of the anatomy and physiology of different animals. Students in this major will be prepared to enter the workforce as well as be successful in both technical training programs and four year university programs.

**COLLEGE CREDIT**
Students who complete the *Animal Science* major receive the following articulated credits:

**University of Delaware**
- ANFS 166: Independent Study, Animal & Food
- AGRI 206: Introduction to Animal Science

**Spanish III** Spanish IV

**ANIMAL SCIENCE COURSE DESCRIPTIONS**

**ANIMAL SCIENCE I**
- Level: College Prep
- Prerequisite: None
- Credit: 1
- This is an introductory course to animal science to include the correct use of safety procedures related to animal production. Students will research data on the global importance of animal agriculture science. Students will identify economically important breeds of livestock and companion animals and be exposed to basic information regarding animal reproduction, nutrition, digestion, and health concerns, as well as identifying governmental regulations related to animal welfare.

**ANIMAL SCIENCE II**
- Level: College Prep
- Prerequisite: Animal Science I
- Credit: 1
- Students will become proficient in the topics that were introduced in Animal Science I. Students will develop safety procedures to use in animal science and analyze livestock & companion animal economic information. Students will expand their knowledge of the reproduction, nutrition, digestion and health care of animals that depend on humans for their well-being. Students will discuss the economic impact of animal disease and parasites and the potential transfer of disease to humans.

**ANIMAL SCIENCE III**
- Level: College Prep
- Prerequisite: Animal Science II
- Credit: 1
- In this course, students will be exposed to the terminology and common practices that they would encounter in a veterinary practice. Medical vocabulary will be focused on throughout the semester, as well as parasitology, diseases and animal nutrition. Students will receive hands-on instruction in fetal pig dissections as part of their study of the anatomy and physiology of different animals. All concepts covered in Animal Science I & II will be examined at an advanced level as identified by the state animal science standards.

**ANIMAL SCIENCE WORK-BASED LEARNING**
- Credit: 1 or More Determined by Work Hours
- Prerequisite: Completion of Major
- Work-Based learning provides students an early career experience. Upon completion of the major, students are able to secure a job or internship experience and earn high school credit while working. A work-based learning student leaves school early to go to work or internship and puts the skills learned from their major to use. Students are supported by a work-based learning coordinator and must complete specific assignments. Students earn a grade and credits while gaining real-life experience on the job. The job or internship must directly relate to the major of study.

**Students will complete a Supervised Agricultural Experience (SAE) Project and are encouraged to join the FFA, an integral, co-curricular part of the Agriscience Program.**

**State of the Art Facility**
Milford Agriscience barn and working farm provides students hands-on opportunities.

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Milford Agriscience barn and working farm provides students hands-on opportunities.

**Future Careers**
- Veterinarian
- Horse Breeder
- Zoologist
- Animal Rescue
- Farmer
- Wildlife Manager
- Veterinary Technologist

**Supervised Agricultural Experience (SAE)**
SAE includes: entrepreneurship, placement, agriscience research, agricultural service learning, exploratory, improvement, supplemental and directed school laboratory.

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Food Science

SUMMARY OF MAJOR
This program of study offers career exploration concerning the handling and processing of food, food packaging and labeling, food safety, and issues in food science. Students will receive hands-on instruction that includes dairy product testing, identification of retail cuts of meat, as well as fish processing and more. A special emphasis is placed upon workforce opportunities in the region through partners such as Purdue. Students will have opportunities for internships and hands on experience in these industries.

COLLEGE CREDIT
Students who complete the Food Science major receive the following articulated credits:

University of Delaware
ANFS 166: Independent Study, Animal & Food

Delaware Technical Community College
FYS 100: Intro to Food Science

COURSE SEQUENCE
Food Science I
Food Science II
Food Science III

FOOD SCIENCE COURSE DESCRIPTIONS

FOOD SCIENCE I
Level: College Prep  Credit: 1
Prerequisite: None
This course will serve as an introduction to level II and III. It will include career exploration, handling and processing of food, food packaging and labeling, food safety, and issues in food science. Students will receive hands-on instruction that includes dairy product testing, identification of retail cuts of meat, as well as fish processing and more. In future courses students explore topics such as meat processing, cheese making and the biotechnology behind our food supply.

FOOD SCIENCE II
Level: College Prep  Credit: 1
Prerequisite: Food Science I
This course will include career exploration, a further understanding of food processing and issues related to food science, meat processing, cheese making, and biotechnology as it relates to the food science industry.

FOOD SCIENCE III
Level: College Prep  Credit: 1
Prerequisite: Food Science II
This course will include career exploration and will build upon the previous course topics. Students will focus on sustainability from a farm to table aspect of the food science industry.

FOOD SCIENCE WORK-BASED LEARNING
Credit: 1 or More Determined by Work Hours
Prerequisite: Completion of Major
Work-Based learning provides students an early career experience. Upon completion of the major, students are able to secure a job or internship experience and earn high school credit while working. A work-based learning student leaves school early to go to work or internship and puts the skills learned from their major to use. Students are supported by a work-based learning coordinator and must complete specific assignments. Students earn a grade and credits while gaining real-life experience on the job. The job or internship must directly relate to the major of study.

FOOD SCIENCE重大要求

School of Agriscience

FOOD SCIENCE MAJOR REQUIREMENTS
The following is a suggested sequence of courses required to successfully complete this major.

<table>
<thead>
<tr>
<th>GRADE 9</th>
<th>GRADE 10</th>
<th>GRADE 11</th>
<th>GRADE 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Requirements:</td>
<td>Food Science I</td>
<td>Food Science II</td>
<td>Food Science III</td>
</tr>
<tr>
<td>3 Credits</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suggested Electives:</td>
<td>Any additional</td>
<td>Spanish III</td>
<td>Spanish IV</td>
</tr>
<tr>
<td>3.5 Credit Minimum</td>
<td>Agriscience Courses</td>
<td>AP Spanish Language &amp; Culture</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>SOC 111: Sociology</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Work-Based Learning</td>
<td></td>
</tr>
</tbody>
</table>

Students will complete a Supervised Agricultural Experience (SAE) Project and are encouraged to join the FFA, an integral, co-curricular part of the Agriscience Program.
Greenhouse & Horticulture Science

SUMMARY OF MAJOR
This major prepares students to manage all of the systems within the greenhouse, such as the heating/ventilation and irrigation systems. Students will also engage in the learning process through classroom activities covering: Plant Anatomy and Physiology, Plant Propagation, Growing Media, Nutrients and Fertilizers, Soil Erosion and Land Management, Soil Fertility and Management, Integrated Pest Management, and Pesticides, Principles of Business Management, Entrepreneurship, Record Keeping, Operation of an Agribusiness, Marketing Products, and Developing Communication Skills. Each one of these concepts will be taught through a combination of classroom and laboratory instruction.

COLLEGE CREDIT
Students who complete the Greenhouse & Horticulture Science major receive the following articulated credits:

University of Delaware
ANFS 166: Independent Study, Animal & Food

Delaware State University
AGRI 219: General Horticulture

School of Agriscience

Greenhouse & Horticulture Science Major Requirements
The following is a suggested sequence of courses required to successfully complete this major.

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Grade 9</th>
<th>Grade 10</th>
<th>Grade 11</th>
<th>Grade 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greenhouse &amp; Horticulture Science I</td>
<td>3 Credits</td>
<td>Greenhouse &amp; Horticulture Science II</td>
<td>Greenhouse &amp; Horticulture Science III</td>
<td></td>
</tr>
<tr>
<td>Suggested Electives:</td>
<td>Any additional Agriscience Courses</td>
<td>Spanish III</td>
<td>Spanish IV</td>
<td>AP Spanish Language &amp; Culture</td>
</tr>
</tbody>
</table>

Greenhouse & Horticulture Science Course Descriptions

GREENHOUSE & HORTICULTURE SCIENCE I
Level: College Prep
Prerequisite: None
This course will cover the fundamentals of plant and soil science, which include the major characteristics of plant life, plant structures and functions, nutrient needs of plants, fundamentals of soil science, cultural practices, and pest management. Each one of these concepts will be taught through a combination of classroom and laboratory instruction. Students will be raising a poinsettia/spring flower crop during the duration of this course. Careers in the horticultural sciences will also be explored. This is the entry-level course for students pursuing a pathway in Greenhouse.

GREENHOUSE & HORTICULTURE SCIENCE II
Level: College Prep
Prerequisite: Greenhouse & Horticulture Science I
The students in this class will be growing and managing the various crops in our greenhouse. They will also be able to manage all of the systems within the greenhouse, such as the heating/ventilation and irrigation systems. Students will also engage in the learning process through classroom activities covering: Plant Anatomy and Physiology, Plant Propagation, Growing Media, Nutrients and Fertilizers, Soil Erosion and Land Management, Soil Fertility and Management, Integrated Pest Management, and Pesticides. Each one of these concepts will be taught through a combination of classroom and laboratory instruction.

GREENHOUSE & HORTICULTURE SCIENCE III
Level: College Prep
Prerequisite: Greenhouse & Horticulture Science II
The students in this class will be managing the greenhouse and all of the crops that it produces. Students will also engage in the learning process through classroom activities covering: Soil Erosion and Land Management, Integrated Pest Management, Pesticides, Principles of Business Management, Entrepreneurship, Record Keeping, Operation of an Agribusiness, Marketing Products, and Developing Communication Skills.

Work-Based Learning
Credit: 1 or More Determined by Work Hours
Prerequisite: Completion of Major
Work-Based learning provides students an early career experience. Upon completion of the major, students are able to secure a job or internship experience and earn high school credit while working. A work-based learning student leaves school early to go to work or internship and puts the skills learned from their major to use. Students are supported by a work-based learning coordinator and must complete specific assignments. Students earn a grade and credits while gaining real-life experience on the job. The job or internship must directly relate to the major of study.

Students will complete a Supervised Agricultural Experience (SAE) Project and are encouraged to join the FFA, an integral, co-curricular part of the Agriscience Program.
Structure & Systems Technology

SUMMARY OF MAJOR
This major prepares students for work in various engineering and construction fields. Emphasis is on career exploration, safety, and proper use of hand and power tools and materials in their relationship to structures. Students receive hands-on instruction that includes making toys for Santa’s Workshop, as well as other beginning shop projects and procedures. Basic instruction in electrical systems and plumbing also are covered. Students will build on their knowledge course to course in the areas of basic construction, electrical systems, plumbing, surveying and masonry. Students will also be introduced to metal working, HVAC and cabinetry procedures.

Future Careers
- Carpenter
- Welder
- Builder
- Mechanic

Structure & Systems Technology

School of Agriscience

Structure & Systems Technology Major Requirements
The following is a suggested sequence of courses required to successfully complete this major.

<table>
<thead>
<tr>
<th>GRADE 9</th>
<th>GRADE 10</th>
<th>GRADE 11</th>
<th>GRADE 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Requirements: 3 Credits</td>
<td>Structure &amp; Systems Technology I</td>
<td>Structure &amp; Systems Technology II</td>
<td>Structure &amp; Systems Technology III</td>
</tr>
<tr>
<td>Suggested Electives: 3.5 Credit Minimum</td>
<td>Any additional Agriscience Courses</td>
<td>Spanish III</td>
<td>Spanish IV</td>
</tr>
</tbody>
</table>

| | | | |
| | | | AP Spanish Language & Culture |
| | | | SOC 111: Sociology |
| | | | Work-Based Learning |

Structure & Systems Technology Course Descriptions

Structure & Systems Technology I
Level: College Prep
Credit: 1
Prerequisite: None
This is an introductory course to include career exploration, safety, and proper use of hand and power tools and materials in their relationship to structures. Students receive hands-on instruction that includes making toys for Santa’s Workshop, as well as other beginning shop projects and procedures. Basic instruction in electrical systems and plumbing also take place during this course.

Structure & Systems Technology II
Level: College Prep
Credit: 1
Prerequisite: Structure & Systems Technology I
This course includes career exploration, safety, and proper use of hand and power tools and materials in their relationship to structures. Students receive hands-on instruction that includes making toys for Santa’s Workshop, as well as other beginning shop projects and procedures. Basic instruction in electrical systems and plumbing also take place during this course.

Structure & Systems Technology III
Level: College Prep
Credit: 1
Prerequisite: Structure & Systems Technology II
This course includes career exploration, safety, and proper use of hand and power tools and materials in their relationship to structures. Students will build on their previous knowledge in the areas of basic construction, electrical systems, plumbing, surveying and masonry. Students will also be introduced to metal working, HVAC and cabinetry procedures during this class.

Structure & Systems Technology Work-Based Learning
Credit: 1 or More Determined by Work Hours
Prerequisite: Completion of Major
Work-Based learning provides students an early career experience. Upon completion of the major, students are able to secure a job or internship experience and earn high school credit while working. A work-based learning student leaves school early to go to work or internship and puts the skills learned from their major to use. Students are supported by a work-based learning coordinator and must complete specific assignments. Students earn a grade and credits while gaining real-life experience on the job. The job or internship must directly relate to the major of study.

Students will complete a Supervised Agricultural Experience (SAE) Project and are encouraged to join the FFA, an integral, co-curricular part of the Agriscience Program.
The Academy of Finance (AOF) major engages students with the world of financial services by focusing on banking and credit, financial planning, accounting, and insurance. Students gain career knowledge through a series of work-based learning activities that are conducted in school and outside of the classroom, and a summer internship.

**SUMMARY OF MAJOR**
The Academy of Finance (AOF) major engages students with the world of financial services by focusing on banking and credit, financial planning, accounting, and insurance. Students gain career knowledge through a series of work-based learning activities that are conducted in school and outside of the classroom, and a summer internship.

**COLLEGE CREDIT**
Students who successfully complete the AOF major will receive articulated credit at Delaware Technical Community College for the following courses:

- **BUS 101:** Introduction to Business
- **SSC 130:** Where’s My Money
- **SSC 131:** Are You Credit Worthy?
- **SSC 132:** Planning for the Beach

The Dual Enrollment ACC 101: Accounting I course is available to students at Milford High School upon completion of the major through Delaware Tech.

**ACADEMY OF FINANCE COURSE DESCRIPTIONS**

### FUNDAMENTALS OF FINANCE
- **Level:** College Prep  
- **Credit:** 1  
- **Prerequisite:** None  
- **Fundamentals of Finance (FOF) explores the foundation of financial literacy, the function of finance in society, and the role of a financial planner. This course focuses on income and wealth, financial institutions, and the role of finance in organizations. Students research the impact of technology on the financial services field, explore the role of a financial planner, and examine the importance of sound financial planning. An integrated culminating project provides an opportunity for students to demonstrate expertise on issues critical to financial independence.**

### PRINCIPLES OF ACCOUNTING
- **Level:** College Prep  
- **Credit:** 1  
- **Prerequisite:** Principles of Finance  
- **Principles of Accounting provides students with an understanding of the critical accounting process and how it facilitates decision making by providing data and information to internal and external stakeholders. Technology will be used for internal decision making, planning, and control.**

### FINANCIAL SERVICES
- **Level:** College Prep  
- **Credit:** 1  
- **Prerequisite:** Principles of Accounting  
- **Financial Services provides students with the history of money and banking and the origins of banking in the United States. Students will learn to research and discriminate between investment options through an in-depth study of the financial services industry and are also introduced to the insurance industry and the critical role of insurance in the financial services sector.**

**ACADEMY OF FINANCE WORK-BASED LEARNING**
- **Credit:** 1 or More Determined by Work Hours  
- **Prerequisite:** Completion of Major  
- **Work-Based learning provides students an early career experience. Upon completion of the major, students are able to secure a job or internship and earn high school credit while working. A work-based learning student leaves school early to go to work or internship and puts the skills learned from their major to use. Students are supported by a work-based learning coordinator and must complete specific assignments. Students earn a grade and credits while gaining real-life experience on the job. The job or internship must directly relate to the major of study.**

The National Academy of Finance (NAF) partners with thirteen (13) colleges and universities across the country to award advanced credit for Academy of Finance (AOF) program completion. For more information please visit www.naf.org.
**SUMMARY OF MAJOR**

Students in this major focus on career opportunities dedicated to performing administrative and managerial processes vital to the success and ongoing existence of a business organization, regardless of the sector or industry. This program of study will build on the skills learned through electronic communications, publishing documents, projects, and active participation in Business Professionals of America. Students will use Microsoft Office Suite and/or Adobe Creative Suite software packages.

**COLLEGE CREDIT**

Students who complete the Business Management major receive the following articulated credits:
- Goldey-Beacom College
  - ITG 148: Desktop Applications MS Word
  - ITG 149: Desktop Applications MS Excel
- Delaware Technical Community College
  - BUS 101: Intro to Business
- Wilmington University
  - BBM 102: Intro to Business
  - BCS 206: Computer Applications for Business

Students completing this major are encouraged to take Dual Enrollment course Delaware Technical Community College
- ACC 101: Accounting I

**BUSINESS MANAGEMENT COURSE DESCRIPTIONS**

**BUSINESS, FINANCE, & MARKETING (BFM)**
- **Level:** College Prep
- **Prerequisite:** None
- **Credit:** 1

BFM is an introductory course acquainting the student with the basic concepts needed to succeed in business. Students will obtain basic knowledge and skills in personal finance, career development, communications, organization, informational technology, business law, customer relations, economics, human resource management, marketing, operations, strategic management, and entrepreneurship.

**BUSINESS MANAGEMENT II**
- **Level:** College Prep
- **Prerequisite:** Business, Finance, & Marketing
- **Credit:** 1

This course builds on the Business Management I course for those students focusing on career opportunities dedicated to performing administrative and managerial processes vital to the success and ongoing existence of a business organization, regardless of the sector or industry. This class will build on the skills learned in Business Management II through electronic communications, publishing documents, projects and active participation in Business Professionals of America. Students will use Microsoft Office Suite and/or Adobe Creative Suite software packages.

**BUSINESS MANAGEMENT III**
- **Level:** College Prep
- **Prerequisite:** Business Management II
- **Credit:** 1

This course builds on the Business Management II course for those students focusing on career opportunities dedicated to performing administrative and managerial processes vital to the success and ongoing existence of a business organization, regardless of the sector or industry. This class will build on the skills learned in Business Management II through electronic communications, publishing documents, projects and active participation in Business Professionals of America. Students will use Microsoft Office Suite and/or Adobe Creative Suite software packages.

**WORK-BASED LEARNING**

**Credit:** 1 or More Determined by Work Hours

**Prerequisite:** Completion of Major

Work-Based learning provides students an early career experience. Upon completion of the major, students are able to secure a job or internship experience and earn high school credit while working. A work-based learning student leaves school early to go to work or internship and puts the skills learned from their major to use. Students are supported by a work-based learning coordinator and must complete specific assignments. Students earn a grade and credits while gaining real-life experience on the job. The job or internship must directly relate to the major of study.

**School of Business & Finance**

**Business Management Major Requirements**

The following is a suggested sequence of courses required to successfully complete this major:

<table>
<thead>
<tr>
<th>GRADE 9</th>
<th>GRADE 10</th>
<th>GRADE 11</th>
<th>GRADE 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Requirements: 3 Credits</td>
<td>Business, Finance, &amp; Marketing</td>
<td>Business Management II</td>
<td>Business Management III</td>
</tr>
<tr>
<td>Suggested Electives: 3.5 Credit Minimum</td>
<td>Any additional Business &amp; Finance Courses</td>
<td>Spanish III</td>
<td>Spanish IV</td>
</tr>
</tbody>
</table>

**Future Careers**

- Sales Manager
- Account Management Specialist
- Product Development Specialist
- Administrative Assistant
- Entrepreneur

**STUDENT ORGANIZATION**

Business Professionals of America (BPA)

BPA exists to enhance student participation in professional, civic, service and social endeavors. BPA members participate in these activities to accomplish its goals of self-improvement, leadership development, professionalism, community service, career development, public relations, student cooperation and safety and health. BPA members compete in a state-wide competition each year.

www.bpa.org

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ACC 101: Accounting I

Delaware Technical Community College

Any additional Business & Finance Courses

Spanish III

AP Spanish Language & Culture

SOC 111: Sociology

ACC 101: Accounting I

Milford High School Catalog 23
DECA is a national student organization that aims to prepare emerging leaders and entrepreneurs for careers in business, finance, hospitality, and management in high schools. Each year students participate in state-wide conference and competitions in topics such as business plan, accounting applications, advertising campaign, and creative marketing project. www.deca.org

Students compete in state and national competitions on an annual basis.

SUMMARY OF MAJOR
Students will apply knowledge and skills learned to develop business and marketing plans, research and analyze companies, prepare trend and product analysis, set a marketing budget, evaluate the 4 P's of companies, and use the SWOT analysis. Career planning and development will also be covered in this major. Simulations incorporating knowledge acquired will be used relative to business marketing management, including distribution placement and product management.

COLLEGE CREDIT
Students who complete the Marketing major receive the following articulated credits:
- Goldey-Beacom College
  - GELMMT: General Education Elective
- Delaware State University
  - MGMT 100: Intro to Business
- Wilmington University
  - BMK 305: Marketing

Students completing this major are encouraged to take Dual Enrollment course Delaware Technical Community College: ACC 101: Accounting I

FUTURE CAREERS
- Marketing Specialist
- Marketing Researcher
- Small Business Owner
- Sales Associate
- Sales Manager
- Entrepreneur

MARKETING COURSE DESCRIPTIONS

BUSINESS, FINANCE, & MARKETING (BFM)
Level: College Prep
Prerequisite: None
BFM is an introductory course acquainting the student with the basic concepts needed to succeed in business. Students will obtain basic knowledge and skills in personal finance, career development, communications, organization, informational technology, business law, customer relations, economics, human resource management, marketing, operations, strategic management, and entrepreneurship.

MARKETING II
Level: College Prep
Prerequisite: Business, Finance, & Marketing
This course builds on the BFM course for those students focusing on careers that create, communicate and deliver value to customers and manage customer relationships in ways that benefit the organization and its stakeholders. Instruction will include marketing, promotion, production, placement, and pricing. Other factors include marketing budget, staff growth and development, marketing strategies, product development, advertisement, and business goals and objectives. Students will also be exposed to creating and delivering sales demonstrations, the selling process, and developing clientele. Simulations incorporating knowledge acquired will be used relative to sports & entertainment management, retail management, and restaurant management.

MARKETING III
Level: College Prep
Prerequisite: Marketing II
This course is the exit course for the Marketing major. It builds on the prior knowledge learned in the BFM and Marketing II course. Students will apply knowledge and skills learned in the prerequisite courses by developing business and marketing plans, researching and analyzing companies, preparing trend and product analysis, setting a marketing budget, evaluating the 4 P’s of companies and using the SWOT analysis. Career planning and development will also be covered in this course. Simulations incorporating knowledge acquired will be used relative to business marketing management, including distribution placement and product management.

MARKETING WORK-BASED LEARNING
Credit: 1 or More Determined by Work Hours
Prerequisite: Completion of Major
Work-Based learning provides students an early career experience. Upon completion of the major, students are able to secure a job or internship experience and earn high school credit while working. A work-based learning student leaves school early to go to work or internship and puts the skills learned from their major to use. Students are supported by a work-based learning coordinator and must complete specific assignments. Students earn a grade and credits while gaining real-life experience on the job. The job or internship must directly relate to the major of study.

Marketing Major Requirements
The following is a suggested sequence of courses required to successfully complete this major.

<table>
<thead>
<tr>
<th>GRADE 9</th>
<th>GRADE 10</th>
<th>GRADE 11</th>
<th>GRADE 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Requirements:</td>
<td>Business, Finance, &amp; Marketing</td>
<td>Marketing II</td>
<td>Marketing III</td>
</tr>
<tr>
<td>3 Credits</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suggested Electives:</td>
<td>Any additional Business &amp; Finance Courses</td>
<td>Spanish III</td>
<td>Spanish IV</td>
</tr>
<tr>
<td>3.5 Credit Minimum</td>
<td></td>
<td>AP Psychology</td>
<td>AP Spanish Language &amp; Culture</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SOC 111: Sociology</td>
<td>ACC 101: Accounting 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Work-Based Learning</td>
</tr>
</tbody>
</table>
College Scholars

The National Honor Society (NHS) is the nation's premier organization established to recognize outstanding high school students. It is estimated that more than one million students participate in NHS activities.

AP SCHOLAR AWARDS

The AP Scholar Awards recognize high school students who have demonstrated exemplary college-level achievement on AP Exams. The following academic distinctions are awarded:

- AP Scholar: Granted to students who receive scores of 3 or higher on three or more AP Exams
- AP Scholar with Honor: Granted to students who receive an average score of at least 3.25 on all AP Exams taken, and scores of 3 or higher on four or more of these exams
- AP Scholar with Distinction: Granted to students who receive an average score of at least 3.5 on all AP Exams taken, and scores of 3 or higher on five or more of these exams
- State AP Scholar: Granted to the one male and one female student in each U.S. state and the District of Columbia with scores of 3 or higher on the greatest number of AP Exams, and then the highest average score (at least 3.5) on all AP Exams taken
- National AP Scholar: Granted to students in the United States who receive an average score of at least 4 on all AP Exams taken, and scores of 4 or higher on eight or more of these exams

SUMMARY OF MAJOR

College Scholar majors are encouraged to take the AP or Dual Enrollment level of courses in each of the discipline areas. Students will have the opportunity to take college credit bearing courses all four years of their high school career. When applying to top universities, strength of schedule is a key component of admissions. These students will have some of the strongest available at any high school in the country. AP Courses often have more rigorous levels of work than traditional high school courses and require a significant time commitment. Dual Enrollment courses are college courses offered at Milford High School free of charge that enroll the student in the college granting the credit. Milford High School has partnerships with Delaware Technical Community College, Wilmington University, and Delaware State University.

STUDENT ORGANIZATIONS

https://apstudent.collegeboard.org

College Scholars

School of Education & Career Studies

The following is a suggested sequence of courses required to successfully complete this major.

<table>
<thead>
<tr>
<th>COURSE CATEGORY</th>
<th>GRADE 9</th>
<th>GRADE 10</th>
<th>GRADE 11</th>
<th>GRADE 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>English: 4 Credits</td>
<td>English 9 or higher</td>
<td>English 10 or higher</td>
<td>English 11 or higher</td>
<td>English 12 or higher</td>
</tr>
<tr>
<td>Mathematics: 4 Credits</td>
<td>Algebra I or higher</td>
<td>Geometry or higher</td>
<td>Algebra II or higher</td>
<td>Choose one: AP Calculus AB, AP Statistics, MAT 153: College Math &amp; Statistics, Pre-Calculus</td>
</tr>
<tr>
<td>Science: 3 or 4 Credits</td>
<td>Physical Science or higher</td>
<td>Biology or higher</td>
<td>Choose one: AP Biology, Chemistry, AP Chemistry, Earth Science, AP Environmental Science, Physics, AP Physics</td>
<td></td>
</tr>
<tr>
<td>Social Studies: 3 or 4 Credits</td>
<td>Human Geography or AP Human Geography</td>
<td>U.S. Government &amp; Economics or AP U.S. Government &amp; Politics</td>
<td>U.S. History or AP U.S. History</td>
<td></td>
</tr>
<tr>
<td>Health: 1 Credit</td>
<td>Health/Driver’s Education</td>
<td>Physical Education</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spanish: 2 Credits</td>
<td>Spanish I or higher</td>
<td>Spanish II or higher</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Requirements: 3 Credits</td>
<td>Additional Dual Enrollment/AP Course</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suggested Electives: 3.5 Credit Minimum</td>
<td>Spanish III AP Psychology</td>
<td>Spanish IV AP Spanish Language &amp; Culture, SOC 111: Sociology, ACC 101: Accounting I</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Milford High School Catalog
Jobs for Delaware Graduates

SUMMARY OF MAJOR

The Jobs for Delaware Graduates (JDG) major is designed to help students reach academic and career goals. The curriculum includes 16 school-to-work transition competencies per year. JDG is committed to preparing the students of Milford High School for real world job experience. Each competency delivers an impactful job skill or soft skill that students will need to be successful in employment. The experiential learning experiences will prepare students for a business, teaching, or marketing major in college. This is an excellent major for students who want to go directly into the workforce after graduation. The JDG Specialist is available to assist students in finding jobs in the career of their choice during the school year, in the summer, and for 12 months following graduation.

2004 GRADUATE OF JOBS FOR DELAWARE

Latoria J. Ellis is a 2004 Milford High School graduate and Jobs for Delaware Graduates (JDG) major. While in high school she was elected state-wide Vice President of the Delaware Career Association. She attributes JDG with helping her become a better public speaker, improve her communication skills, and have more confidence. Ms. Ellis has since earned several post secondary degrees and owns her own business. She said, “I am truly thankful for everything JDG has done for me.”

School of Education & Career Studies

JOBS FOR DELAWARE GRADUATES COURSE DESCRIPTIONS

JDG 9
Level: College Prep  Prerequisite: None
The 9th grade JDG course includes: study skills, personal grooming, goal planning, decision making, choosing a career path, maintaining a positive attitude, coping with change, values clarification, image assessment, writing an autobiography, group dynamics, conflict resolution, and life skills math.

JDG 10
Level: College Prep  Prerequisite: JDG 9
The 10th grade JDG course includes: problem solving, teamwork, goal setting, money management, workplace math, courtesy and respect, customer service, workplace diversity, career interests, entrepreneurship, leadership, understanding insurances, and writing job applications.

JDG 11
Level: College Prep  Prerequisite: JDG 10
The 11th grade JDG course includes: career vocabulary, resume writing, sources of jobs, telephone skills, listening skills, stress management, personal budgeting, occupational preferences, career manual, verbal presentations, critical thinking, constructive criticism, and professional ethics.

JDG 12
Level: College Prep  Prerequisite: JDG 11
The 12th grade JDG course includes: time management, letter of application, choosing career attire, employment interview, job survival, performance evaluations, business etiquette, employee rights, pay and benefits, financial planning, career travel, writing a letter of resignation, and career portfolio. Each senior will develop a Career Portfolio that includes a resume, references, a sample job application, and recommendations.

JOBS FOR DELAWARE GRADUATES WORK-BASED LEARNING

Prerequisite: Completion of Major  Credit: 1 or More Determined by Work Hours
Work-Based learning provides students an early career experience. Upon completion of the major, students are able to secure a job or internship experience and earn high school credit while working. A work-based learning student leaves school early to go to work or internship and puts the skills learned from their major to use. Students are supported by a work-based learning coordinator and must complete specific assignments. Students earn a grade and credits while gaining real-life experience on the job. The job or internship must directly relate to the major of study.

Jobs for Delaware Graduates Major Requirements
The following is a suggested sequence of courses required to successfully complete this major.

<table>
<thead>
<tr>
<th>GRADE 9</th>
<th>GRADE 10</th>
<th>GRADE 11</th>
<th>GRADE 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Requirements: 3 Credits</td>
<td>JDG 9</td>
<td>JDG 10</td>
<td>JDG 11</td>
</tr>
<tr>
<td>Suggested Electives:</td>
<td>Students in this major may consider a secondary major to enhance their skills and knowledge.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JDG 9</td>
<td>JDG 10</td>
<td>JDG 11</td>
<td>JDG 12</td>
</tr>
</tbody>
</table>

Milford High School Catalog 29
K-12 Teacher Academy

SUMMARY OF MAJOR
The Delaware K-12 Teacher Academy engages students in developing a realistic understanding of teaching while exploring the importance and impact of teachers. Students will acquire the knowledge and skills needed to sustain their interest in the profession and cultivate the skills needed to be successful educators, thus creating a pipeline of high-quality students transitioning to the teaching profession. Students will understand the rigor of a career in education and participate in classroom and field experiences relevant to pursuing a degree in education.

COLLEGE CREDIT
Students completing the K-12 Teacher Academy major are encouraged to take core area Dual Enrollment and Advanced Placement courses to complement this major area.

TEACH IN MILFORD!
All K-12 Teacher Academy graduates who go on to complete a college degree in education and are certified to teach in Delaware will be guaranteed an interview for an available teaching position with the Milford School District.

School of Education & Career Studies

K-12 Teacher Academy Major Requirements
The following is a suggested sequence of courses required to successfully complete this major:

<table>
<thead>
<tr>
<th>GRADE 9</th>
<th>GRADE 10</th>
<th>GRADE 11</th>
<th>GRADE 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Requirements:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 Credits</td>
<td>Human Growth and Development</td>
<td>Teaching as a Profession</td>
<td>Foundations of Curriculum and Instruction</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suggested Electives:</td>
<td>Coursework related to your content area</td>
<td>AP Psychology</td>
<td>SOC 111: Sociology Work-Based Learning</td>
</tr>
<tr>
<td>3.5 Credit Minimum</td>
<td>(For example: An aspiring history teacher should take social studies electives)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

K-12 TEACHER ACADEMY COURSE DESCRIPTIONS

HUMAN GROWTH AND DEVELOPMENT
Level: College Prep  Credit: 1
Prerequisite: None
This course introduces students to human physical, cognitive, social, and emotional development beginning with conception and ending with early adolescence. Theories supporting current thinking and research on human development are examined, as well as the processes and influences affecting the developing person. Further, students explore challenges to normal growth and development.

TEACHING AS A PROFESSION
Level: College Prep  Credit: 1
Prerequisite: Human Growth and Development
This course explores the role of the teacher in the past, present, and future in order to understand the importance of teaching in American society and its historical significance and social impact. Students explore the responsibilities and opportunities of an effective teacher at various grade bands and consider the function of the teacher as a leader. Students also identify personal professional goals to establish a path to becoming a teacher.

HUMAN GROWTH AND DEVELOPMENT
AP Psychology
SOC 111: Sociology Work-Based Learning

FOUNTAINS OF CURRICULUM AND INSTRUCTION
Level: College Prep  Credit: 1
Prerequisite: Teaching as a Profession
This course explores curriculum delivery models in response to the needs of the learner. Emphasis is placed on the development of a variety of instructional materials that promote learning and a supportive classroom environment. Students analyze the influence of technology on learning. Students develop lesson plans and assessments while practicing appropriate classroom management techniques to maximize the learning process for every student.

K-12 TEACHER ACADEMY WORK-BASED LEARNING
Credit: 1 or More Determined by Work Hours
Prerequisite: Completion of Major
Work-Based learning provides students an early career experience. Upon completion of the major, students are able to secure a job or internship experience and earn high school credit while working. A work-based learning student leaves school early to go to work or internship and puts the skills learned from their major to use. Students are supported by a work-based learning coordinator and must complete specific assignments. Students earn a grade and credits while gaining real-life experience on the job. The job or internship must directly relate to the major of study.

Milford High School Catalog
### Allied Health

#### SUMMARY OF MAJOR

The Allied Health program of study is a Career & Technical Education (CTE) instructional program that engages students in open-ended problem solving where they study topics such as medical terminology and human anatomy and physiology. Through exploration of the National Health Science Standards, students will acquire important skills necessary for healthcare professionals such as medical mathematics, communication, safety practices, legal responsibilities, and teamwork. In addition, students will develop technical skills such as performing a wound culture, measuring vital signs, collecting a throat culture and performing a strep test. The program prepares students for a variety of careers in healthcare such as respiratory therapist, nurse, physical therapist, dental hygienist, and medical lab technician.

#### COLLEGE CREDIT

Students who complete the Allied Health major receive the following credits at Delaware Technical and Community College:

**Articulated Credit (Milford High School curriculum):**

- HLS 100: Intro to Health Careers
- BIO 100: Medical Terminology

**Dual Enrollment Credit (Delaware Tech curriculum):**

- BIO 120: Anatomy & Physiology

### SCHOOL OF HEALTH SCIENCES

#### ALLIED HEALTH MAJOR REQUIREMENTS

The following is a suggested sequence of courses required to successfully complete this major:

<table>
<thead>
<tr>
<th>GRADE 9</th>
<th>GRADE 10</th>
<th>GRADE 11</th>
<th>GRADE 12</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Major Requirements:</strong></td>
<td>Fundamentals of Health Science</td>
<td>Essentials of Health Careers</td>
<td>BIO 120: Anatomy &amp; Physiology I</td>
</tr>
<tr>
<td>Credits: 3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Suggested Electives:**

3.5 Credit Minimum

- AP Psychology
- Spanish III
- Strength Training
- Fitness Training
- Team Sports
- Spanish IV
- Anatomy & Physiology
- Work-Based Learning

#### ALLIED HEALTH COURSE DESCRIPTIONS

**FUNDAMENTALS OF HEALTH SCIENCE**

- **Level:** College Prep
- **Credit:** 1
- **Prerequisite:** None
- This course introduces students to careers in healthcare and is a prerequisite to the other Allied Health program of study courses. This course will explore the National Consortium for Health Science Education (NCHSE) Health Science Standards and entry-level healthcare skills as well as the language of medicine. Students begin preparation for the National Consortium for Health Science Education (NCHSE) National Health Science Assessment.

**ESSENTIALS OF HEALTH CAREERS**

- **Level:** College Prep
- **Credit:** 1
- **Prerequisite:** Fundamentals of Health Science
- This course offers students the opportunity to become effective and efficient healthcare providers as they develop a working knowledge of various healthcare opportunities. As students identify the various areas of Allied Health, they will discuss the potential of education, advancement, employment opportunities, employment sites, and financial rewards. Students will focus on careers in the healthcare field by applying classroom/lab knowledge and skills to clinical settings as they participate in direct or simulated patient care.

**BIO 120: ANATOMY & PHYSIOLOGY I**

- **Level:** Dual Enrollment
- **Credit:** 1 MHS & 5 DTCC
- **Prerequisite:** Essentials of Health Careers and SAT 480
- **ERW, Accuplacer Reading 78, Writing 84, or 75% grade in Technical Reading & Writing
- This course introduces students to the anatomy and physiology of humans including the structure and function of cells, tissues, and integumentary, skeletal, muscular, nervous, and endocrine systems. Coordinated laboratory experiments are an integral part of this course. Students learn the physiology of each body system, as well as how to investigate common diseases, disorders, and emerging diseases. The prevention, diagnosis, and treatment of disease are addressed.

**ALLIED HEALTH WORK-BASED LEARNING**

- **Credit:** 1 or More Determined by Work Hours
- **Prerequisite:** Completion of Major
- Work-Based learning provides students an early career experience. Upon completion of the major, students are able to secure a job or internship experience and earn high school credit while working. A work-based learning student leaves school early to go to work or internship and puts the skills learned from their major to use. Students are supported by a work-based learning coordinator and must complete specific assignments. Students earn a grade and credits while gaining real-life experience on the job. The job or internship must directly relate to the major of study.

### FUTURE CAREERS

- Respiratory Therapist
- Dental Hygienist
- Nursing Assistant
- Radiologist
- Nurse
- Medical Lab Technician
- Physical Therapist

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**Milford High School Catalog**

33
**Sports & Health Sciences**

**COURSE SELECTIONS**
A combination of three of the following courses:
- Fundamentals of Health Science
- Essentials of Health Careers
- Anatomy & Physiology
- Strength Training
- Fitness Training
- Team Sports

**STUDENT ORGANIZATIONS**
- Participate on Athletic Team
- Volunteer as Sports Manager
- Varsity Club

**Blood Bank of Delmarva**
Students in the Sports & Health Sciences Major organize the Milford High School blood drive each year.

**TECHNICAL CERTIFICATION**
- American Heart Association
  - CPR & First Aid Certification

**FUTURE CAREERS**
- Athletic Trainer
- Athletic Director
- Physical Therapist
- Sports Marketing
- Sports Psychologist
- Fitness Marketing Specialist

**SUMMARY OF MAJOR**
A unique combination of coursework gives students the necessary experience to major in the competitive field of sports medicine. Designed to give students a background in human anatomy, fitness, basic medical knowledge, students who complete this major will have the skills and experience to pursue a variety of college majors ranging from medicine to sports management to athletic training.

**COLLEGE CREDIT**
Students who complete the Sports & Health Sciences major receive the following articulated credit at Delaware Technical Community College:
- BIO 100: Medical Terminology
- HLS 100: Intro to Health Careers

**School of Health Sciences**

**Sports & Health Sciences Major Requirements**
The following is a suggested sequence of courses required to successfully complete this major:

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<thead>
<tr>
<th>Grade 9</th>
<th>Grade 10</th>
<th>Grade 11</th>
<th>Grade 12</th>
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<tbody>
<tr>
<td><strong>English:</strong></td>
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<td>4 Credits</td>
<td>English 9 or higher</td>
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<td>AP U.S. History</td>
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<td>World History</td>
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<td><strong>Social Studies:</strong></td>
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<td>3 or 4 Credits</td>
<td>Human Geography or</td>
<td>U.S. Government &amp;</td>
<td>U.S. History or</td>
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<td></td>
<td>AP Human Geography</td>
<td>AP U.S. Government &amp;</td>
<td>AP U.S. History</td>
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<td>or AP Human Geography</td>
<td>AP U.S. Government &amp;</td>
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<td>U.S. Government &amp;</td>
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<td>AP U.S. Government &amp;</td>
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<td>Health/Driver’s Education</td>
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<td><strong>Physical Education:</strong></td>
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<td>1 Credit</td>
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<td><strong>Spanish:</strong></td>
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<td>2 Credits</td>
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<td><strong>Major Requirements:</strong></td>
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<tr>
<td>3 Credits</td>
<td>A combination of three of the following courses:</td>
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<td></td>
<td>Fundamentals of Health Science, Essentials of Health Careers, Advanced PE, Strength Training, Anatomy &amp; Physiology</td>
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<td><strong>Suggested Electives:</strong></td>
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<tr>
<td>3.5 Credit Minimum</td>
<td>Business, Finance, &amp; Marketing</td>
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<td>Spanish III</td>
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<td>AP Psychology</td>
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<td>Strength Training</td>
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<td>Spanish IV</td>
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<td>SOC 111: Sociology</td>
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<td>Strength Training</td>
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<td>Fitness Training</td>
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<tr>
<td></td>
<td>Team Sports</td>
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</tbody>
</table>
Humanities

COURSE SELECTIONS
A combination of three English or Social Studies courses above the requirements for graduation.

STUDENT ORGANIZATIONS
- Drama Club
- International Club
- Journalism
- Student Government Association
- Students in Creative Writing participate in National Novel Writing Month. These students compose and submit novels to this international competition.

The Young Writers Program promotes writing fluency, creative education, and the sheer joy of novel-writing in K-12 classrooms. We provide free classroom kits, writing workbooks, Common Core-aligned curricula, and virtual class management tools to more than 2,000 educators from Dubai to Boston. www.nanowrimo.org

SUMMARY OF MAJOR
This major is geared toward the student who is interested in studying law, geography, economics, governmental policy, journalism, literature, writing, or philosophy at the university level. Additional courses that make up this major will have an emphasis on research and writing. Students are encouraged to enroll in Advanced Placement and/or Dual Enrollment courses in English and Social Studies.

COLLEGE CREDIT
Students may obtain college credit through Dual Enrollment and/or scores of 3 or higher on Advanced Placement exams.

STUDENT ORGANIZATIONS
- Delaware Young Playwrights
  Delaware Theatre Company Students in Drama are encouraged to participate in the Young Playwrights Festival. Each student submits work to this competition to earn scholarships and recognition. www.delawaretheatre.org/young-playwrights-festival

- Poetry Out Loud
  Created by the National Endowment for the Arts and the Poetry Foundation, Poetry Out Loud is administered in partnership with the State Arts Agencies of all 50 states, the District of Columbia, the U.S. Virgin Islands, and Puerto Rico. One Champion is selected through the competition at Milford High School to represent the school in the Delaware competition. Winners are selected at this competition to compete in the National competition in Washington D.C. www.poetryoutloud.org

- Students are encouraged to participate in Delaware Student Mock Election.
  Students participate in Delaware Student Mock Election.

FUTURE CAREERS
- Historian
- Professor
- Lawyer
- Paralegal
- Writer
- Researcher
- International Relations

School of Modern Studies

Humanities Major Requirements
The following is a suggested sequence of courses required to successfully complete this major.

<table>
<thead>
<tr>
<th>COURSE SELECTIONS</th>
<th>GRADE 9</th>
<th>GRADE 10</th>
<th>GRADE 11</th>
<th>GRADE 12</th>
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</thead>
<tbody>
<tr>
<td>English: 4 Credits</td>
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<tr>
<td>Mathematics: 4 Credits</td>
<td>Algebra I or higher</td>
<td>Geometry or higher</td>
<td>Algebra II or higher</td>
<td>Choose one: AP Calculus AB AP Statistics MAT 153: College Math &amp; Statistics Pre-Calculus</td>
</tr>
<tr>
<td>Science: 3 or 4 Credits</td>
<td>Physical Science or higher</td>
<td>Biology or higher</td>
<td>Choose one: AP Biology Chemistry AP Chemistry Earth Science AP Environmental Science Physics AP Physics</td>
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<tr>
<td>Social Studies: 3 or 4 Credits</td>
<td>Human Geography or AP Human Geography</td>
<td>U.S. Government &amp; Economics or AP U.S. Government &amp; Politics</td>
<td>U.S. History or AP U.S. History</td>
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<td>Health/Driver’s Education</td>
<td>Physical Education</td>
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<tr>
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<tr>
<td>Spanish: 2 Credits</td>
<td>Spanish I or higher</td>
<td>Spanish II or higher</td>
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<tr>
<td>Major Requirements: 3 Credits</td>
<td>Additional Social Studies or English Courses</td>
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<tr>
<td>Suggested Electives: 3.5 Credit Minimum</td>
<td>Spanish III AP Psychology Spanish IV AP Spanish Language &amp; Culture SOC 111: Sociology</td>
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</tbody>
</table>

Milford High School students participate each year in the Delaware Student Mock Election. Two student delegates attend the mock convention at Legislative Hall and read votes aloud. The organization promotes voting awareness.

Milford High School Catalog
Spanish

Spanish Major Requirements
The following is a suggested sequence of courses required to successfully complete this major.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>GRADE 9</th>
<th>GRADE 10</th>
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<td>3 or 4 Credits</td>
<td>Human Geography or AP Human Geography</td>
<td>U.S. Government &amp; Economics or AP U.S. Government &amp; Politics</td>
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Health:                      | Health/Driver's Education |                              |
| 1 Credit                    |                               |                              |

Physical Education:         | Physical Education            |
| 1 Credit                    |                               |

Spanish:                    | Spanish I or higher          |
| 2 Credits                  | Spanish II or higher         |

Major Requirements:        | Spanish III                  |
| 3 Credits                  | Spanish IV                   |
|                           | AP Spanish Language & Culture |

Suggested Electives:       | Spanish Majors should consider secondary |
| 3.5 Credit Minimum        | major courses such as Allied Health or |
|                           | Teacher Academy to complement this |
|                           | Major.                        |

SUMMARY OF MAJOR
This major is for students who value the skill of learning another language and plan to travel abroad or use Spanish in our own community to further their college or career plans. Students will have the opportunity to gain a high level of proficiency in Spanish which they can apply at any career or use to enter high level coursework in college.

COLLEGE CREDIT
Students may obtain college credit through Dual Enrollment and/or scores of 3 or higher on Advanced Placement exams.
Digital Design Technology

**SUMMARY OF MAJOR**

This program of study is geared toward the student who is interested in broadcasting, graphic design, advertising, web design, digital marketing, etc. Students will explore methods of communication, including the operation of video cameras and non-linear editing. Students will develop skills in the use of multi-camera studio productions and the methods of production design. Students will also learn how multimedia can provide multiple avenues for developing concepts and messages.

**DIGITAL DESIGN TECHNOLOGY COURSE DESCRIPTIONS**

**COMMUNICATION TECHNOLOGY I**
- **Level:** College Prep
- **Credit:** 1
- **Prerequisite:** None
- **Description:** This course is designed to give students basic knowledge and understanding of the world of graphic design and the basic skills necessary to begin working within that field. Emphasis will be placed on design techniques, media aesthetics, digital image capture and printing. Projects will be used to challenge their creativity while developing skills used in the graphic design field. Careers will be explored throughout the course. Participation in TSA, the student organization, is to be encouraged.

**COMMUNICATION TECHNOLOGY II**
- **Level:** College Prep
- **Prerequisite:** Communication Technology I
- **Credit:** 1
- **Description:** This course will utilize skills and knowledge acquired in Communication Technology I. Students will apply their learning through projects that focus on advertising and other commercial applications. Students will learn advanced techniques in areas such as design, photo manipulation, and business applications. Emphasis will be placed on developing a professional portfolio. ACA [Adobe Certified Associate] Careers will be explored throughout the course. Participation in TSA, the student organization, is to be encouraged.

**COMMUNICATION TECHNOLOGY III**
- **Level:** College Prep
- **Prerequisite:** Communication Technology II
- **Credit:** 1
- **Description:** The final course in the major, students will use their knowledge base to develop professional level elements for their portfolio. Students will explore methods of communication including the operation of video cameras and non-linear editing. Students will also develop skills in the use of multi-camera studio productions and the methods of production design. Students will also learn how multimedia can provide multiple avenues for developing concepts and messages. Participation in TSA, the student organization, is to be encouraged. Students will have the opportunity to test and earn National Certification for Adobe software.

**COMMUNICATION TECHNOLOGY IV**
- **Level:** College Prep
- **Prerequisite:** Teacher Approval
- **Credit:** 1 (Elective)
- **Description:** Students are expected to complete a multimedia project that has a high degree of complexity. This project can be used as an entry to various state and national competitions. Participation in TSA, the student organization, is required.

**DIGITAL DESIGN TECHNOLOGY WORK-BASED LEARNING**
- **Prerequisite:** Completion of Major
- **Credit:** 1 or More Determined by Work Hours
- **Description:** Work-Based learning provides students an early career experience. Upon completion of the major, students are able to secure a job or internship experience and earn high school credit while working. A work-based learning student leaves school early to go to work or internship and puts the skills learned from their major to use. Students are supported by a work-based learning coordinator and must complete specific assignments. Students earn a grade and credits while gaining real-life experience on the job. The job or internship must directly relate to the major of study.

**STUDENT ORGANIZATIONS**

- eSports
- Robotics Club

**TECHNICAL CERTIFICATION**

The Adobe Certified Associate (ACA) certification allows you to demonstrate proficiency in Adobe digital communications tools.

**FUTURE CAREERS**

- Broadcaster
- Journalist
- Photographer
- Graphic Designer
- Audio/Video Producer
- Digital Media Designer

School of Art & Design

**DIGITAL DESIGN TECHNOLOGY WORK-BASED LEARNING**

The Adobe Certified Associate (ACA) certification allows you to demonstrate proficiency in Adobe digital communications tools.

**STUDENT ORGANIZATIONS**

- Robotics Club
- eSports

**SUMMARY OF MAJOR**

This program of study is geared toward the student who is interested in broadcasting, graphic design, advertising, web design, digital marketing, etc. Students will explore methods of communication, including the operation of video cameras and non-linear editing. Students will develop skills in the use of multi-camera studio productions and the methods of production design. Students will also learn how multimedia can provide multiple avenues for developing concepts and messages.

**DIGITAL DESIGN TECHNOLOGY COURSE DESCRIPTIONS**

**COMMUNICATION TECHNOLOGY I**
- **Level:** College Prep
- **Credit:** 1
- **Prerequisite:** None
- **Description:** This course is designed to give students basic knowledge and understanding of the world of graphic design and the basic skills necessary to begin working within that field. Emphasis will be placed on design techniques, media aesthetics, digital image capture and printing. Projects will be used to challenge their creativity while developing skills used in the graphic design field. Careers will be explored throughout the course. Participation in TSA, the student organization, is to be encouraged.

**COMMUNICATION TECHNOLOGY II**
- **Level:** College Prep
- **Prerequisite:** Communication Technology I
- **Credit:** 1
- **Description:** This course will utilize skills and knowledge acquired in Communication Technology I. Students will apply their learning through projects that focus on advertising and other commercial applications. Students will learn advanced techniques in areas such as design, photo manipulation, and business applications. Emphasis will be placed on developing a professional portfolio. ACA [Adobe Certified Associate] Careers will be explored throughout the course. Participation in TSA, the student organization, is to be encouraged.

**COMMUNICATION TECHNOLOGY III**
- **Level:** College Prep
- **Prerequisite:** Communication Technology II
- **Credit:** 1
- **Description:** The final course in the major, students will use their knowledge base to develop professional level elements for their portfolio. Students will explore methods of communication including the operation of video cameras and non-linear editing. Students will also develop skills in the use of multi-camera studio productions and the methods of production design. Students will also learn how multimedia can provide multiple avenues for developing concepts and messages. Participation in TSA, the student organization, is to be encouraged. Students will have the opportunity to test and earn National Certification for Adobe software.

**COMMUNICATION TECHNOLOGY IV**
- **Level:** College Prep
- **Prerequisite:** Teacher Approval
- **Credit:** 1 (Elective)
- **Description:** Students are expected to complete a multimedia project that has a high degree of complexity. This project can be used as an entry to various state and national competitions. Participation in TSA, the student organization, is required.

**DIGITAL DESIGN TECHNOLOGY WORK-BASED LEARNING**
- **Prerequisite:** Completion of Major
- **Credit:** 1 or More Determined by Work Hours
- **Description:** Work-Based learning provides students an early career experience. Upon completion of the major, students are able to secure a job or internship experience and earn high school credit while working. A work-based learning student leaves school early to go to work or internship and puts the skills learned from their major to use. Students are supported by a work-based learning coordinator and must complete specific assignments. Students earn a grade and credits while gaining real-life experience on the job. The job or internship must directly relate to the major of study.
Performing Arts

Performing Arts Major Requirements
The following is a suggested sequence of courses required to successfully complete this major.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>GRADE 9</th>
<th>GRADE 10</th>
<th>GRADE 11</th>
<th>GRADE 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>English:</td>
<td>4 Credits</td>
<td>English 9 or higher</td>
<td>English 10 or higher</td>
<td>English 11 or higher</td>
</tr>
<tr>
<td>Mathematics:</td>
<td>Algebra I or higher</td>
<td>Geometry or higher</td>
<td>Algebra II or higher</td>
<td></td>
</tr>
<tr>
<td>Science:</td>
<td>Physical Science or higher</td>
<td>Biology or higher</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spanish:</td>
<td>Spanish I or higher</td>
<td>Spanish II or higher</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Requirements:</td>
<td>3 Credits</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suggested Electives:</td>
<td>3.5 Credit Minimum</td>
<td></td>
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</tr>
</tbody>
</table>

School of Art & Design

Kelly Tyrrell Gill Night of the Arts
Twice a year students enrolled in music and art courses showcase their talents during an evening presentation. These nights are an opportunity for students to present their culminating work in 2D and 3D art as well as choir and band performances.

Buccaneer Marching Band
The marching band begins in August each year during band camp. They perform at sporting events and marches in local parades. Marching band practices during the school day.

Delaware All-State Ensembles
Ensembles include state junior and senior concert bands, junior and senior choirs, jazz ensemble, orchestra, and honors guitar. There is also a yearly composition competition for budding young composers. Diligent preparation is a must for the audition requirements including scales, prepared pieces, and sight reading, as well as submission of original works for composers. All State auditions run November through February, depending on the ensemble. Those selected to these elite ensembles rehearse with guest conductors from across the country in preparation for concerts.

Future Careers
- Actor
- Musician
- Singer
- Music Teacher
- Composer

Summary of Major
The performing arts major is designed for students interested in pursuing a career in music and performance. Students may choose from a series of courses including band, choir, music theory, and drama. Students may elect to concentrate in one of these areas or take a unique combination customized to their interest. Instrumental and choral students rehearse daily in class in preparation for musical performances throughout the year both in school and within the community. Students in this major are required to participate in the Kelly Tyrrell Gill Night of the Arts as well as various other performances.
**Visual Arts**

**COURSE SELECTION**
A combination of three visual arts courses including art, digital design technology, and yearbook.

**STUDENT ORGANIZATIONS**
- Art Club
- Kelly Tyrrell Gill Night of the Arts
  Twice a year students enrolled in music and art courses showcase their talents during an evening presentation. These nights are an opportunity for students to present their culminating work in 2D and 3D art as well as choir and band performances.

**SUMMARY OF MAJOR**
This program of study allows students to explore a variety of 2D and 3D art media while focusing on the elements of art and principles of design. Students will study art works and genres in the context of culture and history. Students will be encouraged to develop a portfolio over the course of this major for application to art and design schools. Critical thinking skills will be used during art creation, research, critiques and discussion. Students will create, discuss and write about art works. Students are highly encouraged to participate in Art Club and submit work for the Kelly Tyrrell Gill Night of the Arts as well as local, state regional, and national art contests and art exhibitions.

**Future Careers**
- Art Educator
- Potter
- Painter
- Artist
- Curator
- Sculptor

**School of Art & Design**

**Visual Arts Major Requirements**
The following is a suggested sequence of courses required to successfully complete this major.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>GRADE 9</th>
<th>GRADE 10</th>
<th>GRADE 11</th>
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<tr>
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<tr>
<td>(4 Credits)</td>
<td>English 9 or higher</td>
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<td>(4 Credits)</td>
<td>Algebra I or higher</td>
<td>Geometry or higher</td>
<td>Algebra II or higher</td>
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<td>AP Calculus AB</td>
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<td>AP Statistics</td>
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<td>MAT 153: College Math &amp; Statistics</td>
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<td>Pre-Calculus</td>
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<td><strong>Science:</strong></td>
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<tr>
<td>(3 or 4 Credits)</td>
<td>Physical Science or higher</td>
<td>Biology or higher</td>
<td>Choose one:</td>
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<td>AP Biology</td>
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<td>Chemistry</td>
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<td>AP Chemistry</td>
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<td>Earth Science</td>
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<td>AP Environmental Science</td>
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<td>Physics</td>
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<td>AP Physics</td>
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<tr>
<td><strong>Social Studies:</strong></td>
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<tr>
<td>(3 or 4 Credits)</td>
<td>Human Geography or AP Human Geography</td>
<td>U.S. Government &amp; Economics or AP U.S. Government &amp; Politics</td>
<td>U.S. History or AP U.S. History</td>
<td>Choose one:</td>
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<td>AP Biology</td>
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<td>AP Physics</td>
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<td>AP Human Geography</td>
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<td>Psychology</td>
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<td>AP Psychology</td>
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<td>AP U.S. Government &amp; Politics</td>
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<td>AP U.S. History</td>
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<td>World History</td>
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<td><strong>Health:</strong></td>
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<tr>
<td>(1 Credit)</td>
<td>Health/Driver's Education</td>
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<tr>
<td><strong>Spanish:</strong></td>
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<tr>
<td>(2 Credits)</td>
<td>Spanish I or higher</td>
<td>Spanish II or higher</td>
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<tr>
<td><strong>Major Requirements:</strong></td>
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<tr>
<td>(3 Credits)</td>
<td>A combination of three visual arts courses including art, digital design technology, and yearbook.</td>
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<tr>
<td><strong>Suggested Electives:</strong></td>
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<tr>
<td>(3.5 Credit Minimum)</td>
<td>Visual Arts majors should consider secondary major courses such as Digital Design Technology, or Marketing to compliment this major.</td>
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</tbody>
</table>

Spanish III
Spanish IV
AP Spanish Language & Culture
Computer Science Major Requirements

The following is a suggested sequence of courses required to successfully complete this major:

<table>
<thead>
<tr>
<th>GRADE 9</th>
<th>GRADE 10</th>
<th>GRADE 11</th>
<th>GRADE 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Requirements:</td>
<td>Exploring Computer Science</td>
<td>AP Computer Science Principles</td>
<td>AP Computer Science A</td>
</tr>
<tr>
<td>3 Credits</td>
<td>Exploring Computer Science</td>
<td>AP Computer Science Principles</td>
<td>AP Computer Science A</td>
</tr>
<tr>
<td>Suggested Electives:</td>
<td>Spanish III</td>
<td>Web Page Design and Publishing</td>
<td>Spanish IV</td>
</tr>
</tbody>
</table>

3.5 Credit Minimum

COMPUTER SCIENCE COURSE DESCRIPTIONS

Exploring Computer Science

Level: College Prep
Prerequisite: None
This course allows students to focus on the conceptual ideas of computing to understand why certain tools or languages might be utilized to solve particular problems. The goal of the course is to develop computational practices of algorithm development, problem solving and programming within the context of relevant and authentic problems. Topics such as interface design, limits of computers, and societal and ethical issues are explored.

AP Computer Science A

Level: Advanced Placement
Prerequisite: College Prep
Credit: 1 (Weighted)
This course allows students to focus on the conceptual ideas of computing to understand why certain tools or languages might be utilized to solve particular problems. The goal of the course is to develop computational practices of algorithm development, problem solving and programming within the context of relevant and authentic problems. Topics such as interface design, limits of computers, and societal and ethical issues are explored.

AP Computer Science Principles (CSP)

Level: Advanced Placement
Prerequisite: None
Credit: 1 (Weighted)
This course allows students to focus on the conceptual ideas of computing to understand why certain tools or languages might be utilized to solve particular problems. The goal of the course is to develop computational practices of algorithm development, problem solving and programming within the context of relevant and authentic problems. Topics such as interface design, limits of computers, and societal and ethical issues are explored.

AP Computer Science Principles

Level: College Prep
Prerequisite: None
Credit: 1 (Weighted)
This course allows students to focus on the conceptual ideas of computing to understand why certain tools or languages might be utilized to solve particular problems. The goal of the course is to develop computational practices of algorithm development, problem solving and programming within the context of relevant and authentic problems. Topics such as interface design, limits of computers, and societal and ethical issues are explored.

SUMMARY OF MAJOR

This major allows students to focus on the conceptual ideas of computing to understand why certain tools or languages might be utilized to solve particular problems. Topics such as interface design, limits of computers, and societal and ethical issues are explored. Students are exposed to problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing.

COLLEGE CREDIT

Students who complete the Computer Science major earn articulated credit from the following College/Universities.

Delaware Technical Community College
CIS 120: Introduction to Programming

Delaware State University
CSCI 110: Computational Thinking I
CSCI 120: Elements of Computer Programming I

Wilmington University
SEC100: Introduction to Computer Hardware and Operation
SEC 290: Introduction to Programming with Python

University of Delaware
CISC101: Principles of Computing

This major includes two Advanced Placement courses and the potential for at least six (6) college credits.
Energy Management

SUMMARY OF MAJOR
Energy Management major is through a unique partnership with Delaware Technical Community College and Milford High School. Milford is the only high school in Sussex County able to offer this major. This is a one-year program for high school seniors with an interest in hands-on learning and jump starting a college education.

DELAWARE TECHNICAL COMMUNITY COLLEGE OWENS CAMPUS COURSEWORK
Students take two courses at the Milford High School campus and then travel by bus to the DTCC Owens Campus to complete the third course and the required training for this major. Students work in the state-of-the-art Energy Management lab.

COLLEGE CREDIT
Upon high school graduation, students can choose to enroll in Delaware Tech and choose among three areas of concentration: Energy Management, Renewable Energy Solar, Building Automation Systems.

The Energy Management major is made up exclusively of Dual Enrollment coursework. Minimum scores on the SAT or Accuplacer exam are required for enrollment.

Courses taken at Milford High School:
OAT 152: Excel Level I
SOC 103: Sustainability and Society

Courses taken at Delaware Tech Owens Campus:
NRG 101: Introduction to Energy Management

School of Science, Technology, Engineering, & Math

ENERGY MANAGEMENT COURSE DESCRIPTIONS

OAT 152: Excel Level I
Level: Dual Enrollment
Credit: 1 MHS & 3 DTCC
Prerequisite: SAT 450 Math or Accuplacer Algebra 67 or Arithmetic 90 and SAT 480 ERW or Accuplacer Reading 56 and Writing 61, or 75% grade in Technical Reading & Writing.
This course covers fundamental concepts of spreadsheet skills necessary to be successful within an organization. Project-based learning emphasizes technical knowledge and reinforces problem-solving abilities.

SOC 103: Sustainability & Society
Level: Dual Enrollment
Credit: 1 MHS & 3 DTCC
Prerequisite: SAT 450 Math or Accuplacer Algebra 67 or Arithmetic 90 and SAT 480 ERW or Accuplacer Reading 78, Writing 84, or 75% grade in Technical Reading & Writing.
This course introduces contemporary sustainability topics using the “3E” (economics, equity, and the environment) framework. Topics include sustainability impacts of land use, energy, water use, agriculture, economics, policy, social issues, and natural resources.

NRG 101: INTRODUCTION TO ENERGY MANAGEMENT
Level: Dual Enrollment
Credit: 1 MHS & 3 DTCC
Prerequisite: SAT 450 Math or Accuplacer Algebra 67 or Arithmetic 90 and SAT 480 ERW, Accuplacer Reading 78 and Writing 84, or 75% grade in Technical Reading & Writing.
This course is an introduction to the practice of energy management. Specific topics include career opportunities, working in teams, introduction to renewable and nonrenewable energy sources, energy end uses, unit conversion, basic energy physics, solving energy efficiency problems, and use of calculators and computers as tools for solving these problems.

ENERGY WORKFORCE SKILLS TRAINING (70 HOURS)
The Workforce Development Skills Training course will provide program participants (H.S. seniors) with hands-on skills training that is essential in a variety of energy career fields. This 70-hour course combines several existing DTCC Technical Training and Energy courses, some of which have been slightly modified to reflect the specific skills required by employers.

ENERGY MANAGEMENT WORK-BASED LEARNING
Prerequisite: Completion of Major
Credit: 1 or More Determined by Work Hours
Work-based learning provides students an early career experience. Upon completion of the major, students are able to secure a job or internship experience and earn high school credit while working. A work-based learning student leaves school early to go to work or internship and puts the skills learned from their major to use. Students are supported by a work-based learning coordinator and must complete specific assignments. Students earn a grade and credits while gaining real-life experience on the job. The job or internship must directly relate to the major of study.

Milford High School Catalog 49
Pre-Engineering

COURSE SELECTION
A combination of three math or science courses above the requirement for graduation.

STUDENT ORGANIZATIONS
• E Sports
• Robotics Club

Technology Student Association
TSA is a national organization of students whose purpose is to take the study of STEM beyond the classroom. TSA gives students the chance to pursue academic challenges among friends with similar goals and interests. Each year students compete in statewide competitions in areas such as website design, 3D modeling, and radio control operation.

SUMMARY OF MAJOR
This major is designed to expose students to high levels of math and a broad base of scientific principles. This content will be applied to practical situations asking students to solve engineering problems in the real world. Students majoring in Pre-Engineering should be prepared to advance to Calculus or Precalculus by senior year. This major can be customized to fit the area of interest of the student. Environmental, Civil, Aeronautical and Biomedical are all areas students in this major can explore. This major prepares students to attend a four year university to study Engineering.

FUTURE CAREERS
• Mechanical Engineer
• Civil Engineer
• City Planner
• Environmental Scientist
• Electrical Engineer
• Biomedical Engineer
• Architect

Pre-Engineering Major Requirements
The following is a suggested sequence of courses required to successfully complete this major.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>GRADE 9</th>
<th>GRADE 10</th>
<th>GRADE 11</th>
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</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>Mathematics</td>
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<td>Geometry or higher</td>
<td>Algebra II or higher</td>
</tr>
<tr>
<td>Science</td>
<td>3 or 4 Credits</td>
<td>Physical Science or higher</td>
<td>Biology or higher</td>
<td>Choose one:</td>
</tr>
<tr>
<td>Social Studies</td>
<td>3 or 4 Credits</td>
<td>Human Geography or AP Human Geography</td>
<td>U.S. Government &amp; Economics or AP U.S. Government &amp; Politics</td>
<td>Choose one:</td>
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<td>Health</td>
<td>1 Credit</td>
<td>Health/Driver's Education</td>
<td>Physical Education</td>
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<tr>
<td>Physical Education</td>
<td>1 Credit</td>
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</tr>
<tr>
<td>Spanish</td>
<td>2 Credits</td>
<td>Spanish I or higher</td>
<td>Spanish II or higher</td>
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<tr>
<td>Major Requirements</td>
<td>3 Credits</td>
<td>A combination of three math or science courses above the requirement for graduation.</td>
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<tr>
<td>Suggested Electives</td>
<td>3.5 Credit Minimum</td>
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</tbody>
</table>

School of Science, Technology, Engineering, & Math

Odyssey of the Mind
OM is an international creative problem-solving program that engages students in their learning by allowing their knowledge and ideas to come to life in an exciting, productive environment. Participants build self-confidence, develop life skills, create new friendships, and are able to recognize and explore their true potential. Students who participate compete in teams at an annual regional competition in activities such as balsa wood structure, spontaneous problem solving, and creative performance.

TSA is a national organization of students whose purpose is to take the study of STEM beyond the classroom. TSA gives students the chance to pursue academic challenges among friends with similar goals and interests. Each year students compete in statewide competitions in areas such as website design, 3D modeling, and radio control operation.

Technology Student Association
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### ENGLISH

<table>
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<tbody>
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<tr>
<td>HONORS ENGLISH 10</td>
<td>Pre-AP</td>
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### HONORS ENGLISH 10

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<th>Course</th>
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<tbody>
<tr>
<td>Prerequisite: Minimum grade of C in Honors English 9 or Qualifying Score and Summer Reading Assignment Required</td>
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<tr>
<td>This course is designed to hone the student’s speaking, writing, listening, and reading skills. Students will continue a study of literary genres using critical approaches to reader response and reader response writings. Course activities include a research paper and projects relating to the literary and historical background of selected works. Intense writing practice will assist students preparation for the state assessment and for AP Language and Composition.</td>
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### ENGLISH 11

<table>
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<tr>
<td>Prerequisite: English 10</td>
<td>College Prep</td>
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</tbody>
</table>

| This course includes a study of American literature from the Puritans and early settlers up to modern times. Students learn historical background by reading, discussing and writing critically about representative short stories, novels, poetry, essays, and drama. Independent readings and a research paper using MLA formatting are required. |         |         |

### ENGLISH 12

<table>
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<tr>
<th>Course</th>
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<tbody>
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</tbody>
</table>

| This course prepares college bound students for the types of writing they will need for success after high school: letters, essays, and literary analyses. The course also develops critical reading skills. Writing instruction emphasizes clarity, aptness and smoothness of expression. Students study traditional selections of British literature and complete independent readings. The goal of this class is to help the student use revision strategies independently and to develop critical thinking skills. Students are required to complete a research paper using MLA format. |         |         |

### AP ENGLISH LANGUAGE AND COMPOSITION

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Prerequisite: Summer Reading and Written Response</td>
<td>Advanced Placement</td>
<td>1 (Weighted)</td>
</tr>
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</table>

| This course prepares students for success on the AP English Language and Composition exam. It enhances the ability of the student to become a skilled reader of various types of prose and to become a skilled writer who composes for a variety of purposes. The focus of the course is an intensive use of the writing process. In addition, there is a close examination of textual material to strengthen reading comprehension. Students taking this course are required to take the AP Language and Composition exam. |         |         |

### AP ENGLISH LITERATURE AND COMPOSITION

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<td>Prerequisite: Summer Reading and Written Response</td>
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| This course is an intensive study of the methods and techniques writers use to create valid arguments, often while synthesizing information from multiple sources. Students will read a variety of genres, write and revise essays modeled on different modes of analysis, work to improve the breadth and depth of vocabulary, and prepare for the AP Language and Composition Exam. |         |         |

### ENG 101: CRITICAL THINKING & WRITING

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<tr>
<td>Prerequisite: SAT 480 ERW or Accuplacer Reading 78, Writing 94, or 75% grade in Technical Reading &amp; Writing</td>
<td>Dual Enrollment</td>
<td>1 MHS &amp; 6 DTCC</td>
</tr>
</tbody>
</table>

| This college-level 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 the academic essays and to respond to diverse texts in meaningful ways. |         |         |

### TECHNICAL READING & WRITING

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<th>Course</th>
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<tbody>
<tr>
<td>Prerequisite: SAT 380-470</td>
<td>College Prep</td>
<td>1</td>
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| This course is designed for students who do not meet minimum standards to take a college level course at Delaware Technical Community College. Students who have a PSAT score of 380-470 are encouraged to take this course. Upon successful completion with a 75% average students will be eligible to take Dual Enrollment college level courses at Delaware Tech without having to take a remedial course. The objectives of this course are to apply explicit reading strategies and skills to improve fluency and comprehension and to use explicit writing strategies and skills to plan, organize, and compose well-structured essays and written responses. |         |         |

### FILM ANALYSIS

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<tbody>
<tr>
<td>Prerequisite: None</td>
<td>College Prep</td>
<td>1</td>
</tr>
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</table>

| In this class students will compare and contrast films with their literary geneses. Students will first independently read a narrative work and then analyze the cinematic version. Students will also learn the elements of film and how movies are made. Students will be expected to read and write daily. |         |         |

### PREREQUISITES

- **English 9**: College Prep
- **Honor English 9**: College Prep
- **English 10**: College Prep
- **AP English Language and Composition**: College Prep
- **AP English Literature and Composition**: College Prep
- **ENG 101**: College Prep
- **Technical Reading & Writing**: College Prep
- **Film Analysis**: College Prep

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**Prerequisites**: None

**Level**: College Prep

**Credit**: 1

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**AP ENGLISH LANGUAGE AND COMPOSITION**: The student learns advanced research techniques which incorporates analysis of literary elements. Students are introduced to select-genres, and are asked to write increasingly longer works, and are expected to read poetry daily.
**AFRICAN AMERICAN LITERATURE**

Level: College Prep  
Prerequisite: None  
Credit: 1

This course offers a study of African American Literature from its inception to modern work. A broad range of genres is covered including: drama, short story, narrative, poetry, and novel. In addition, students learn the history, art, and music that correspond to the time period of the literature. Students trace the progression of African Americans in our culture and the effects that these periods have had on the American community in our culture and the effects of both.

**YEARBOOK I, II, III, IV**

Level: College Prep  
Prerequisite: None  
Credit: 1

This course is designed to instruct students in the various tasks that go into producing a yearbook by providing instruction and hands-on experience. Students will write copy, design layouts, take photographs, crop photographs, and sell ads. The remainder of the course requires students to use these skills to finalize the Milfordian for the coming year.

**HONORS ALGEBRA I**

Level: Pre-AP  
Prerequisite: None  
Credit: 1 (Weighted)

The purpose of this course is to accelerate students into the honors math program in high school. Students completing this course will be on track to taking Calculus their senior year. Students in this course should take Honors Geometry in the same school year. The critical focus of the course is to deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving, and using linear, exponential, and quadratic functions. Additional topics within data analysis and statistics will be explored. The Mathematical Practice Standards apply throughout the course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

**HONORS GEOMETRY**

Level: Pre-AP  
Prerequisite: Minimum grade of C in Honors Algebra I or Qualifying Score  
Credit: 1 (Weighted)

Students explore complex geometric situations and deepen their explanations of geometric relationships, moving toward formal mathematical arguments. Important geometric ideas are explored and formalized including transformations, congruency, similarity, and right triangle trigonometry. The Mathematical Practice Standards apply throughout the course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

**HONORS ALGEBRA II**

Level: Pre-AP  
Prerequisite: Geometry  
Credit: 1 (Weighted)

Building on their work with linear, quadratic, and exponential functions from Algebra 1, students extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. Additional topics within statistics and probability will be explored. The Mathematical Practice Standards apply throughout each course and together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

**HONORS PRE-CALCULUS**

Level: Pre-AP  
Prerequisite: Minimum grade of C in Honors Algebra II or Qualifying Score  
Credit: 1 (Weighted)

Honors Pre-Calculus is a rigorous, fast-paced course designed to prepare students for AP Calculus AB in their senior year. Topics include all those covered in a College Prep pre-calculus course along with an introduction to the limit concept in calculus. This course is designed for those students who are highly motivated and intend to enroll in AP Calculus AB the following year.

**CALCULUS**

Level: Advanced Placement  
Prerequisite: Pre-Calculus  
Credit: 1

This course provides an introduction to the limit concept as well as basic differentiation and integration. Analytic geometry is utilized to describe functions graphically. Trigonometric functions are also an integral part of the course.

**AP CALCULUS AB**

Level: Advanced Placement  
Prerequisite: Honors Pre-Calculus  
Credit: 1 (Weighted)

This course is designed to prepare students for the Advanced Placement Calculus exam in May. This course begins with an introduction to the limit concept and continues with basic differentiation and integration. Functions will be analyzed numerically, algebraically, and graphically, utilizing the graphing calculators as an essential tool in the analysis. Trigonometric functions, as well as real world applications, are an integral part of this course.

**AP STATISTICS**

Level: Advanced Placement  
Prerequisite: Pre-Calculus (CP or Honors)  
Credit: 1 (Weighted)

This course is an intensive and rigorous statistics course in which students are introduced to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, sampling and experimentation, anticipating patterns, and statistical inference.
MATHEMATICS ELECTIVES

MAT 120: CONTEMPORARY MATHEMATICS
Level: Delawor Advanced Standing
Prerequisite: None
Credit: 1 MHS  & 3 DTCC
Seniors taking Contemporary Mathematics who show mastery of the content by achieving at least 75% on a final grade in the course, including summative assessments, will receive a certificate for advanced standing credit for MAT 120 upon admission into Delaware Technical Community College. The certificate will have an expiration date of approximately two (2) years after graduation. Core performance objectives for this course include: use set theory to solve application problems, solve application problems involving real numbers, solve application problems using basic algebraic principles, apply ratios, proportions, percentages, simple and compound interest formulas to solve consumer mathematics problems, and apply introductory statistical concepts to solve application problems.

MAT 153: COLLEGE MATH & STATISTICS
Level: Dual Enrollment Credits: 1 MHS (Weighted) & 4 DTCC
Prerequisite: SAT 500 Math or Accuplacer Algebra 67
This course studies exponents, radicals, quadratic equations, relations and functions, graphing, polynomial functions, systems of equations, inequalities, exponential and logarithmic functions, elementary matrix operations, including organizing and presenting data, measures of central tendency and measures of variation.

SCIENCE

PHYSICAL SCIENCE-INTEGRATED
Level: College Prep
Prerequisite: None
Credit: 1
This course focuses on providing a foundation for subsequent science courses by providing students with fundamental concept knowledge from chemistry and physics. It will present students with experience in chemical reactions, structures and properties of matter, forces and interactions, energy, waves, and electromagnetic radiation. Engineering practices have been integrated into this curriculum, as well as a focus on scientific practices to help students prepare for more expanded studies as students’ progress through additional science courses.

AP PHYSICS 1
Level: Advanced Placement
Prerequisite: College Prep
Credit: 1 (Weighted)
This course applies a rigorous, inquiry-based approach to physics. Topics include kinematics, Newton’s laws, momentum and collisions, circular motion and gravity, simple harmonic motion, mechanical waves, work and conservation of energy, electrostatics, and basic DC circuits. Fluency in algebra and trigonometry is required.

AP PHYSICS 2
Level: Advanced Placement
Prerequisite: AP Physics 1
Credit: 1
A mathematically rigorous pre-engineering approach to second semester physics with a passing score in the AP Physics 2 exam as the objective. Topics include thermodynamics, kinetic theory of ideal gases, fluid statics and dynamics, electric fields and potential, DC circuits with resistors and capacitors, basic relationship between dynamic electric fields and magnetic fields, geometric optics, and elementary atomic and quantum phenomena. Fluency in algebra and trigonometry is required.

AP CHEMISTRY
Level: Advanced Placement
Prerequisite: None
Credit: 1
This course will focus on four major units of study, including: Astronomy, Meteorology, Geology and Oceanography. Emphasis will be on the changing environment and how Earth systems are affected by human activity. The curriculum will be taught using a wide variety of methodologies including reading and writing in the content area, interactive hands-on lab work, research, problem solving, and scientific inquiry activities. To be successful, students will need to design and execute experiments, analyze experimental data, and conduct independent research and/or other projects outside of class.

AP BIOLLOGY
Level: Advanced Placement
Prerequisite: None
Credit: 1
This course is designed to prepare students to take the advanced placement test and earn up to eight credit hours. Topics in lecture and laboratory include gas laws, intermolecular forces, kinetic molecular theory, acids, bases, chemical thermodynamics, nuclear chemistry, electrochemistry, environmental chemistry and organic chemistry.

AP CHEMISTRY
Level: Advanced Placement
Prerequisite: Minimum grade of C in Honors Biology or Qualifying Score
Credit: 1
This course will focus on providing a foundation for subsequent science courses by providing students with fundamental concept knowledge from chemistry and physics. It will present students with experience in chemical reactions, structures and properties of matter, forces and interactions, energy, waves, and electromagnetic radiation. Engineering practices have been integrated into this curriculum, as well as a focus on scientific practices to help students prepare for more expanded studies as students’ progress through additional science courses.

AP BIOLGY
Level: Advanced Placement
Prerequisite: None
Credit: 1
This course is designed to prepare students to take the advanced placement test and earn up to eight credit hours. Topics in lecture and laboratory include gas laws, intermolecular forces, kinetic molecular theory, acids, bases, chemical thermodynamics, nuclear chemistry, electrochemistry, environmental chemistry and organic chemistry.

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Prerequisite: None
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**AP Environmental Science**

This course is designed to be equivalent to an introductory university course in environmental science. It covers economic and ethical issues relevant to human understanding, use, and alteration of Earth's surface. Students examine spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice.

**Human Geography**

This course focuses on the history and foundation of the American Government, the American Constitution, the Legislative, Executive, and Judicial branches of government, the political system, state and local government, and citizenship. The course traces colonial history as cause and effect to the Founders' choices in creation of government. Units of study analyze the Constitution in application and as an evolving document of citizenship rights over time whether by President, Congress, the legal process and/or political action groups. Civics makes modern day connections, applies the spectrum of liberal and conservative political views, and provides macro- and micro-economics foundations as applied to policy. The Civics curriculum provides an understanding of the principles of economics that apply to an economic system as a whole. Emphasis is placed on the study of the business cycles, taxes as federal and state revenue, the Federal Reserve System, and an understanding of monetary and fiscal policy in America.

**Human Anatomy & Physiology**

This course focuses on the anatomy and physiology of humans including the structure and function of cells, tissues, and integumentary, skeletal, muscular, nervous, and endocrine systems. Coordinated laboratory experiments are an integral part of this course. Students learn the physiology of each body system, as well as how to investigate common diseases, disorders, and emerging diseases. The prevention, diagnosis, of disease and treatment are addressed.

**Human Ecology**

This course focuses on the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice.

**U.S. History**

This course begins at the reconstruction of the Civil War. It explores the political, social and economic development of our country as it builds to a world power in the late 1800's, crashes in a Great Depression of the 1930's, rises to a world police post- World War II, struggles internally within a Civil Rights movement, and fights the Cold War of communism. Students will utilize different methods that historians use to interpret the past, including varying points of view and historical context.
AP U.S. HISTORY
Level: Advanced Placement
Credit: 1 or 2 (Weighted)
Prerequisite: Minimum grade of C in U.S. Government & Economics or Qualifying Score. Completion of the Summer Assignment
The AP program in United States History is designed to provide students with the analytical skills and enduring understandings necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students will learn to assess historical materials—their relevance to a given interpretive problem, their reliability, and their importance—and to weigh the evidence and interpretations presented in historical scholarship. This course will develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in an essay format.

AP EUROPEAN HISTORY
Level: Advanced Placement
Credit: 1 (Weighted)
Prerequisite: None
The study of European history since 1450 introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live. Without this knowledge, we would lack the context for understanding the development of contemporary institutions, the role of continuity and change in present-day society and politics, and the evolution of current forms of artistic expression and intellectual discourse. In addition to providing a basic narrative of events and movements, the goals of the AP program in European History are to develop (a) an understanding of some of the principal themes in modern European History, (b) an ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing.

WORLD HISTORY
Level: College Prep
Credit: 1
Prerequisite: Completion of the Summer Assignment
This course will examine chronological eras of historical world events. Starting in the Middle Ages and ending with the onset of WWI, students will explore historical continuity and change, and link past events to modern day issues and current events. Students will develop the skills to compare and contrast events, analyze primary and secondary sources, interpret historical documents, and gain a deeper understanding of the complex/diverse world around them. Throughout the course students will apply themes of geography to historical time periods.

CONFLICTS IN HISTORY
Level: College Prep
Credit: 1
Prerequisite: None
This course will highlight a conflict in American History that changed the political, social, and cultural values of American society. This course will focus entirely on that the specified theme contextually in history. The historical theme will vary in focus but may include Era of Korea/Vietnam, Civil Rights Movement, Struggle of Women, World War II Generation, or American Conflict in the Middle East.

SOCIAL STUDIES ELECTIVES

SOCIETY AND MEDIA
Level: College Prep
Credit: 1
Prerequisite: None
The mass media are an inescapable feature of contemporary American society. Television, film, radio and other forms of mass communication dominate our leisure time. The media’s endless flow of stories, discourses and images shape our understanding of world events, our values, our politics, our desires, even our sense of self. This course provides a comprehensive survey of the history, structure, and social impact of the major media (books, magazines, newspapers, popular music, radio, film, television and the internet). We will also consider the history and impact of media-dependent industries such as advertising and public relations. And we will pay special attention throughout to the media’s central role in our democratic civic culture. The ultimate goal of the course is prepare students to think critically about the media and its enormous influence on our lives as citizens.

SOC 111: SOCIOLOGY (ONLINE)
Level: Dual Enrollment
Credit: 1 MHS & 3 DTCC
Prerequisite: SAT 480 ERW, Accuplacer Reading 78, Writing 84, or 75% in Technical Reading & Writing
This course provides an analysis of American social organization and culture, through a cross-cultural perspective. Sociology investigates, describes, and analyzes patterns of human behavior in all areas of human experience for the purpose of understanding the human condition.

PSYCHOLOGY
Level: College Prep
Credit: 1
Prerequisite: None
This course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. It is particularly designed for those who wish to acquire limited conversational skills for travel or the workplace, or who wish to start their study of Spanish gradually.
SPANISH ELECTIVES

SPANISH III
Level: College Prep  Credit: 1
Prerequisite: Spanish II
In Spanish III, vocabulary and grammatical forms are developed through reading and discussion of more comprehensive material. Oral and written communication are emphasized through writing assignments, vocabulary lists, and class-paced grammar review. The study of civilization and culture is expanded. All instruction is held primarily in Spanish.

SPANISH IV
Level: College Prep  Credit: 1
Prerequisite: Spanish III
In Spanish IV, the main emphasis is to further language abilities through conversation, composition, and study of Spanish literary works in the original language. The content of the course is supplemented with a continued study of grammatical forms. Writing style is improved through prepared as well as spontaneous themes. Students study Spanish and Latin American history, customs, and life styles to increase their appreciation of the Spanish culture. All work is conducted in Spanish.

AP SPANISH LANGUAGE & CULTURE
Level: Advanced Placement  Credit: 1 (Weighted)
Prerequisite: Minimum grade of C in Spanish IV or the Option to Test in AP Spanish Language and Culture
All work is conducted in Spanish. The AP Spanish Language course covers the equivalent of a college course in advanced Spanish Composition and Conversation. This course emphasizes oral communication, composition and grammar. All activities are conducted in Spanish. The Advanced Placement Spanish Program allows the opportunity to earn college credit in a foreign language.

CONCERT CHOIR
Level: College Prep  Credit: 1
Prerequisite: None
Choir is a vocal performance class focusing on the techniques of singing, music reading and group performance. Students will study and perform diverse styles of music from several music history periods. Regular attendance and active participation during rehearsals and performances is mandatory. Performances include various school and community functions, as well as the Winter and Spring Night of the Arts. Advanced participants are eligible to audition for the Delaware All-State Choir.

JAZZ BAND
Level: College Prep  Credit: 1
Prerequisite: Audition and at least 3 years (or equivalent) of training on a brass, woodwind or percussion instrument
This course focuses on performance of instrumental jazz literature. This course will help students evaluate, appreciate, and perform jazz music as an original American art form. Instrumentation is limited to select rhythm, brass, and woodwind instruments. Members must audition to be a part of the ensemble. This ensemble will perform regularly throughout the community during the school year.

MUSIC LITERACY I
Level: College Prep  Credit: 1
Prerequisite: None
This entry-level course focuses on the basics of learning to read and perform musical scores. Students are introduced to notation, language and terminology unique to the discipline of music. Emphasis is given to visual and aural recognition as well as performing skills. Application of skills will be performed on keyboards. This class is a prerequisite for Music Theory.

MUSIC LITERACY II
Level: College Prep  Credit: 1
Prerequisite: Music Literacy I
This intermediate-level course builds upon Music Literacy I concepts (notation, language and terminology, visual and aural recognition, and performing skills). Students will work on a varied repertoire that is prescribed at their individual level. Students will perform for master classes within the department. Application of skills will be performed on keyboards or another instructor-approved instrument.

MUSIC THEORY
Level: College Prep  Credit: 1
Prerequisite: Music Literacy I
This course offers an academic approach to music and music construction. Students will learn the fundamentals of time and sound, note and rest values, notation, chord identification and construction, key signatures, time signatures, as well as extended knowledge of intervals, scales, triads, melodic and harmonic analysis, construction and composition.

DRAWING AND PAINTING
Level: College Prep  Credit: 1
Prerequisite: Introduction to Visual Art
This course builds upon the foundation established in Introduction to Visual Art with immediate emphasis on advanced drawing and painting techniques. The student is required to create numerous works utilizing more challenging and original subject matter to communicate multiple layers of visual information.

ADVANCED DRAWING AND PAINTING
Level: College Prep  Credit: 1
Prerequisite: Drawing and Painting
This course encourages the exploration of individual directions in various art processes with an open syllabus and studio environment. The student will enhance drawing and painting skills, expressing high quality in all work including presentation and display. Works in this course may be used to build their Art Portfolio.

CERAMICS AND SCULPTURE
Level: College Prep  Credit: 1
Prerequisite: Introduction to Visual Art
This course builds upon the foundations established in Introduction to Visual Art using more challenging sculptural media and techniques emphasizing ceramics. Subject matter and media manipulation will be advanced and push student creativity to solve challenging visual arts problems while perfecting techniques and skills.

ADVANCED CERAMICS AND SCULPTURE
Level: College Prep  Credit: 1
Prerequisite: Ceramics and Sculpture
This class pushes the advanced sculpture student to create art works displaying highly refined skills in studio art and depth of context knowledge through research on a variety of artists. Students will be expected to create a legacy project which will remain at MHS beyond graduation. Students will be expected to write a concise and clear artist statement to accurately define theme and style choices made throughout the semester.
BUSINESS & FINANCE ELECTIVES

ACC 101: ACCOUNTING I (ONLINE)
Level: Dual Enrollment Credit: 1
Prerequisites: SAT 480 ERW and 500 Math, or Accuplacer Reading 76, Writing 84, and Math 67, or 75% grade in Technical Reading & Writing
ACC 101 is a Dual Enrollment course through Delaware Technical Community College. Students receive transcribed credit that may be presented to any college or university. Topics covered include preparing and analyzing financial statements in accordance with generally accepted accounting principles, analyzing data to process information for decision-making under a product and job costing system, applying tax laws to the preparation of tax returns and to tax plans, and integrating professional, ethical, and legal standards into business practices.

STRENGTH TRAINING
Prerequisite: Physical Education Credit: 1
This class is designed to improve general knowledge of weight training techniques for safety and effectiveness as well as how to implement and design a weight training program for present and future use. Students should be able to physically demonstrate proper lifting techniques and be able to explain how to build a strength training program that includes the proper usage of sets, reps and order of exercises.

FITNESS TRAINING
Prerequisite: Physical Education Credit: 1
This course is designed to give students the opportunity to learn fitness concepts and conditioning techniques used for obtaining optimal physical fitness. Fitness activities may include aerobics, flexibility training, jogging, Pilates, toning, yoga, speed walking, and cross training activities.

TEAM SPORTS
Prerequisite: None Credit: 1
This course provides opportunities for healthful and vigorous team activities. This course is designed for higher skilled individuals who wish to develop their techniques in a team setting. This course may include activities such as soccer, football, field hockey, basketball, volleyball, tennis, and others. Team and individual strategies are taught and game situations are used for practical application.

ADDITIONAL COURSE OFFERINGS

DELAWARE VOLUNTEER CREDIT
Prerequisite: None Credit: 1
The Delaware Volunteer Credit allows students grades 9-12 to earn one elective credit towards graduation upon completing 90 hours of community service during two semesters. The students do not have to be consecutive or in the same calendar year. Hours must be performed outside the student’s regularly scheduled school day. Volunteer hours completed as part of a service group requirement may also be used towards the Delaware Volunteer Credit. Volunteer activity cannot be political or advocacy in nature. Hours must be performed at a non-profit agency in Delaware. Service must be approved by the State Office of Volunteerism. Please inquire with your school counselor for more details.

ENGLISH AS A SECOND LANGUAGE

ENGLISH AS A SECOND LANGUAGE I
Prerequisite: None Credit: 1 (Elective)
This course is for non-English speaking students. Listening, speaking, reading, and writing skills will be developed around basic vocabulary needed for the student to survive in an English-speaking environment.

ENGLISH AS A SECOND LANGUAGE II
Prerequisite: None Credit: 1 (Elective)
This course is for limited English proficient students who need to continue developing their English language skills. Vocabulary will be expanded, and reading and writing will be strongly emphasized.

ENGLISH AS A SECOND LANGUAGE III
Prerequisite: None Credit: 1 (Elective)
This course is for limited English proficient students who need to practice all areas of English acquisition, including speaking and listening, but also focus more on reading and writing to prepare them for success in the mainstream classroom.

* Once students complete this course they may continue receiving tutorial assistance in completing their work requirements for other scheduled classes. Credit can still be obtained for elective purposes.

DRIVER’S EDUCATION Level: Grade 10 Credit: .5
Prerequisite: Must be Classified as a 10th Grader in August of Sophomore Year
Classroom study precedes driving lab. All students must be academically eligible to participate in the “on the road” training portion of this course. Only grade 10 students who meet the criteria may be enrolled. Students are scheduled according to the date of their sixteenth birthday and academic record. At the completion of this course, students will be prepared to enter the Delaware Graduated Driver’s License Program.

WEB PAGE DESIGN AND PUBLISHING
Prerequisite: None Credit: 1
Students develop proficiency in creating desktop publications, multi-media presentations/projects, and websites incorporating principles of layout and design using industry standard application software. Students design portfolios that may include business cards, newsletters, mini-pages, web pages, multimedia presentations/projects, calendars and graphics. Effective communication skills, both written and oral, will be stressed through the use of various computer software programs. Completion of this course may prepare students for industry certifications.

HONORS RESEARCH
Non-Credited
This is a support class designed to instruct students with monitoring their progress in these courses. This course is graded pass/fail.

SENIOR OPTIONS
Prerequisite: Application Required Credit: 1
Senior Options offers students the opportunity to further their education in a career area, demonstrate and extend career major competencies, and/or provide a service to the community. Students must apply to school counselors for acceptance and meet all requirements. Senior Options includes: College Coursework, Volunteer service, Internship, Cooperative work experience, or senior project.

STUDY SKILLS
Prerequisite: None Credit: 1
This is a support class designed to instruct students proper study technique as well as provide previewing and support for core content classes.

THESE COURSES DO NOT FULFILL GRADUATION REQUIREMENTS FOR ENGLISH, BUT DO GRANT GENERAL ELECTIVE CREDIT TOWARD GRADUATION.

HONORS RESEARCH
Non-Credited
This is a support class designed to instruct students with monitoring their progress in these courses. This course is graded pass/fail.

SENIOR OPTIONS
Prerequisite: Application Required Credit: 1
Senior Options offers students the opportunity to further their education in a career area, demonstrate and extend career major competencies, and/or provide a service to the community. Students must apply to school counselors for acceptance and meet all requirements. Senior Options includes: College Coursework, Volunteer service, Internship, Cooperative work experience, or senior project.

STUDY SKILLS
Prerequisite: None Credit: 1
This is a support class designed to instruct students proper study technique as well as provide previewing and support for core content classes.
## 4 YEAR PLAN

<table>
<thead>
<tr>
<th></th>
<th>Grade 9</th>
<th>Grade 10</th>
<th>Grade 11</th>
<th>Grade 12</th>
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</thead>
<tbody>
<tr>
<td><strong>Major Requirements</strong></td>
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</tr>
<tr>
<td>English:</td>
<td>4 Credits</td>
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<tr>
<td>Mathematics:</td>
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<td>4 Credits</td>
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<tr>
<td>Science:</td>
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<td>3 or 4 Credits</td>
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<td>Social Studies:</td>
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<tr>
<td>Health:</td>
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<tr>
<td>Physical Education:</td>
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<tr>
<td>Spanish:</td>
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<td></td>
<td>2 Credits</td>
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<tr>
<td>Major Electives:</td>
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<td>3.5 Credit Minimum</td>
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**MAJOR REQUIREMENTS**

<table>
<thead>
<tr>
<th>Grade 9</th>
<th>Grade 10</th>
<th>Grade 11</th>
<th>Grade 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>English:</td>
<td>English 9 or higher</td>
<td>English 10 or higher</td>
<td>English 11 or higher</td>
</tr>
<tr>
<td>Mathematics:</td>
<td>Algebra I or higher</td>
<td>Geometry or higher</td>
<td>Algebra II or higher</td>
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<tr>
<td>Science:</td>
<td>Physical Science or higher</td>
<td>Biology or higher</td>
<td>Choose one: AP Biology, Chemistry, AP Chemistry, Earth Science, AP Environmental Science, Physics, AP Physics</td>
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<tr>
<td>Health:</td>
<td>Health/Driver's Education</td>
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<tr>
<td>Physical Education:</td>
<td>Physical Education</td>
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<tr>
<td>Spanish:</td>
<td>Spanish I or higher</td>
<td>Spanish II or higher</td>
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<tr>
<td>Major Requirements:</td>
<td>3 Credits</td>
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<td>Suggested Electives:</td>
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ADOPTED: 1/25/99; 9/28/09  REVISED: 01/2017
#wearemilford

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