



Dover High School & Regional Career Technical Center

Class of 2022 Course Guide

February 14, 2018

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PLEASE NOTE: Descriptions of courses in this catalog do not constitute a guarantee that all courses will be taught during the coming school year. Dover High School reserves the right to cancel any class due to under-enrollment, scheduling issues, or budgetary constraints.

Dover High School and Regional Career Technical Center

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Peter Driscoll, Principal

Emily Sherman, Dean of Instruction
Kimberly Stephens, Dean of Students
Thomas Waldron, Dean of Students

Louise Paradis, Director of Career & Technical Education

Linda Madden, Student Services/Special Education Coordinator

NONDISCRIMINATION POLICY

It is the policy of Dover High School not to discriminate in its education programs, activities or employment practices on the basis of race, color, national origin, language, religion, age, sex or handicap under the provisions of Title VI of the Civil Rights Act of 1964, the Age Discrimination Act of 1967, Title IX of the Education Amendments of 1972, Section 705120 of the Rehabilitation Act of 1973 and the Education for all Handicapped Children Act of 1975. **Sexual harassment** is a form of unlawful discrimination and is against school district policy. Sexual harassment is described as an unpleasant environment caused by an unwelcome verbal or physical conduct of a sexual nature that interferes with an individual's academic performance. **A concern or complaint concerning sexual discrimination should be made to Louise Paradis (516-6978) or Donna Frank-Berchulski (516-6937).** Any person having inquiries concerning Dover High School's compliance with the regulations implementing these laws may contact the Dover School System (516-6804). Any person may also contact the Assistant Secretary for Civil Rights, U.S. Department of Education or the Director, U.S. Department of Education, Office for Civil Rights, Region I, John W. McCormack Post Office and Court House Square Room 502514 Boston, Massachusetts 02109.

*EXPECTATIONS FOR STUDENT
LEARNING*

Dover High School

Mission Statement

Dover High School is committed to the development of lifelong learners who strive to reach their full potential academically, civically, and socially. We will foster collaboration among students, teachers, administration, and the greater community to create a student-centered educational experience in a respectful and safe environment.

Core Values

Authenticity, Integrity, Personal Responsibility
Perseverance, Resilience, Respect, Compassion

Beliefs

We believe all students have the right to:

A safe and respectful learning environment

Individualized educational experiences

Inclusive and supportive community

Opportunities to pursue personal interests and passions

Access to technology, resources, and services

21st Century Learning Expectations

Academic Expectations

- Establish and pursue goals for personal growth, academic success, and career readiness
 - Access and critically analyze the source and value of information
 - Work independently as well as collaboratively to complete authentic learning tasks
 - Solve problems resourcefully and effectively using both traditional and innovative methods
- Communicate clearly and effectively with an understanding of our purpose and audience

Social

- Assume responsibility for one's actions
- Demonstrate respect for and acceptance of diversity
- Work cooperatively with others

Civic

- Make positive contributions to the culture and climate of the school
- Be involved and engaged in the greater community in meaningful ways

A MESSAGE TO FUTURE FRESHMEN AND THEIR PARENTS

Dear Future Freshmen and Parents,

The document you see before you is our attempt to simplify the Program of Studies to better serve the needs of our incoming freshmen and their parents. We recognize that being confronted with so much information can be overwhelming and can make it difficult to find exactly what you need to know.

The full Program of Studies contains much more information about things you may have interest in—such as honor roll and grade point average—and things that you probably don't need to worry about yet—like being a student aide or receiving credit for drivers' education. We encourage you to refer to it as you feel the need; it is an invaluable resource.

Peter Driscoll
Principal

Louise Paradis
Director of Career &
Technical Education

Emily Sherman
Dean of Instruction

Kimberly Stephens
Dean of Students

Thomas Waldron
Dean of Students

Sally Thorn
Director of School Counseling

Counseling SERVICES

Students generally make appointments to see their counselors, but any student who identifies a critical need will see a counselor immediately. In addition to meeting with students one-on-one, counselors present classroom curriculum and offer evening workshops for parents. They also facilitate student discussion groups around specific topics. Counselors manage 504 Plans, provide crisis intervention services, make referrals to outside agencies and coordinate a variety of programs and projects including peer mentors, peer tutors, student ambassadors, scholarships and college field trips.

FRESHMAN TIP:

When you get to Dover High School, you'll have the opportunity to meet with your guidance counselor to develop a four year plan, mapping out your individual path from enrollment to graduation.

Counselors welcome parent involvement and parents are encouraged to contact their student's counselor with questions regarding academic progress and/or personal-social issues. The counseling department includes six counselors, the registrar and the department secretary. Contact information is provided on the DHS website along with detailed information regarding Guidance activities.

PLANNING A COURSE OF STUDY

This Program of Studies has a lot of valuable information that is important for students to know and remember as they go through high school. Students should talk with their parents, Guidance Counselor and teachers to help them make the best selections. Make sure to review the graduation requirements as well as course descriptions to help you decide which classes to take. Make sure to consider your interests and think about what you might want to do after high school. Use the course descriptions and Meeting College Requirements for College Admissions sections to learn about the various courses offered that can help you explore different career fields. Students and parents who carefully consider these things when making course decisions will see the four years students spend in high school as the stepping stone to their future whether going to college, into the military, or directly into the workforce.

FRESHMAN TIP:

Though it may seem far off right now, life after high school will come sooner than you realize. Take time to consider what you want to do once you graduate and create a foundation to make your vision a reality!

GRADUATION REQUIREMENTS

Students are required to earn a **minimum of 26 credits to be awarded a Dover High School diploma.**

Dover High School will award a **Diploma of Distinction** to students who earn a total of **no less than 28 credits with a cumulative GPA of 3.0 or above.**

Required Courses for Standard Diploma and Diploma of Distinction	
Subject	Credits
English	4 credits
Mathematics (must include Algebra I)	4 credits
Social Studies (must include Global Studies, Economics, American Government, US History)	2 ½ credits
Science (must include 1 credit each in physical sciences and biological sciences, and .5 credits in earth sciences)	3 credits
Arts Education	1 credit
Computer Education	½ credit
Wellness Education (must include 1 credit Physical Education & ½ credit Health)	1 ½ credits
Electives (Distinction)	9 ½ Credits (11 ½)
TOTAL (Distinction)	26 credits (28 credits)

MEETING REQUIREMENTS FOR COLLEGE ADMISSION

Colleges prefer applicants who have taken a challenging high school program, who have demonstrated a strong work ethic, and who have shown development of skills and knowledge through a solid grade point average. In addition, many colleges will accept students with average grades who have demonstrated particular skills or exceptional qualities of character and leadership. As you plan, consider the guidelines below:

4-Year Colleges		2-Year Colleges, 3-Year Nursing Programs, Technical Schools	
Courses should be taken at the College Prep level or higher. AP and Honors Courses are highly encouraged for applicants to 4-year schools.		Courses can be a blend of College Prep and general level as well as CTC courses in a student's intended vocation.	
English	4 credits	English	4 credits
Social Studies	3-4 credits	Social Studies	3 credits
Mathematics	4 - 5 credits, including at least Algebra II	Mathematics	3 - 4 credits, including at least Algebra II
Science	3 - 5 credits	Science	3 - 4 credits
World Language	2 - 4 credits in the same language depending on college or major	World Language	0 - 3 credits depending on college or major
Electives	10 or more credits of electives should be chosen from those available based on personal interests, educational goals, and diploma type		

SUGGESTED SEQUENCE OF COURSES

FRESHMAN YEAR	SOPHOMORE YEAR
English 9 Math – Algebra I or Geometry Science – Physical Science/Earth Science Social Studies –Economics and Global Studies Physical Education I World Language – Spanish I, French I, or Latin I Electives –Computer, Art, Music, Academic Electives open to 9 th graders or Career Tech	English 10 Math –Geometry or Algebra II Science – Biology Social Studies – American Government Physical Education II and Health World Language – Spanish II, French II, or Latin II Electives –Business, Art, Music, Academic Electives or Career Tech.
JUNIOR YEAR	SENIOR YEAR
English 11 Math – Algebra II or Pre-Calculus Science – Chemistry Social Studies – US History (required) World Language – Spanish III , French III, or Latin III Electives – Advanced courses in Business, Art, Music, Career Tech or Core Departments	English Electives Math –Pre-Calculus or Calculus or other math elective Science – Physics or other science elective Social Studies Elective World Language – Spanish IV, French IV, or Latin IV Electives – Advanced courses in Business, Art, Music, Career Tech or Core Departments

SCHEDULES AND CLASS STANDING

Freshmen are expected to be in school for the full school day and be enrolled in seven classes per semester. They may take a maximum of one study hall per semester.

Freshmen must earn a minimum of **six** credits to be a member of the sophomore during their second year of high school.

INVOLVEMENT

Dover High School encourages student involvement and provides a wide-range of opportunities for students to participate in extra-curricular activities, including athletic teams, academic clubs, and interest-based clubs.

FRESHMAN TIP:

[Research shows](#) that students who are involved are more likely to graduate with their peers. Being involved helps you make new friends, acquire new skills, and get the most out of your high school experience.

ENGLISH CLASSES FOR FRESHMEN

10110 ENGLISH 9A

Grade 9

0.50 Credit/Semester

This course is designed for students needing to improve their reading and writing skills. Students receive individualized instruction through materials which expose them to both classic and contemporary literature. The ability to access and analyze information is central to this course. There is intensive work on developing strategies to build reading comprehension, vocabulary and writing skills.

10111 ENGLISH 9B

Grade 9

0.50 Credit/Semester

This is a continuation of the program begun in English 9A. Students may, however, begin the program either semester.

FRESHMAN TIP:

Take challenging courses and stick with them!

10120 COLLEGE PREP ENGLISH 9

Grade 9

1.00 Credit/Year

This course is an introduction to the major literary genres. Students will read classic as well as contemporary short stories, novels, plays, essays, and poetry from around the world, asking which human values are universal, which ones are culture-bound? How does one's culture both mold stories and affect the ways in which they are read? Through this exposure, students will improve comprehension by learning a variety of study skills and reading strategies that cross disciplines. Exploring literature in a variety of ways and responding in writing, students begin to find personal voice in their essays. Freshmen participate in a thorough library orientation unit culminating in a substantial research paper. Possible readings include *The Odyssey*, *Chinese Cinderella*, *Animal Farm*, *Nectar in a Sieve*, *Persepolis*, *Romeo and Juliet* and various poems and short stories.

10130 HONORS ENGLISH 9

Grade 9

1.00 Credit/Year

What types of literature exist in the world and why? Honors English 9 challenges students to think critically about the timeless human need to tell stories and the genres that shape their accounts and fantasies. Beginning with myth and folk tales, students will read representative works from many cultures, examining to what extent story is a cultural mirror. Students will study the elements of various genres through close reading of works such as *The Odyssey*, *Animal Farm*, *In the Time of the Butterflies*, *Persepolis*, *Romeo and Juliet*, *Othello*, numerous short stories and poetry. Honors students write intensively, practicing narrative, descriptive, expository and persuasive forms. Students participate in a thorough library orientation unit and produce a substantial research paper. Active participation is required.

REQUIRED: Recommendation of 8th grade teacher and completion of a summer reading assignment is required.

ENGLISH ELECTIVES (Includes some courses for senior English credit)

**** Note:** Except where noted, completion of these classes in grades 9-11 excludes a student from retaking the course as a senior.

102450 COLLEGE PREP ACADEMIC WRITING SEMINAR

Grades 9-10
Elective credit

0.50 Credit/Semester

This course is designed to help support and improve students' academic writing skills. Open to college bound freshmen and sophomores that want to improve their writing, students will receive instruction and practice with various forms of formal essay writing through direct instruction and in-class writing assignments. Individualized instruction, support, and feedback will be accessible for each student's needs. Topics covered will include developing a strong thesis statement, argument and research writing, analysis, citing evidence, effective use of quotations, and the use of MLA format. Students will also receive support with writing assignments from other courses. Writing assignments will be worked on within class time, with the expectation to complete assignments at home when necessary.

104262 COLLEGE PREP GRAPHIC STORYTELLING

Grades 9-12

0.50 Credits/Semester

This course is an in-depth exploration and examination of the comic book and graphic storytelling as a medium. From early comic strips to the graphic novel, from superheroes to anti-heroes this course explores the comic world from every angle. In a collaborative learning community, students will engage in active analysis, discussion, and creation. Students will consider graphic novels as literature, analyze formal structure as it relates to content, trace the development of theme including gender, race, identity, justice, existentialism, and heroism, and research the history and growth of the popular culture phenomenon called comics. Students will look closely at the special effects created in sequential art narrative and further appreciate the medium by writing, scripting, planning, and constructing a variety of graphic narratives or comics both independently and collaboratively. This course may be repeated for elective credit.

105510 ESOL - ENGLISH SPEAKERS OF OTHER LANGUAGES

Grades 9-12
1 English credit, 1 elective credit

2.00 Credits/Year

Placement of ESOL students into one of four instructional levels is determined by assessment of language proficiency. Instruction includes all domains of language: listening, speaking, reading and writing. The American culture will also be emphasized. Students will receive direct instruction as well as additional structured study time. One credit may be used to satisfy the English requirement and the remaining credit may be used as an elective. This course may be repeated for credit upon recommendation of instructor.

REQUIRED: Enrollment based on assessments and recommendation of ESOL teacher.

105512 ESOL - ENGLISH SPEAKERS OF OTHER LANGUAGES

Grades 9-12
English credit

1.00 Credit/Year

Placement of ESOL students into one of four instructional levels is determined by assessment of language proficiency. Instruction includes all domains of language: listening, speaking, reading and writing. The American culture will also be emphasized. Students will receive direct instruction as well as additional structured study time. This course may be repeated for credit upon recommendation of instructor.

REQUIRED: Enrollment based on assessments and recommendation of ESOL teacher.

108830 FOUNDATIONS OF LITERACY

Grade 9-12

2.00 Credits/Year

English Credits

This course will use Scholastic System 44, a metacognitive systematic approach that helps students understand that the English language is a finite system of 44 sounds and 26 letters that can be mastered. Basic decoding and encoding, as well as aspects of phonemic awareness will be taught and reinforced. There will be an emphasis on Tier 1 vocabulary and functional sight words. Students will read a variety of literature both independently and as a class to improve reading comprehension. There will also be a selection of writing exercises associated with the class readings designed to improve written language skills.

REQUIRED: Enrollment based recommendation.

108831 FOUNDATIONS OF LITERACY II

Grade 9-12

2.00 Credits/Year

English Credits

This course will use Scholastic System 44, a metacognitive systematic approach that helps students understand that the English language is a finite system of 44 sounds and 26 letters that can be mastered. Basic decoding and encoding, as well as aspects of phonemic awareness will be taught and reinforced. There will be an emphasis on Tier 1 and Tier 2 vocabulary and functional sight words. Students will read a variety of literature both independently and as a class to improve reading comprehension. There will also be a selection of writing exercises associated with the class readings designed to improve written language skills.

REQUIRED: Enrollment based on recommendation

108820 LITERACY LAB

Grades 9-12

1.00 Credit/Year

English credit

Literacy Lab is focused on the development of both student learning practices that respond to the demands of 21st Century literacy and the development of Tier 2 and Tier 3 vocabulary essential to literacy proficiency. Students will understand and apply learning strategies necessary to increase their reading, writing and language skills to meet demands in and beyond the classroom. In an environment made up of oral language and printed and digital material, the ability to access information, read critically, comprehend, and apply acquired knowledge to communicate effectively is crucial. Focus will be placed on the areas of listening, speaking, reading, writing and viewing analytically. In this course, students will understand how to access and use the skills and knowledge they possess, learn strategies needed to support those skills, and acquire the tools necessary to enhance their skills to become effective lifelong learners.

REQUIRED: Enrollment based on recommendation

108810 READ 180 Level I

Grades 9-12
English credits

2.00 Credits/Year

This course will assist students in developing reading comprehension through an interactive program and direct instruction. This course is designed for students who are transitioning from systematic instruction in phonemic awareness to a focus on reading comprehension skills. This course meets daily and is taught at a slower pace in order to provide students multiple experiences to maximize mastery of skills. Students will read a variety of literature both independently and as a class to improve reading comprehension and fluency. There will also be a selection of activities designed to improve writing skills.

REQUIRED: Enrollment based on recommendation

108811 READ 180 LEVEL I

Grade 9

1.00 Credit/Year

This course will assist students in developing reading comprehension through an interactive program and direct instruction. Read 180 is one of the premier reading intervention programs. It is used in over 15,000 classrooms across all 50 states and is proven to assist students to achieve measurable gains. Students will read in every class and utilize reading strategies to reinforce comprehension. Each student will monitor and evaluate his/her own progress with the instructor. Students will have in class reading assignments as well as assigned weekly Reading Logs. There will also be a selection of activities designed to address writing skills. Upon the conclusion of this class students will complete Workshops 1-4 and will either move on to Read 180 Level III, Literacy Lab or English.

REQUIRED: Enrollment based on recommendation

UNIFIED DRAMATICS

This is an introductory level course in theater arts. Students whose reading, communication and social skills are well below grade level will have the opportunity as mentees to explore the genre of drama, working with typical peers and eventually performing in front of an audience. Two-thirds of the students in this class will be strengthening their basic language arts skills as mentees, while mentor students are invited to enroll to practice the skills of modeling and problem solving. Performances will include all students.

REQUIRED: MUST HAVE PERMISSION OF TEACHER TO ENROLL.

108863 UNIFIED DRAMATICS (MENTEE)

Grades 9-12

This course can be repeated for elective credit.

0.50 Credit/Semester

MATHEMATICS CLASSES FOR FRESHMEN

Technology is assuming an ever-increasing role in our society, both in the workplace and in everyday life. A thorough knowledge of mathematics is the foundation upon which much of this technology is built. Students need to have even stronger backgrounds in mathematics if they are to be prepared for the internationally- competitive jobs in the 21st Century. Thus, every student at Dover High School is encouraged to take all the mathematics courses he or she can possibly handle. The mathematics department will adopt the use of the Texas Instrument 83 plus (TI 83 plus) or TI-84 plus graphing calculator. Should a student wish to purchase a calculator, we encourage students to select one of these models. The homework expectations for math courses are as follows: Basic level math courses assign an average of one hour per week, CP level math courses assign two-three hours per week, and honors level math courses assign three-five hours per week.

201110 ALGEBRA I

Grades 9-11

1.00 Credit/Year

An Algebra I course that addresses primarily linear relationships at a moderate pace. The areas of focus include variables, solving equations, graphing and the real number system.

REQUIRED: Teacher recommendation.

FRESHMAN TIP:
Strong math skills are an [essential foundation](#) for success whether your destination after high school is college or work.

201210 COLLEGE PREP ALGEBRA I

Grade 9-10

1.00 Credit/Year

An Algebra I course that addresses primarily linear relationships at a traditional pace. The areas of focus include variables, solving equations, graphing and the real number system. Additional topics will include exponents, polynomials, quadratics and some statistics.

REQUIRED: Teacher recommendation.

201310 HONORS ALGEBRA I

Grade 9

1.00 Credit/Year

An Algebra I course that addresses primarily linear relationships at a rigorous pace. The areas of focus include variables, solving equations, graphing and the real number system. Additional topics will include exponents, polynomials, quadratics and some statistics. All topics will include advanced problem solving with an emphasis on word problems and critical thinking skills.

REQUIRED: Teacher recommendation.

202220 COLLEGE PREP GEOMETRY

Grade 9-12

1.00 Credit/Year

A Euclidean Geometry course that addresses primarily measurement of geometric figures at a traditional pace. The areas of focus include a review of solving one variable equations, logic and reasoning, measurement of angles and segments, congruence, similarity, transformations, polygons and circles, probability and surface area and volume. Additional topics include formal geometric proofs, right triangle trigonometry, and area of regular polygons.

REQUIRED: Successful completion of CP Algebra I and teacher recommendation.

202320 HONORS GEOMETRY

Grades 9-10

1.00 Credit/Year

This is a course in Euclidean and Analytic Geometry in which students will learn to visualize, analyze, and reason formally at a rigorous pace. An emphasis is placed on the understanding and use of formal proofs. Students will prove properties of congruence of triangles and other various polygons, and the relationships involved with similar figures. Students will review and strengthen algebraic skills as they master and apply their geometric knowledge. Throughout the course the relevancy of geometric concepts in the real world will be stressed. This is a rigorous course that moves at a fast pace, examines topics in depth, emphasizes critical thinking skills, and fosters conceptual knowledge.

REQUIRED: Successful completion of Honors Algebra I and teacher recommendation.

203330 HONORS ALGEBRA II

Grades 9-11

1.00 Credit/Year

A second year Algebra course that addresses linear and non-linear equations at a rigorous pace. Additional topics will include quadratic, polynomial, radical, rational, exponential and logarithmic functions and relations, sequences and series, and the binomial theorem. All topics will include advanced problem solving with an emphasis on word problems and critical thinking skills.

REQUIRED: Successful completion of Honors Algebra I and teacher recommendation.

208820 LIFE SKILLS MATH

Grades 9-12

2.00 Credits/Year

This program is appropriate for students who have difficulties with functional math skills. Money skills will be the primary focus throughout the course and will include understanding the value of money and budgeting. Math skills will be addressed through following recipes, completing class projects, and other activities such as consumer money skills, time, time management, and measurement. Topics will also include math related vocabulary, safety, restaurant and supermarket words. This class meets daily to provide multiple experiences to maximize mastery of skills. Homework is minimal.

REQUIRED: Enrollment based on recommendation

208821 MATHEMATICS ENRICHMENT 1D

Grades 9-12

2.00 Credits/Year

This class is a highly structured direct instruction classroom which meets daily. This course is open to 9th and 10th graders. Students in grade 11 and 12 will be considered based on data driven information and team decision. This course will cover real world problem-solving to further develop critical thinking skills. It will focus on elementary remedial math skills, including addition, subtraction, and multiplication without regrouping, division and divisibility, area, volume, perimeter of polygons, as well as measurement of angles, and solving for missing angles. Other topics will include a review of fractions, including all operations with like and unlike denominators. Any homework assigned will be due two class periods after date assigned. Students will develop skills necessary to be successful in Math Enrichment 2D or Pre-Algebra 1D.

REQUIRED: Enrollment based recommendation.

208822 MATHEMATICS ENRICHMENT 2D

Grades 9-12

2.00 Credits/Year

This class is a highly structured direct instruction classroom which meets daily. This course is open to 9th and 10th graders. Students in grade 11 and 12 will be considered based on data driven information and team decision. This course will cover real world problem-solving to further develop critical thinking skills. It will focus on middle school remedial math skills using the operations of addition, subtraction, multiplication and division with rational numbers, integers, decimals, exponents, ratios, and percents, with an introduction to equations, expressions and solving for variables. Minimal homework will be assigned. Students will develop skills necessary to be successful in Pre-Algebra 1D, Algebra 1D, or Algebra I.

REQUIRED: Enrollment based recommendation.

208823 PRE-ALGEBRA 1D

Grades 9-12

1.00 Credits/Year

This is class meets daily and is designed to offer students the opportunity to successfully complete the essential topics of Pre-Algebra 1. The content of this course will focus on the following strands: Numbers and Operations of Rational Numbers; Geometry and Measurement; Algebra Relations and Functions; Data, Statistics, and Probability; Problem Solving; Reasoning, Communications and Connections. The student will also learn to solve multi-step equations, create and interpret graphs, and organize data. Homework will be given daily with an opportunity to complete in class or be completed at home. Upon successful completion of this course, students will move on to Algebra 1D.

REQUIRED: Enrollment based recommendation.

208824 ALGEBRA 1D

Grades 9-12

1.00 Credits/Year

This class meets daily. This course is designed to offer students the opportunity to successfully complete the essential topics of Algebra 1. The content of this course will focus on the following strands: Numbers and Operations of Rational Numbers; Geometry and Measurement; Algebra Relations and Functions; Data, Statistics, and Probability; Problem Solving; Reasoning, Communications and Connections. The student will also learn to solve multi-step equations, create and interpret graphs, and organize data. The class will meet daily for a half block with a half block of math support in order to work on reinforcing class concepts.

Homework will be given daily. Upon successful completion of this course students will move on to Geometry, Math and Money, or Math Applications.

REQUIRED: Enrollment based on recommendation. NOTE: This class meets the Algebra I requirements

SCIENCE CLASSES FOR FRESHMEN

The Science Department's multi-level curriculum has been designed to provide a sequential program of studies which recognizes student needs to prepare for future education as well as to prepare those students whose formal education will terminate upon graduation. To meet this goal, the curriculum addresses the need for the student to think critically, solve problems resourcefully and effectively, read, write and speak effectively, and access and analyze information.

EARTH and SPACE SCIENCE

This freshman course functions as a capstone to all previously required Earth and Space Science educational experiences. It also develops research and data analysis skills that are essential for success in future high school science courses. Students will investigate current theories that describe the origin of the Universe, the life cycles of stars and the origin of the Solar System. Students will review the major Earth systems and explore how matter and energy move between them. Students will then examine the structure of the solid Earth, and the unifying Theory of Plate Tectonics. Students will finally explore geologic cycles including the carbon cycle, the water cycle and the rock cycle, which provide models for the interrelatedness of the materials that make up the Earth and the internal and external processes that create, change and move them.

301115 EARTH AND SPACE SCIENCE

Grade 9

0.50 Credit/Semester

This course covers the Earth Science concepts that are essential to understanding our planet and how humans depend on it. Emphasis is placed on guiding students as they discover practical applications of their growing knowledge of Earth processes. Students can expect academic support and adjustments for individual learning styles. Students will complete curriculum unit projects individually and in small groups. Students can expect 1-2 hours of homework per week.

REQUIRED: Recommendation from Middle School Science Teacher

301215 COLLEGE PREP EARTH AND SPACE SCIENCE

Grade 9

0.50 Credit/Semester

This level is designed for students who want to understand the fundamentals of Earth Science. College-Prep students have reading, writing, and math skills that are at (or above) grade level. CP students will complete individual curriculum unit projects and an independent research project. Students can expect 2-3 hours of homework per week.

REQUIRED: Recommendation from Middle School Science Teacher

301315 HONORS EARTH AND SPACE SCIENCE

Grade 9

0.50 Credit/Semester

This level is designed for students who want to explore Earth Science concepts at a deeper level. Honors students are capable of applying their advanced reading, writing, and math skills in conjunction with an ability to work independently to complete both curriculum unit projects and individual research projects. Students can expect 3-4 hours of homework per week.

REQUIRED: Recommendation from Middle School Science Teacher

PHYSICAL SCIENCE

This laboratory-oriented course is designed to introduce the student to concepts and interactions of matter. The course will begin with a brief review of the concepts of measurement, then go into the physics of motion and energy. A study of atomic structure, the periodic table, chemical bonding, chemical reactions, and oxidation-reduction will enable the student to understand the nature of matter and the physical processes which occur in our everyday lives. The chemistry section will conclude with a brief study of organic and nuclear chemistry. The physics will continue with electromagnetism, electrical production, energy production and use.

301110 PHYSICAL SCIENCE

Grade 9

0.50 Credit/Semester

This course will explore the physical science topics using guided reading notes, lab experiments with less emphasis on the math that proves the results, and writing that shows understanding of the results. Students can expect up to 1 hour of homework per week.

REQUIRED: Recommendation from Middle School Science Teacher

301210 COLLEGE PREP PHYSICAL SCIENCE

Grade 9

0.50 Credit/Semester

This is designed for students in a post graduate track, who have grade level reading, writing and math skills. Students are expected to be able to conduct lab experiments, assess lab data, and produce summaries that show understanding of the concepts being taught. Students can expect up to 2 hours of homework per week.

REQUIRED: Recommendation from Middle School Science Teacher

301310 HONORS PHYSICAL SCIENCE

Grade 9

0.50 Credit/Semester

This is intended for self-motivated students who are independent learners, have excellent reading comprehension skills and the math ability to solve the more complicated algebraic equations that are used in physical science. The topics are extended into such areas as thermodynamics when dealing with energy and oxidation reductions when learning about electron transfer in a reaction. Students can expect 2-3 hours of homework per week.

REQUIRED: Recommendation from Middle School Science Teacher and enrollment in honors math

304140 HOW THINGS WORK

Grades 9-12

0.50 Credit/Semester

This physical science course is based on exploratory learning and utilizes technology as a tool for exploration. Students will spend their time researching the science behind how everyday items work, their history and impact on society. Labs will be virtual and/or actual dissection of the item students choose to investigate. The instructor will facilitate learning through guided inquiry and place the emphasis for learning on the student. In addition, the instructor will teach to topics that arise as the students perform their research.

Presentations and project reports will be turned in at the completion of each project. These presentations and projects make up the majority of the student's grade, along with labs, homework and quizzes. Students can expect up to 2 hours of homework per week, depending on the topics being covered and the presentations being worked on.

* Can be used towards the graduation requirement for Physical Science

LIFE SCIENCE

302320 HONORS BIOLOGY

Grade 9-10

1.00 Credit/Year

This student-centered, lab-based course has been designed to meet the needs of students who are self-motivated, accelerated readers, and are ready for a rigorous academic challenge. Students will explore major themes in biology while gaining experience with science and engineering practices. Students will be expected to work independently to read scientific text, analyze data, support an argument with evidence, and communicate scientific information both in and out of class. The course is structured around four units including evolution, genetics, matter & energy, and ecosystems. Students can expect a minimum of 45 minutes of homework per class.

REQUIRED: Successful completion of CP or Honors Earth & Physical Sciences

NOTE: This course is available to freshmen by recommendation of 8th grade Science teacher or Guidance Counselor on a space available basis

ELECTIVES

301220 GREENHOUSES, GARDENS, AND GOLDFISH

Grades 9-10 (Grades 11-12 on space available basis)

0.50 Credit/ Semester

Are you interested in caring for large tropical plants in the "jungle" or growing and harvesting fruits, vegetables, and herbs that are sold in our farmers market? Come operate a small farm and deliver freshly harvested produce to our culinary program, the school cafeteria, students, and staff. Manage our inventory, price lists, and sale logs and experience what it is like to work in a greenhouse and community garden. Want to learn how to set up and maintain a freshwater aquarium? Assist in caring for our growing population of rescued turtles. Design and care for aquariums full of ornamental fish while marketing and selling them through our classroom store "Petals & Fins".

301221 AQUATIC ANIMALS

Grades 9-12

0.50 Credit/Semester

Create a saltwater aquarium for the growth of clownfish, blue tangs, sea stars, sea urchins, and more! Design habitats for native crayfish, frogs, and turtles. Hatch and raise brook trout, collect and care for fish from the Cochecho River with the New Hampshire Fish and Game, and raise blue-channel catfish in the greenhouse ponds. Construct habitats for fish breeding and parenting. Develop a fish nutrition plan while diagnosing and treating diseases of various fish. If you loved the fish component of Introduction to Life Sciences:

Greenhouses, Gardens, and Goldfish, then this is the course for you!

REQUIRED: Greenhouses, Gardens, and Goldfish!

UNIFIED SCIENCE

Unified Science provides students with a comprehensive science education program. The course is designed to instruct mentees using a hands-on, lab-based format to meet individual student needs. Mentees work toward developing science process skills through exploration of concepts in earth, life, and physical sciences. In addition, the course offers opportunities for a limited number of peer partners who have completed required science courses to serve as mentors.

REQUIRED: MUST HAVE PERMISSION OF TEACHER TO ENROLL.

308810 UNIFIED SCIENCE A (MENTEE)

Grades 9-12

0.50 Credit/Semester

308811 UNIFIED SCIENCE B (MENTEE)

Grades 9-12

0.50 Credit/Semester

SOCIAL STUDIES CLASSES FOR FRESHMEN

REQUIRED SOCIAL STUDIES COURSES FOR GRADE 9

401210 ECONOMICS

Grade 9

0.50 Credit/Semester

Economics aims to help students forge links between economic issues and their own lives. The course focuses on the following interrelated content areas: basic economic principles, the American business structure, economic performance, GDP and fiscal policy, money, banking and monetary policy, the international picture and personal economics. This course emphasizes reading, writing, discussion, debate, and cooperative learning skills and techniques.

401310 HONORS ECONOMICS

Grade 9

0.50 Credit/Semester

Students enrolled in this course will study the material described in Economics. This course emphasizes critical thinking, interpreting documents, and writing.

REQUIRED: Middle School counselor recommendation

401215 GLOBAL STUDIES

Grade 9

0.50 Credit/Semester

This course covers physical and cultural geography around the world. Each region's study includes the geographic area as well as a historical and cultural overview. Emphasis is placed on developing an understanding of cultures, recent events in the world and the effects of those events on different societies. Reading, writing, discussion, debate, and cooperative learning skills and techniques will be used. Students will review historical fiction as part of the course. Reading, writing, discussion, debate, and cooperative learning skills and techniques will be emphasized.

401315 HONORS GLOBAL STUDIES

Grade 9

0.50 Credit/Semester

Students enrolled in this course will study the material described in Global Studies. An emphasis is placed on critical thinking skills, interpreting documents, and essay writing.

REQUIRED: Middle School counselor recommendation

ELECTIVE SOCIAL STUDIES COURSES AVAILABLE TO GRADE 9

405210 CURRENT EVENTS

Grades 9-12

0.50 Credit/Semester

Current events delve into international, national, and local events as they pertain to the political and social problems of today. Daily newspapers and magazines are used to support student writing and class discussions.

405211 THE MODERN UNITED STATES

Grades 9-12

0.50 Credit/Semester

The area of study that often gets only gets a cursory acknowledgement due to time constraints. The focus of the course will be The Cold War, Civil Rights, Vietnam and 1980's Conservatism. The topics should encourage students to analyze multiple viewpoints on the issue and identify which point of view they most support. Extensive reading and writing are staples of the course.

405213 U.S. PRESIDENCY

Grades 9-12

0.50 Credit/Semester

This course examines our presidents and presidential leadership and its role in America. The course will study the President as administrator, policy maker, and political leader. The relationship between the President and the public, the media, and other governmental institutions will be a highlight. Historical and constitutional background of the Presidency, role and powers of the President in domestic and foreign affairs and the historical impact of the President will be emphasized. Each time period and its specific presidents will be covered. Reading and writing are staples of the course.

405222 WORLD RELIGIONS

Grades 9-12

0.50 Credit/Semester

This course will examine the major world religions from a secular viewpoint. The course will follow the development, growth and impact that religion has had on the world. By examining relative documents, beliefs, practices, and doctrine, students will be better able to understand events that make-up and continue to influence world events. Religions examined will include Judaism, Christianity, Islam, Buddhism, Hinduism, and others as time permits.

405230 AMERICAN POPULAR CULTURE: 70'S TO THE PRESENT

Grades 9-12

0.50 Credit/Semester

From Watergate to the Touch-screen phones, students will get a comprehensive view of the United States cultural history and how it applies to their lives. Students will review the cultural, economic, and political changes to the landscape with the change from an Industrial country to an Information/Technology-based country. A research project and oral presentations are required components for this course.

405232 HISTORY AND CULTURE OF THE SEACOAST AND NEW HAMPSHIRE

Grades 9-12

0.50 Credit/Semester

This course will focus on Dover, the seacoast and NH area from pre-colonial settlement through the 20th century. Students will explore how historical events, economics, and geography of the area affected the lives of citizens, impacted local and national history, and created the current culture. Research, accessing and

analyzing information, written communication, and reading will be among the academic skills students will apply and improve throughout the course.

405234 ARCHAEOLOGY

Grades 9-12

0.50 Credit/Semester

This course will provide students with an introductory level experience in studying culture through the excavation of physical remains. Case studies will highlight ancient societies and illustrate the various methods used to interpret them. Particular attention will be paid to the rich opportunities for understanding local history including the excavation digs at Strawberry Bank in Portsmouth and South Berwick, Maine.

405244 NATIVE AMERICANS OF NORTH AMERICA

Grades 9-12

0.50 Credit/Semester

This course will examine the social, spiritual, and cultural history of American Indians revealing their distinct and diverse history. Students will examine literature, art, film and other media to enhance understanding of both Indian culture and the history of North America. Students will read novels, write research papers and complete a technology based project during the course.

WELLNESS CLASSES FOR FRESHMEN

The Wellness Education Program stresses the benefits of being physically, mentally, and socially healthy through real life application. The State of New Hampshire requires a full credit of physical education and a half credit of health for all students. The Dover High School Wellness program is designed around the 21st. century learning and performance based assessments to meet the needs of every student. Students complete these credits through a combination of required and elective courses. Physically active participation is a requirement in all wellness classes other than Health and Athletic Training.

We suggest the following sequence of courses:

Freshman Year	Physical Education I
Sophomore Year	Physical Education II and/or Health

701110 PHYSICAL EDUCATION I

Grade 9

0.50 Credit/Semester

This course is comprised of mainly fitness based activities for students to “get moving” and be physically active. Students will learn how to enhance their personal health and fitness. Topics include aerobic and anaerobic fitness but will be differentiated for all levels of fitness. Students will be graded on performance assessments as well as effort. In addition, team game concepts and project adventure-based activities will encourage lifetime fitness.

NOTE: Required for all freshmen as space allows.

702120 HEALTH

Grades 10 (Grade 9 on a space available basis)

0.50 Credit/Semester

This course stresses the physical, mental, and social aspects of health. Units will be designed to enhance a student’s awareness of health related issues such as nutrition, human sexuality, substance abuse and misuse and other related current issues in the health class.

REQUIRED: Successful completion by the end of sophomore year as space allows.

UNIFIED WELLNESS

This course will provide students with a comprehensive Wellness Education program. Mentees will work toward achieving lifelong personal wellness habits by fitness training and learning positive health skills daily. Mentors will be provided opportunities to develop mentoring skills by practicing various techniques helping classmates in the development of habits of healthy living. Attendance at either a Regional or State Special Olympics program as a participant or volunteer is required. Mentees who take 1.5 credits of Unified Wellness will receive credit for Physical Education and Health.

REQUIRED: MUST HAVE PERMISSION OF TEACHER TO ENROLL.

705110 UNIFIED WELLNESS (MENTEE)

Grades 9-12
G&W Days

This course can be repeated for elective credit.

Up to 1.00 Credit/Semester-

WORLD LANGUAGE CLASSES FOR FRESHMEN

The United States must educate students who are equipped linguistically and culturally to communicate in our democratic society and abroad. This is the philosophy of The National Standards for Foreign Language Learning in the 21st Century which calls for a future in which students are well-versed in English and at least one other language, modern or classical.

The natural outcome of student participation in our rigorous curriculum will be the development of 21st century skills, such as: cross-cultural competence, global awareness, multiple literacies, critical thinking/problem solving, collaboration, flexibility and adaptability, and mutual responsibility.

All of our courses are aligned with the New Hampshire Department of Education World Language Competencies which adhere to the National Standards and Common Core Learning Standards.

601110 WORLD TRAVEL AND CULTURE

Grades 9-12

0.50 Credit/Semester

In our globalized society, the need for informed, confident, and culturally sensitive travelers becomes necessary. This course promotes cusses for the traveler in a business and/or vacation venue. Students will acquire the skills necessary to plan, survive and enjoy travel abroad.

Students who have demonstrated competency by achieving an 80% or higher on the CP level 1 final exam in a world language may enroll in an upper-level language class.

World Language Course Offerings and Sequence For the Four-Year College Bound Student College Preparatory (CP)						World Language Course Offerings	
Year I	CP Latin I		CP French I		CP Spanish I		CP Spanish I Part 1
Year 2	CP Latin II		CP French II		CP Spanish II		CP Spanish I Part II
Year 3	CP Latin III	Honors Latin III	CP French III		CP Spanish III		
Year 4	CP Latin IV	Honors Latin IV	CP French IV	Honors French IV	CP Spanish IV	Honors Spanish IV	CP Spanish II

French Language Programs

601220 COLLEGE PREP FRENCH I

Grades 9-12

1.00 Credit/Year

Students will learn to speak, listen, read, and write in French about everyday topics such as meeting friends, describing themselves and their daily activities. Through daily assignments, projects, real-life applications, videos, and various cooperative learning activities, students will learn about French culture in the world, study two authentic French films, and two Impressionist artists. This is the first course leading to French IV. The course is recommended for students who prefer a fast paced course

602220 COLLEGE PREP FRENCH II

Grades 9-12

1.00 Credit/Year

Students will expand and develop their speaking, listening, reading and writing skills in present, past and future tenses. Topics include entertainment, health care, travel, banking, food, and driving in France. Students will participate in various creative cooperative learning activities through real-life applications. They will study two authentic French films, three Impressionist artists, and complete a major project on French regions and cuisine. This course is recommended for students who prefer a fast paced course.

REQUIRED: 80% or higher in French I or teacher recommendation or demonstrated competency on entrance test.

Latin Language Program

601230 COLLEGE PREP LATIN I

Grades 9-12

1.00 Credit/Year

Life in Pompeii: Students learn about the daily life of a Roman family and compare Roman life, customs and language to their own. They study the relationship of Latin to English through vocabulary and grammar. Students discover life in Ancient Pompeii and Roman Britain and encounter the Roman cultural aspects of a Roman city, including the Forum, the theatre, the baths, and the Amphitheatre. Students also examine Roman beliefs about life after death, education, slavery, elections, and the destruction of Pompeii. Students will connect Roman and Greek mythology to their study and relate its impact on Western Civilization. This is the first course leading to Latin IV.

Spanish Language Programs

601140 CP SPANISH I Part I (Formerly SPANISH I)

Grades 9-12

1.00 Credit/Year

In this course, students will begin to master the present tense all while learning to introduce themselves and say where they are from, give their phone and emails, tell time, give dates, describe people, ask someone's age and birthday, talk about everyday activities and daily routines and their frequency, talk about class schedules, describe school materials, describe people and family relationships, talk about where you and others live, learn to comment on food, take and order and make polite requests, and talk about meals. Students will also begin their exploration of the 21 Spanish speaking countries of the world. This course is designed for students who prefer a slower pace to learn the basic concepts of Spanish and will cover the first half of the Spanish I curriculum with more practice activities than in Spanish I. It will also include films, videos, and CD's. The course focuses on speaking in the present tense and emphasizes the importance of reading, writing, speaking, and interacting.

Note: This course is the first of 2 courses potentially leading to CP SPANISH II.

601141 CP SPANISH I Part 2 (Formerly SPANISH II)

Grades 9-12

1.00 Credit/Year

In this course students will continue to study and master the present tense as well as be introduced to the basic preterit tense. They will continue to explore the language and culture of the Spanish speaking people in Latin America and Spain through topics such as sports, wellness, going on vacation and leisure activities. This course is designed for students who work at a slower pace to learn the basic concepts of Spanish. This course will encompass the second half of Spanish I and will also include a Spanish reader, films, videos, and CD's.

REQUIRED: Successful completion of Spanish I, or 70% or higher in Fundamental Spanish I, or demonstrated competency on entrance test.

601240 COLLEGE PREP SPANISH I

Grades 9-12

1.00 Credit/Year

In Spanish I, students will master the present tense all while learning to introduce themselves and say where they are from, give their phone and emails, tell time, give dates, describe people, ask someone's age and birthday, talk about personal likes and dislikes, talk about everyday activities and daily routines and their frequency, talk about class schedules, describe school materials, invite someone to do something and make social plans, describe people and family relationships, talk about where they and others live, learn to comment on, take, and order and make polite requests, and offer help and give instructions using informal commands. Students will also begin their exploration of the 21 Spanish speaking countries of the world. This course is the first in the series leading to the Spanish IV course.

602240 COLLEGE PREP SPANISH II

Grades 9-12

1.00 Credit/Year

In Spanish II, students will master reflexive verbs, pronoun placement and the past tense. They will also learn to discuss daily routines, talk about how one feels and give advice, ask for and offer help in a store, learn to make comparisons, learn how to talk on the phone, discuss prices and monetary units, talk about holidays and prepare for parties, ask for and give information and talk about a trip. This course will also include a Spanish reader and a survey of prominent Spanish and Latin American artists. Students will continue their exploration of the 21 Spanish speaking countries. **REQUIRED: 80% or higher in Spanish I or teacher recommendation or demonstrated competency on entrance test.**

VISUAL ARTS CLASSES FOR FRESHMEN

Visual Arts Program Skills Requirements:

Skill Level 1 = No Previous Skills
Skill Level 2 = Basic/Prerequisites Met

Skill Level 3 = Proficiency
Skill Level 4 = Advanced

501500 INTRODUCTION TO THE ARTS

Grades 9-12

Skill Level: 1-2

0.50 Credit/Semester

This class is an in-depth exploration and examination of processes in two-dimensional and three-dimensional art, such as drawing, painting, collage, printmaking, ceramics, sculpture, environmental and performance arts and animation / graphic design. Students will be focusing on the principle content standards of creative expression, aesthetics and criticism, as well as, cultural heritage. Talking and writing about the creative process is introduced. This is a foundation and prerequisite course that prepares students with the technical and creative problem-solving skills required for successful engagement in more advanced studio art classes.

NOTE: Students who wish to omit participation in this course must submit to a portfolio and visual arts competency review. Inquiries and more information for this option can be made to the Dover High School Visual Arts Academic Coordinator by calling 516-6965.

501280 HOUSING AND INTERIOR DESIGN

Grades 9-12

Skill Level: 1-4

0.50 Credit/Semester

In this course students learn how to design and furnish rooms and spaces using current 21st century professional programming. Students will be working with Chief Architect (CAD) to design spaces for a range of different clients, learn about both interior and exterior design, and how color theory can affect a space. This class is for any student who is interested in design, landscaping or commercial design and may want to pursue interior design as a career.

501523 INTRODUCTION TO WOODWORKING

Grades 9-10 (Grades 11-12 on space available basis)

0.50 Credit/ Semester

This course will engage students in applying those fundamental skills and basic knowledge related to woodworking technologies. This will be a hands-on and supportive experience that will give students the opportunity to understand and experience the techniques, skills adaptations and changing technologies associated with this area. In addition, students will identify the career opportunities and fields of specialization associated with these technologies. Integrated into this program are important 21st century skills such as information and media literacy, critical thinking, cooperative work groups, self-direction, creativity and a positive work ethic.

501514 DRAWING

Grades 9-12

Skill Level: 2-4

0.50 Credit/Semester

This course is a beginning level drawing class that covers specific drawing techniques, such as perspective, value studies, and subject matter like self-portraiture and observational objects. Students will learn how to

use different drawing media, keep a sketchbook/journal, talk and write about the creative process and critique their own and classmate's artwork.

REQUIRED: Successful completion of Intro to Art* and have teacher recommendation or submission of a portfolio and competency evaluation.

501518 PAINTING

Grades 9-12 Skill Level:2-4 0.50 Credit/Semester

This course is a beginning level painting class. Students will develop an understanding of basic color theory and how it relates to various media. Pastels, acrylic paint and watercolor paint are the focus and primary media utilized for this course. In addition to learning diverse techniques with the above media, students will explore a variety of topics and subject matter, including art history, self-portraiture, still life, and abstraction. Students are expected to keep a sketchbook/journal, write, talk, and critique their own and other's artwork.

REQUIRED: All students must successfully complete Intro to the Arts and have teacher recommendation or submission of portfolio and competency evaluation and completion of Drawing..

NOTE: A \$25 Lab Fee for acrylic and watercolor paints, canvas and other consumable supplies and materials.

501522 CERAMICS I

Grades 9*-12

Skill Level: 2-3

0.50 Credit/Semester

In this course students will learn the many uses and treatments of clay. They will work on both hand building and wheel throwing. Every aspect of the ceramic medium from clay preparation to firing and glazing will be explored. Functional and sculptural works will be made, and students are expected to write, explain and critique their own work.

REQUIRED: *Grade 9 Students must successfully complete Intro to the Arts and have teacher recommendation. A \$35 Lab Fee for high fire stoneware, professional grade glaze, mason stains and replenishing consumable supplies and equipment.

502541 3D Studio Art

Grades 9-12

Skill Level: 2-4

0.50 Credit / Semester

This course offers innovative studio projects in 3-D design, contemporary sculpture, and mixed media. The relationship between form and function and the visualization of concepts are fundamental for each studio project. Students learn three-dimensional rendering and building techniques to construct works using plaster, cement, wire, wood, soapstone, wax, clay and found objects. Students will craft process sketches, preliminary models and patterns, as well as photograph and write about the finished works. The rich variety of materials and creative, challenging projects offered in this course give students the opportunity to create smart, vibrant art objects.

REQUIRED: Successful completion of Introduction to Art. A \$35 Lab Fee for supplies such as plaster, adhesives, cement, wire, wood, soapstone, wax, silicone and other specialized materials and consumable items.

UNIFIED ARTS

In this class, students will be provided opportunities to expand and refine their own artistic skills. It will encourage creative problem-solving through hands-on art activities. Students will explore a wide variety of media and art vocabulary, but the direction of the course will be driven by the needs of the students. This course is designed to strengthen motor, creative, and observational skills for mentees. Mentors will have the opportunity to practice various techniques helping classmates in the development of effective artistic studio habits for creative learning.

REQUIRED: MUST HAVE PERMISSION OF TEACHER TO ENROLL.

508810 UNIFIED ARTS (MENTEE)

Grades 9-12

This course can be repeated for elective credit. Skill Level: 1-3

0.50 Credit/Semester

MUSIC CLASSES FOR FRESHMEN

Students who choose courses in the music department will develop comprehensive musicianship through listening, creating and performing in a wide range of musical styles. All music courses are based on the National Standards for the Arts and fulfill the Fine Arts requirement for graduation. Performance classes may require some extra rehearsals out of school. Attendance is an important factor in all performance class assessment. Performance classes will take part in concerts, state and regional festivals and competitions. Some performance classes will have the opportunity to travel to other states and out of the country for events. Marching Band and Color Guard students will perform at some athletic and civic events as well as shows and competitions. The Music department also offers the following co-curricular activities: Fall Color Guard, Winter Color Guard, Percussion Ensemble, and Hand Bell Ensemble.

555510 BAND

Grades 9-12

1.00 Credit/Year

The band program provides opportunities for wind and percussion student musicians of all levels of ability to advance in the study of their instrument, learn to perform as an ensemble, improve musicianship, and learn basic music theory. Band is open to all students who play wind and percussion instruments, and pianists and string players who would like to try another instrument. **The band will perform as a marching band in September and October, performing at football games, parades, shows, and then as a concert band for the rest of the year, giving concerts in November, December, March, and June, plus other events throughout the year.** Students may choose one of two levels of marching band participation: performance at football games, civic events and parades, or the more competitive level of commitment, performing at area shows and competitions, mostly on Saturday nights. The competitive marching band students will have additional rehearsals on one week night and Saturday afternoons. Assessment is through performance-based evaluation, written quizzes, and projects. All students will attend night rehearsals in August and Band Camp the week before school begins. Attendance at all performances is required.

555512 JAZZ BAND

Grades 9-12

0.50 Credit/Semester

Students in the jazz band will study and perform a variety of jazz styles and perform at least twice in public. The class is open to band members only on trumpet, sax and trombone, and to rhythm section players by audition. Students will learn the basics of improvisation and chord theory. Assessment will be based on attendance and participation. The jazz band rehearses one evening a week.

REQUIRED: Wind players must be in band; rhythm section players will audition for seats. rhythm section players must read music.

NOTE: Jazz Band is held outside of school hours and does not count towards the minimum required credits to be enrolled at DHS

555520 CONCERT CHOIR

Grades 9-12

1.00 Credit/Year

All freshmen and students who have not sung in chorus before will learn vocal techniques, posture, warm-up and vowel technique, breathing and performance skills. Throughout the course students will gain valuable musical techniques they can use to perform for one year or continue in this field for a lifetime. Music reading will be taught and emphasized. The chorus will perform at least 4 times a year both alone and with the Concert Chorale, learning 20-24 pieces of music in different styles and languages. Students will be assessed through written quizzes, research papers and projects, as well as performances. Attendance at all performances is required.

555530 SOUND WAVES (formerly Chamber Singers)

Grades 9-12

0.50 Credit/Semester

This course offers vocally/musically-advanced students the opportunity to perform at a more advanced level. A variety of repertoire will be studied from the early Renaissance to Contemporary and Jazz. The curriculum is an extension of the concepts developed in Chorus. Performance opportunities are extensive, as are the musical and personal demands on each student. Student assessment will include individual/SMART Music and opportunities to demonstrate/performance.

REQUIRED: Students must be in Chorus or Band to audition for Chamber Singers.

NOTE: Chamber Singers is held outside of school hours and does not count towards the minimum required credits to be enrolled at DHS

551535 ROCK LAB

Grades 9-12

0.50 Credit/Year

This class is offered to all students with some experience on any instrument, including electric guitar, bass, drums, digital piano, woodwind, brass and all singers. In this course, students will form bands in class and perform together on a daily basis. Students will perform a wide variety of rock music ranging from vintage rock to contemporary. Other styles such as blues, swing, Latin will also be explored. Students will learn how to arrange a song for a group and learn how to improvise solos. They will also learn how to follow basic notation and a basic chart. Knowing how to read music is not necessary to take this course but students need to have some knowledge on how to play their instrument. Singers will be coached on proper singing technique. This is an excellent class for students who want to learn how to play some of their favorite music they listen to and also to students who want to learn to play in this type of group which has real world value.

REQUIRED: Students must supply their own instruments and cables. Please see the Music Department for specifics on your instrument requirements.

551530 GUITAR I

Grades 9-12

0.50 Credit/Semester

Students will learn basic guitar technique, music reading, and performance skills. Students will use school guitars in class and are expected to have a guitar at home with which to practice. Assessment will be done through written quizzes and tests, as well as recitals and other performance-based experiences. Students will learn a variety of songs including modern songs.

REQUIRED: Materials fee of \$26.00

NOTE: Some guitars are available for use by students.

552530 GUITAR II

Grades 9-12

0.50 Credit/Semester

Students will move on to more advanced literature, including ensemble playing, as well as blues techniques, bass guitar and song-writing. Students will use school guitars in class and are expected to have a guitar at home with which to practice. Assessment will be done through written quizzes and tests, as well as recitals and other performance-based experiences. *A fee for materials is required.*

REQUIRED: Successful completion of Guitar I with an 80% of higher or audition for the teacher. Materials fee of \$26.00

551532 KEYBOARD I

Grades 9-12

0.50 Credit/Semester

This course is designed for students to receive individualized and group instruction on the piano and to play both independently as well as in groups. Students will play on electronic digital keyboards and will be introduced to proper piano technique while learning to play songs in a variety of styles. Students will learn modern songs, songs from movies, and classic pieces. Students will learn chords, treble and bass clef and good technique so they may continue to Keyboard II. Assessment will be done through performance, quizzes, improvement, effort, and final exam.

REQUIRED: Materials (piano book) fee of \$20.00

552532 KEYBOARD II

Grades 9-12

0.50 Credit/Semester

Students will continue to improve music reading skills and keyboard experience. Composition, music history, and chord analysis will be covered. Assessment will be the same as for Beginning Keyboard/Music Theory.

REQUIRED: Successful completion of Keyboard I, Song-Writing, or completion of two years of Band or Chorus or audition. Materials (piano book) fee of \$20.00

555540 MUSIC THEORY

Grades 9-12

0.50 Credit/Semester

This course is intended for those interested in developing an understanding of the fundamentals of music. Students will explore notation, scale and chord theory, keys, intervals, and harmony. Students will arrange and compose music in a variety of styles. Students will also learn ear training techniques so that they may understand and play music just from listening to it.

555534 SONG WRITING AND COMPOSITION

Grades 9-12

0.50 Credit/Semester

A music theory and composition course for students who want to focus on getting their songs down on paper and write arrangements to use with rock bands or other vocal/instrumental groups. All styles of song-writing will be studied and students will have the opportunity to write for vocals and instrumentals. Assessment will include quizzes and tests as well as a portfolio of compositions.

55536 HISTORY OF JAZZ, ROCK AND POPULAR MUSIC

Grades 9-12

0.50 Credit/Semester

In this non-performance course, students will read, listen to and experience the roots and development of American popular music from the beginning of the 20th century through the artists and music of today. All genres of popular music will be covered including jazz, rock, R&B, and hip-hop. Assessment will be through tests, reports and student-generated projects.

55560 RECORDING TECHNOLOGY

Grades 9-12

0.50 Credit/Semester

Students will learn to compose their own beats and loops with recording software. They will utilize the software for sequencing, recording and editing. They will also develop basic understanding of how sound works and how effects, microphones and amplification are used through hands-on training with studio and live sound equipment. Students will be assessed through composition and recording projects, live sound projects and tests/quizzes. Extra credit and studio use opportunities will be presented to students who help run sound for school events.

GENERAL ELECTIVES FOR FRESHMEN

808853 FRESHMAN SKILLS ENRICHMENT

Grade 9

0.50 Credit/Semester

Freshman Skills Enrichment covers a variety of topics that are necessary for success in high school and later in life. Time management, note taking strategies, planning written work, notebook organization, study skills, test taking strategies, effective research, and methods of research will be areas of study. Class time will consist of whole group instruction, Tier 2 vocabulary development, individual activities and organizational time.

REQUIRED: Enrollment based on recommendation.

808870 CAREER EXPLORATION AND PLANNING

Grades 9-12

1.00 Credit/Semester

Career Exploration and Planning Class is designed to raise student awareness of their personal interests and preferred learning styles and strengths. The class will provide resources to enable students to gain career information, enable students to become better career decision makers, and help develop student's interview skills. Students will develop a resume and learn how to appropriately fill out a job application. This course will introduce students to a wide variety of challenges they will face when joining the workforce. The class will consist of in-class activities, discussion, role-play, and more. Students will explore decision making, money management, banking, job search skills, and interviewing for a job. The class time will be divided into different activities consisting of, but not limited to: teacher-led instruction, group activities, individual activities, and occasional homework.

REQUIRED: Enrollment based on recommendation.

CAREER & TECHNICAL EDUCATION

EXPLORATORY COURSES

Students may select from the Exploratory Courses to gain an introduction to and understanding of a variety of career technical programs. In each course, students develop their interests and aptitudes and investigate advanced course offerings.

990216 INTRODUCTION TO ANIMAL SCIENCE

Grades 9-10 (Grades 11-12 on space available basis)

0.50 Credit/Semester

The Animal Science Exploratory course is designed to give students a basic knowledge of animals and an opportunity to interact with a wide variety of farm animals, horses, and domestic pets. The topics covered are animal behavior, animal handling, equine science, breed identification, diet, basic grooming, farm animals, and barn maintenance. Participation is a significant part of this class, including, but not limited to farm animal handling, stall cleaning, feeding, small animal care, small animal handling and cage cleaning. Students who are successful in the explore program may further pursue their interest by taking advantage of our multiple Animal Science career pathways.

990210 INTRODUCTION TO BIOMEDICAL SCIENCE

Grades 9-10 (Grades 11-12 on space available basis)

0.50 Credit/Semester

Biotechnology is the use of living organisms to solve problems or make useful products. This course is designed to introduce students to the tools and applications of genetic engineering, as well as the ethical issues that these technologies raise. Students will acquire basic laboratory skills in a variety of tasks that include testing, sampling and analysis of various organisms and materials. Students will have a chance to experiment with techniques such as DNA isolation, gene manipulation, and molecular cloning. Students will also gain an understanding of how the biotechnology industry operates, and will learn about options for future career and education opportunities. Additional topics to be addressed throughout the semester include applications of bioinformatics, analysis of bioethics, the roles of federal regulatory agencies, principles of genetics, concepts in immunology, and techniques of molecular biology.

990220 INTRODUCTION TO BUILDING/ELECTRICAL TECHNOLOGIES

Grades 9-10 (Grades 11-12 on space available basis)

0.50 Credit/Semester

Interested in exploring a career in building construction? Considering becoming an electrician? Review the basic skills needed to be successful in both industries. With hands-on experiences, discover how to properly select and safely use tools, identify commonly used materials, explore career opportunities and develop skills useful in everyday life.

990221 INTRODUCTION TO BUSINESS

Grades 9-10 (Grades 11-12 on space available basis)

0.50 Credit/Semester

This introductory course includes an overview of the various aspects of business operations. Students will be introduced to types of business ownership, financial management, entrepreneurship, technology in business,

marketing, human resources and social responsibility in the business environment. Individual and group assignments will emphasize practical applications of the above topics. Current business practices and events will also be discussed.

NOTE: Does not fulfill computer credit requirement.

990222 INTRODUCTION TO AUTOMOTIVE TECHNOLOGIES

Grades 9-10 (Grades 11-12 on a space available basis)

0.50 Credit/Semester

Enjoy the hum of an engine? Thinking about more horsepower? Come explore the fundamental skills related to automotive repair and collision technologies. Gain hands-on, practical experience related to the automotive industry in compliance with national standards. Get your hands dirty while investigating the career opportunities available in the automotive field.

990225 INTRODUCTION TO COMPUTER PROGRAMMING

Grades 9-10 (Grades 11-12 on space available basis)

0.50 Credit/Semester

Interested in creating computer programs? Want to learn how to create basic computer games? Come and explore the fundamentals of creating applications, games, and simple python programs. Learn the basics of computer programming using a variety of programming environments.

NOTE: Does not fulfill computer credit requirement.

990226 INTRODUCTION TO COMPUTER SYSTEMS NETWORKING

Grades 9-10 (Grades 11-12 on space available basis)

0.50 Credit/Semester

Interested in getting under the hood of a computer? Explore the basics of computer hardware, software installations and functions, diagnosis compatibility issues and common errors, and assess security risks and prevention. Understand how to utilize preventative maintenance on computers to prolong their life. Assemble a computer from scratch and troubleshoot basic hardware and software issues!

NOTE: Does not fulfill computer credit requirement.

990234 INTRODUCTION TO CULINARY

Grades 9-12

0.50 Credit/Semester

Wondering what to eat? Discover the meaning of nutrition, health and wellness. Develop fundamental kitchen skills that explore the importance of food preparation, sanitation, safety and proper equipment use. Explore a hospitality or business career as you are introduced to food and nutrition.

990228 INTRODUCTION TO ENGINEERING

Grades 9-10 (Grades 11-12 on space available basis)

0.50 Credit/Semester

This introductory course will engage students in applying those fundamental skills and basic knowledge related to the diverse and ever-changing fields of engineering. The fundamental skills that engineers use on a daily basis will be introduced. Basics concepts of Computer Aided Design (CAD), robotics, the design process, and related skills will be the focus of lab based activities, utilizing problem solving skills.

NOTE: Does not fulfill computer credit requirement as of 2015-2016.

990235 INTRODUCTION TO NAVAL SCIENCE - LEADERSHIP

Grades 9-12

1.00 Credit/Year

This course is designed to introduce students to the precepts of citizenship, the elements of leadership, service to others, and the value of scholarship in attaining life goals. The Cultural Studies portion of the course introduces students to world cultures through the study of world affairs, regional studies, and cultural awareness.

NOTE: Fulfills Global Studies requirement. Does not require program application/admission.

Computer Education Courses (Business Electives)

915214 DIGITAL LIFE & 21ST CENTURY TOOLS (FORMERLY COMPUTER LITERACY)

Grades 9-10 (Grades 11-12 on space available basis)

0.50 Credit/Semester

Digital Life will teach you basic concepts of computing and how computing can be an everyday feature of life and work. Explore and use up-to-date tech tools to assist in school, everyday life and your future career. You will explore a very basic introduction to word processing, presentations, and spreadsheets. You will also learn to be safe digital citizens, and explore a wide variety of digital resources while using critical thinking skills to creatively solve problems. Focus will be placed on how to adapt to the ever-changing digital environment.

Note: Students who have successfully completed Microsoft Office are not eligible for this course.

915219 MICROSOFT OFFICE

Grades 9-12

0.50 Credit/Semester

Want to obtain an industry certification or have the ability to waive an entry level college course? This course is designed for students to learn the many features of Microsoft Office to create documents, publications, presentations, spreadsheets, emails and calendars. Students will complete 2-4 Microsoft Office applications progressing in the following order:

1. Microsoft Word
2. Microsoft PowerPoint
3. Microsoft Excel
4. Microsoft Outlook

Note: Students can achieve the nationally recognized Microsoft Office Specialist Certification in all four Microsoft Office applications upon achieving a passing score on the MOS Certification Exam for each of the programs. Recommended for all students enrolled in college prep classes. May be taken more than once for credit.