Inquiries concerning the application of non-discrimination policies may be referred to the Regional Director, Office for Civil Rights, U.S. Department of Education, Boston, MA 02109-4557.

Revised Spring 2017

Greater Fall River Vocational School District
Diman Regional Vocational Technical High School

SCHOOL COMMITTEE
Paul Jennings, Chairperson  Westport
Joan Menard          Fall River
Rajiv Nehra          Fall River
Thomas Chace         Fall River
Donald DiBiasio      Somerset
Jeffrey Begin        Swansea

ADMINISTRATION
Thomas F. Aubin, Superintendent-Director
Elvio Ferreira, Asst. Superintendent/Principal
Deborah Kenney, Business Manager
Maria Torres, Vocational Coordinator
Katie Warren, Academic Coordinator
Lois Miller, Director of Guidance
Glenn Benevides, Supervisor of Buildings and Grounds
Gisele Parent, Dean of Students
Debbie Pacheco, Director of Special Education/Grant Coordinator

EQUAL OPPORTUNITY
The Greater Fall River Vocational School District/Diman Regional Vocational-Technical High School prohibits discrimination on the basis of race, color, religion, creed, sex, age, marital status, national origin, mental or physical disability, political belief or affiliation, veteran status, sexual orientation, gender identity and expression, genetic information and any other class of individuals protected from discrimination under state or federal law in any aspect of the access to, admission, or treatment of students in its programs and activities, or in employment and application for employment. Furthermore, District/School policy includes prohibitions of harassment of students and employees, i.e., racial harassment, sexual harassment, and retaliation for filing complaints of discrimination.

Admission questions may be directed to:

Director of Guidance
508-678-2891 ext. 1250
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<td>Plumbing</td>
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OBJECTIVES

• To ensure that every student is given opportunity to develop his/her potential without regard to race, color, creed, national origin, gender, sexual orientation, economic status, or disability.

• To provide state-of-the-art, integrated academic and vocational/technical programs which optimize the potential of each student and prepare them to meet the state’s performance standards.

• To provide opportunities for students to acquire contemporary workplace skills such as communicating, organizing and analyzing information, solving problems, using technology, initiating and completing assignments, acting ethically and professionally, interacting with others, understanding the structure and dynamics of organizations, and taking responsibility for career and life choices.

• To provide all grade 9 students with an opportunity to explore their interests in a wide array of trade/career options.

• To provide counseling and assistance to students concerning social issues, employment and educational opportunities, and vocational orientation.

• To provide programs and activities which contribute to health and well-being, a safe environment, a sense of belonging, and respect for self and others.

• To use student assessment results to review and improve curricula, courses, programs, and instructional practices.

• To encourage students to pursue professional improvement leading to certification/licensure in their trade areas and post-secondary education.

• To provide continuing adult education with a focus on developing technical skills.

• To continuously seek, with the guidance of active Advisory Boards, new areas of training required for community and industrial development.

• To provide personnel with the resources and the support needed to grow and develop professionally toward a goal of raising student achievement.

• To promote cultural understanding within a diverse population.

• To develop partnerships with business, industry, government, and the community.

SECTION 504 OF THE REHABILITATION ACT OF 1973

Diman Regional Vocational Technical High School complies with all aspects of Section 504 of the Rehabilitation Act of 1973. As such, Diman RVTHS is dedicated to providing all students with a free, appropriate public education (FAPE). For further information regarding 504 accommodations, please contact the Office of Pupil Personnel Services.

DIRECTOR OF GUIDANCE

Diman Regional Vocational Technical High School
(508) 678-2891 x1250
GRADE POINT AVERAGE AND CLASS RANK CALCULATION

Grade Point Averages (GPA) and class rank are important to students seeking scholarships, financial assistance, and other post-secondary endeavors. GPA and class rank are calculated using a system of levels and credits.

Each academic and elective course is assigned the appropriate level based on the rigor of the curriculum and the performance expectations: generally Advanced Placement and dual enrollment courses are rated at the highest level, followed by honors courses, college prep courses, and then college and career readiness level three courses. For the purposes of calculating GPA only, each level is assigned a specific weight. It is important to note that levels do not affect the grade published on a student’s report card. Levels provide a means of accurately calculating class rank for a diverse population. Levels may also be utilized to adjust for an individual with significant modifications to his/her course expectations. GPA and class rank are calculated by multiplying a student’s adjusted class averages by the corresponding credit value and then dividing by the total number of attempted credits.

CURRICULUM LEVEL/GRADE SCALE

Diman Regional Vocational Technical High School utilizes a 4.0 curriculum level/100 point grade scale. The values associated with each course are listed below.

<table>
<thead>
<tr>
<th>Course Type</th>
<th>Curriculum Level</th>
<th>Grade Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>Honors</td>
<td>1</td>
<td>4.3</td>
</tr>
<tr>
<td>College Preparation</td>
<td>2</td>
<td>4.09</td>
</tr>
<tr>
<td>Tech Preparation</td>
<td>3</td>
<td>3.87</td>
</tr>
<tr>
<td>AP/Dual Enrollment</td>
<td>5</td>
<td>4.8</td>
</tr>
</tbody>
</table>

Special Education Services

Diman provides a range of services to all students with disabilities as per their Individualized Education Plans (IEPs). For those students requiring a more concentrated daily curriculum due to their learning difficulties, Diman Regional Vocational Technical High School offers a Basic Vocational/Academic program. This Basic Vocational/Academic program employs a modified curriculum and is specifically designed to address the needs of students with disabilities by providing instruction in academics and shop on a daily basis, this allowing for continuous instruction and reinforcement of curriculum.

For more information, please contact Diman’s Office of Special Education.

DIRECTOR OF SPECIAL EDUCATION

Diman Regional Vocational Technical High School
(508) 678-2891 x1320

COURSE SELECTION

Each student is expected to discuss individual course selections with a parent and guidance counselor. Though the Diman team works to ensure that most students are placed in the courses that they request, it is understood that sometimes certain course requests will not fit within a student’s schedule. For this reason, the Diman team cannot guarantee that all course requests are met. It is important to remember that course selections are requests only. In placing students, the Diman team reviews student selections, previous grades, career/college goals, course prerequisites, and teacher recommendations.
Honors Courses

Honors courses are an integral part of the total curriculum at Diman Regional Vocational Technical High School. These courses have been developed keeping in mind the Diman mission statement: “to develop the unique potential of each learner”. They are designed to accelerate students’ learning in classes that have elevated expectations.

Because of the challenging nature of these courses, they carry higher quality points than the courses for the general student population. It is important to note that Advanced Placement and dual enrollment courses carry a higher weight than all honors sections.

GPA and class rank are calculated by multiplying a student’s adjusted class averages by the corresponding credit value, and then dividing by the total number of attempted credits.

Freshmen Honors Placement

Eighth grade students who have been selected to attend Diman will receive notice of a placement exam in the spring of 2018. During this placement exam, students will be assessed upon their writing, reading, and mathematics skills. Utilizing placement test scores, MCAS scores (when available), and grades from their sending schools, students will placed in the honors or college preparation sections of history, biology/physics, English language arts and/or algebra. Since placement is limited in many of these honors level courses, other factors such as attendance, discipline record, and guidance counselor recommendations are also considered. To insure that placement in the honors courses reflect students’ abilities, as well as motivation and work ethic, a review of students’ progress begins after two academic cycles. At this time, or later in the trimester, teachers may recommend a change in the placement. All changes will take place before November 1st.

Upper Classmen Honors Placement

Diman Regional Vocational Technical High School offers the following upperclassmen honors and Advanced Placement level courses:

- Honors ELA 10, 11, and 12
- Advanced Placement Language and Composition
- Honors United States History II, Honors Contemporary United States History, and Honors World History
- Honors Biology 10, Honors Physics First II, Honors Chemistry I & II, and Honors Applied Physics I & II
- Honors Geometry, Honors Algebra 2 Honors Trigonometry and Analytics, Honors Pre-Calculus, and Honors Introduction to Calculus I.

Students in the sophomore, junior, and senior year are placed into honors course based upon their past academic performances, student selection, and teacher recommendation. Honors students should be highly motivated and have a work ethic that will ensure that all assignments are passed in on time and meet the expectations of the honors course. A student, who is not meeting the expectations of the course and does not maintain an 80% average, may be removed from the class or have a written contract drawn up allowing him/her to remain in the class under certain criteria.

It is important to note that honors selection can only be granted when a student has met all course prerequisites. Honors placement cannot be granted without meeting all required expectations. The prerequisite criterion for each course is detailed in the course description section of this catalogue.

Dual Enrollment

Diman Regional Vocational Technical High School strives to provide all students with a rigorous and competitive education. Due to the demanding nature of these courses, some Diman students are prepared for college courses at an early age. Students who are ready to face the challenge that college offers may then enroll in dual enrollment courses. In accordance with the District’s Dual Enrollment policy, students who take and pass college courses may be eligible for replacement credit. For assistance with this course scheduling, students interested in dual enrollment courses should see a guidance counselor prior to registering for college level courses.
Graduation Requirements
Class of 2017- Class of 2020

In order to receive a diploma from Diman Regional Vocational Technical High School, a student must earn a minimum of 140 credits. A student must have passed three years of shop related, four years of English, four years of mathematics, and three and one half years of shop receiving a passing grade of at least 65 in each subject. All students must pass the MCAS tests in the subjects required by the state of Massachusetts.

The balance of the credits necessary to total 140 credits may be acquired from other subjects in the curriculum. These requirements will differ proportionately for the students who enter at the 10th or 11th grade level.

Students are required to pass their ninth and tenth grade science, technology, and/or engineering (STE) classes and two years of history/social studies. Overall minimum course requirements are listed below:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shop</td>
<td>3.5 years</td>
</tr>
<tr>
<td>Shop Related</td>
<td>3 years (where available)</td>
</tr>
<tr>
<td>English</td>
<td>4 years</td>
</tr>
<tr>
<td>Mathematics</td>
<td>4 years</td>
</tr>
<tr>
<td>Science</td>
<td>2 years (must include grades 9 and 10 courses)</td>
</tr>
<tr>
<td>Social Studies</td>
<td>2 years</td>
</tr>
</tbody>
</table>

UPDATED GRADUATION REQUIREMENTS

Diman graduation requirements for incoming students were amended effective March 9, 2017, in order to align more closely with MassCore. The updated graduation requirements will impact all students in the Class of 2021. All Diman students must still adhere to the minimum 140 credits in order to graduate. The updated graduation requirements are listed below:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shop</td>
<td>3.5 years</td>
</tr>
<tr>
<td>Shop Related</td>
<td>3 years (where available)</td>
</tr>
<tr>
<td>English</td>
<td>4 years</td>
</tr>
<tr>
<td>Mathematics</td>
<td>4 years</td>
</tr>
<tr>
<td>Science</td>
<td>3 years (must include grades 9 and 10 courses)</td>
</tr>
<tr>
<td>Social Studies</td>
<td>3 years (must include World History)</td>
</tr>
</tbody>
</table>
Academic Programs
ENGLISH LANGUAGE ARTS
# English Department

## COURSE OFFERINGS 2017-2018

<table>
<thead>
<tr>
<th>NAME</th>
<th>COURSE #</th>
<th>GRADE</th>
<th>LEVEL</th>
<th>CREDITS</th>
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</thead>
<tbody>
<tr>
<td>Honors English Language Arts 9</td>
<td>3201</td>
<td>9</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>English Language Arts 9</td>
<td>3001</td>
<td>9</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Reading Language Arts 9 Title 1</td>
<td>3081</td>
<td>9</td>
<td>3</td>
<td>0.83</td>
</tr>
<tr>
<td>English Language Arts 9</td>
<td>7001</td>
<td>9</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>Honors English Language Arts 10</td>
<td>3202</td>
<td>10</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>English Language Arts 10</td>
<td>3002</td>
<td>10</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Reading Language Arts 10 Title 1</td>
<td>3082</td>
<td>10</td>
<td>3</td>
<td>0.83</td>
</tr>
<tr>
<td>English Language Arts 10</td>
<td>7002</td>
<td>10</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>Honors English Language Arts 11</td>
<td>3203</td>
<td>11</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>English Language Arts 11</td>
<td>3003</td>
<td>11</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Reading Language Arts 11 Title 1</td>
<td>3083</td>
<td>11</td>
<td>3</td>
<td>1.25</td>
</tr>
<tr>
<td>English Language Arts 11</td>
<td>7003</td>
<td>11</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>AP English Language and Composition</td>
<td>3114</td>
<td>12</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>AP English Study Skills</td>
<td>3134</td>
<td>12</td>
<td>5</td>
<td>1.25</td>
</tr>
<tr>
<td>Honors English Language Arts 12</td>
<td>3204</td>
<td>12</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>English Language Arts 12</td>
<td>3004</td>
<td>12</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Reading Language Arts 12 Title 1</td>
<td>3084</td>
<td>12</td>
<td>3</td>
<td>1.25</td>
</tr>
<tr>
<td>English Language Arts 12</td>
<td>7004</td>
<td>12</td>
<td>3</td>
<td>5</td>
</tr>
</tbody>
</table>
The English Language Arts curricula are integrated literature based courses in which students of all four years are grouped heterogeneously. All four levels concentrate on reading comprehension through strategies for active readers, literary analysis, critical thinking skills, vocabulary development, and the writing process. In addition, for enhancement and enjoyment, all four levels are supplemented with novels that correspond to each year of study.

**3001/7001 – ENGLISH LANGUAGE ARTS 9**
5 CREDITS

The freshman English Language Arts curriculum introduces selections of various genres including fiction, nonfiction, ballad, lyric poetry, personal essay, mystery story and drama, and Shakespearean drama. Critique writing, narrative writing, descriptive writing, persuasive writing and expository speech skills are also developed. Author studies are also explored.

*7001- In this course, modifications to the above curriculum are made as dictated by students’ Individualized Education Plans.

**3081– READING LANGUAGE ARTS 9 TITLE I LAB**
0.83 CREDITS

The freshmen Reading Language Arts curriculum initially tests all students with the Stanford Diagnostic Reading and Writing Test. This test enables the reading instructor to tailor each individual student’s instruction and work on skills needed to improve. The curriculum introduces selections of various genres including fiction, nonfiction, ballad, lyric poetry, mystery story and drama, and Shakespearean drama. The media is covered through current events on a weekly basis and debates often ensue. The essay is practiced until students master the format and continuously used as a tool for assessing reading comprehension. Author studies are also explored. Students are post-tested in May to record gains and those who have reached grade level are mainstreamed into the English Language Arts program.

**3201 – HONORS ENGLISH LANGUAGE ARTS 9**
5 CREDITS

The freshman honors English Language Arts curriculum focuses and extends the students’ understanding of the various genres offered in the freshman English Language Arts curriculum. Novels will be assigned during the shop cycle interim, as well as, during the academic cycle. These will be the basis for in depth literary analysis presentations before a critical audience for discussion and debate. In addition, emphasis is placed on developing greater proficiency in paragraph development and vocabulary of the writing process.

*Prerequisites: Enrollment in this course is based upon student placement exam results. As part of this placement exam, students must score at least a 17/20 on the written portion of this test in order to be eligible for Honors English Language Arts 9 placement. Additionally, previous student English scores and overall transcripts will be considered when placing students in this class.*
3002/*7002 – ENGLISH LANGUAGE ARTS 10
5 CREDITS

The sophomore English Language Arts curriculum encourages students to grow as critical readers and thinkers while supporting the frameworks for MCAS strategies. The genres studied are fiction, science fiction, realistic fiction, nonfiction, mystery story, poetry, sonnets, Greek drama, and Shakespearean drama. In the sophomore year, an integrated expository writing/speech project is required. An author study of a science fiction writer is investigated. The writing process includes critique, narrative, descriptive and persuasive writing.

*7002- In this course, modifications to the above curriculum are made as dictated by students' Individualized Education Plans.

3082 – READING LANGUAGE ARTS 10 TITLE I LAB
0.83 CREDITS
In the sophomore Reading Language Arts trifecta lab, students will be introduced to various MCAS strategies. The course will focus on strategies to complete the open response sections on the MCAS test. The genres of fiction, nonfiction, and poetry will be addressed. Additionally, students in this course are post-tested with the Stanford Diagnostic Reading Test in May to record gains and those who have reached grade level are mainstreamed into the English Language Arts program.

302 – HONORS ENGLISH LANGUAGE ARTS 10
5 CREDITS

The sophomore English Language Arts curriculum reinforces and expands competencies initiated in freshman level English Language Arts. Students read the various works of the sophomore English Language Arts curriculum and analyze form and purpose of these genres. Novels will be assigned during the shop cycle interim, as well as during the academic cycle, which will be the basis for in-depth literary analysis presentations to demonstrate considerations of audience, purpose, and information conveyed. There is also greater emphasis on organization, precision of expression, and wider use of vocabulary to demonstrate their understanding of answering open-ended research questions, while relying upon different sources of information and research techniques.

*Prerequisites: Students should have earned an 80 or above in their honors level English Language Arts 9 course. Students wishing to move from college prep and into this honors level course must have earned a 90 or above in English Language Arts 9 and have passed the writing placement exam with a score of a 17/20 or higher. Teacher recommendation is also required as a prerequisite for this course.

**Students wishing to take the writing placement exam for this honors course must see their English teacher(s) prior to April of their freshman year.
**3003 – ENGLISH LANGUAGE ARTS 11**
5 CREDITS

The junior English Language Arts curriculum gives students knowledge of American writers for a sense of the diversity of our country. This course provides students with an awareness of cultural and historical influences on literature. American literature genres include myths, songs, folktales, poetry, sermon, primary sources, legend, fiction, nonfiction and historical narrative. Four author studies are also examined. Students also complete an integrated expository writing/speech project, as well as critique writing, narrative, descriptive and persuasive process writing.

*7003- In this course, modifications to the above curriculum are made as dictated by students’ Individualized Education Plans.

---

**3203 – HONORS ENGLISH LANGUAGE ARTS 11**
5 CREDITS

Students read the various genres of the junior English Language Arts curriculum and analyze style, form, and historical content. Students develop an understanding of literature as a basis for social commentary, inquiry, and critical analysis. Students will be required to present informal and formal speech presentations. Novels will be assigned during the shop cycle interim, as well as during the academic cycle, which will be the basis for in depth literary analysis presentations to demonstrate considerations of audience, purpose, and information conveyed. Students improve organization, content, paragraph development, level of detail, style, tone, and word choice in their own writing through the writing process. SAT vocabulary and word analogies preparation are an integral part of this course.

*Prerequisites: Students should have earned an 80 or above in their honors level English Language Arts 10 course. Students wishing to move from college prep and into this honors level course must have earned a 90 or above in English Language Arts 10 and have passed the writing placement exam with a score of a 17/20 or higher. Teacher recommendation is also required as a prerequisite for this course.

**Students wishing to take the writing placement exam for this honors course must see their English teacher(s) prior to April of their sophomore year.

---

**3083 – READING LANGUAGE ARTS 11 TITLE I LAB**
1.25 CREDITS

The junior Reading Language Arts curriculum continues to work on skills to enable students to pass the MCAS and to become independent readers. The genres explored are fiction, nonfiction, mystery story, poetry, Shakespearean drama, myths, folktales, legends and historical narratives. Students work on specific skills such as drawing conclusions, reading for concepts, finding the main idea, and using context clues. Literary terms are practiced and the Current Events magazine is read and discussed. An integrated expository writing/speech project is required. Students are post-tested with the Stanford Diagnostic Reading Test in May to record gains and those who have reached grade level are mainstreamed into the English Language Arts program.
The senior English Language Arts curriculum focuses on classic British literature from the Anglo-Saxon Period, the English Renaissance, the Restoration Period, the Romantic and Victorian Eras to contemporary times. The genres are epic poetry, romantic poetry, Victorian poetry, framework stories, sonnets, Shakespearian drama, novels, diaries, and fiction. In addition, students complete an author study on Chaucer. Process writing includes narrative, descriptive, expository, and persuasive writing.

*7004 - In this course, modifications to the above curriculum are made as dictated by students’ Individualized Education Plans.

This is a literature course that provides students with an opportunity to develop their writing through various stages of composing, revising, and editing, while simultaneously developing a critical view of the world surrounding them. While developing an understanding of literature as a basis for enjoyment, social commentary, inquiry, and critical analysis, students in this course also learn to formulate and support a thesis using a number of rhetorical strategies; conduct research; integrate a variety of sources according to the Modern Language Association guidelines; and write in standard, formal English with consideration given to audience, purpose, and context.

*Prerequisites: Students should have earned an 80 or above in their honors level English Language Arts 11 course. Students wishing to move from college prep and into this honors level course must have earned a 90 or above in English Language Arts 11 and have passed the writing placement exam with a score of a 17/20 or higher. Teacher recommendation is also required as a prerequisite for this course. **Students wishing to take the writing placement exam for this honors course must see their English teacher(s) prior to April of their junior year.

In this Advanced Placement course, students will study British literature and the art of rhetoric. Students will be able to analyze writers’ rhetorical and linguistic choices, as well as apply different rhetorical and linguistic strategies to their own writing. Students will read from a variety of prominent English language autobiographers, diarists, political writers, biographers, historical writers, essayists, fiction writers and literary critics. The completion of extensive summer assignments is a requirement of this course. Please do not elect this course if you are unwilling to complete the summer assignments. Students should have earned a grade of A- or better in their prior year English class. They must also take a writing placement examination. All students are required to take the AP exam.

*Prerequisites: Students should have earned a grade of A- or better in their prior year English class. They must also take a writing placement examination.

**Weighted Course towards GPA

***Course goals and further descriptions can be found at collegeboard.org
MATHEMATICS
### Mathematics Department Course Offerings

#### COURSE OFFERINGS 2017-2018

<table>
<thead>
<tr>
<th>NAME</th>
<th>COURSE #</th>
<th>GRADE</th>
<th>LEVEL</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Honors Algebra 1</td>
<td>1111</td>
<td>9</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Honors Geometry</td>
<td>1032</td>
<td>9/10</td>
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The study of mathematics is an integral component of a variety of academic and vocational disciplines. All mathematics curricula were redesigned in 2016 to meet the various needs of Diman Regional Vocational Technical High School students to prepare them for MCAS 2.0, PSAT/SAT, and Accuplacer in accordance with NCTM and Common Core guidelines. Graduates who are continuing their education by enrolling in a two year or four year institution, enlisting in the military, or entering the workforce will be well prepared for the future after completing the comprehensive four year mathematics program.

**7421 – TOPICS OF ALGEBRA 1**
5 CREDITS

This course introduces such topics as operations with real numbers and order of operations. Students will also solve linear equations and inequalities with one variable. Students will then graph linear equations and inequalities with two variables using tables and the slope intercept method. Students will also be introduced to parallel and perpendicular lines. They will also be introduced to the concept of using slope intercept to write the equation of a line. Students will be introduced to solving systems of equations using substitution, elimination and graphing. Scientific notation and rules for exponents will also be covered. Students will be introduced to the uses of exponential growth and decay as they study simple compound interest and depreciation.

*This course is suited for students who intend to continue their post-secondary education (with remediation) at a two-year college, post-secondary vocational school, or intend to enter the work force or enlist in the military.

**7421 – A modified curriculum course for students on Individualized Education Plans.

**1063 – ALGEBRA 1**
5 CREDITS

In this course, students will use algebra to solve one and two variable equations, follow more complex order of operations as well as graphing linear equations using tables and slope intercept method. Students will also graph inequalities. Students will solve systems of equations using substitution, elimination and graphing. The Power Rule of Exponents will also be introduced. Students will also work with exponents, polynomial expressions both multiplying and factoring, and will be introduced to the Quadratic Formula.

*This course is suited for students who intend to continue their post-secondary education at a two or four year college, post-secondary vocational school, or intend to enter the work force or enlist in the military.

**1111 – HONORS ALGEBRA 1**
5 CREDITS

In this accelerated paced course, students will use algebra to solve one and two variable equations, inequalities, follow more complex order of operations as well as graphing linear equations using tables and slope intercept method, and graphing inequalities. Students will summarize, represent, and interpret data on two categorical and quantitative variables. Students will solve systems of equations using substitution, eliminations and graphing. Students will also learn to apply the Power Rule for exponents as well as simplify complex fractions. Emphasis will be placed on problem solving and analysis.

*This course is suited for students who intend to continue their post-secondary education at a four year college.
1302/**7422 – TOPICS OF GEOMETRY
5 CREDITS
This course introduces such topics as properties of polygons, properties of circles, volume, area and perimeter of compound figures. Students will also become familiar with properties of triangles, similar and congruent figures, and the Pythagorean Theorem. Students will also solve simple problems involving parallel lines. Algebra concepts will be integrated where appropriate. Key student-friendly objectives including academic vocabulary will be introduced. Students will learn to use appropriate tools strategically.

*Prerequisite: Topics of Algebra 1 or Algebra 1 with teacher recommendation.

**This course is suited for students who intend to continue their post-secondary education (with remediation) at a two-year college, post-secondary vocational school, or intend to enter the work force or enlist in the military.

***7422 – A modified curriculum course for students on Individualized Education Plans.

1032 – HONORS GEOMETRY
5 CREDITS
This in-depth study of theorems and postulates uses two column proofs and expects students to form conclusions based on given information. Topics which are covered at an accelerated rate include pairs of angles, properties of polygons and circles, properties of right triangles, properties of parallel lines, and the proofs of congruent and similar triangles. Students will use formulas to find area of plane figures, and the surface area and volume of solid figures. Emphasis is placed on logical reasoning and problem solving using algebra where appropriate. Prior subject knowledge is expected. Students must be able to utilize appropriate academic language to express complex mathematical concepts. Successful students will be able to demonstrate mastery on rigorous assessments.

*Prerequisite: Grade 9 students enrolled upon demonstrating mastery on placement exam.

**This course is suited for students who intend to continue their post-secondary education at a four year college.

1052 – GEOMETRY
5 CREDITS
This course covers two and three dimensional geometric figures and their properties. In addition, students will study pairs of angles, the properties of parallel lines, similar and congruent figures, right triangles, special right triangles and circles. Students will use formulas to find area of plane figures, and the surface area and volume of solid figures. Algebra will be integrated where appropriate.

*Prerequisite: Algebra 1 or Topics of Algebra 1 with compensatory work after teacher recommendation.

**This course is suited for students who intend to continue their post-secondary education at a two or four year college, post-secondary vocational school, or intend to enter the work force or enlist in the military.
1113 – ALGEBRA 2
5 CREDITS
This course continues the study of algebraic concepts with quadratics and polynomials. An in-depth study of quadratic equations will help students identify, solve, and use technology to graph quadratic functions. Students will examine the complex number system. Operations on polynomials will be performed and higher-order equations will be solved with both real and complex roots. An in-depth study of radicals will allow students to simplify and rationalize higher-order roots and rational exponents as well as solve rational equations. Exponential functions and their applications will also be considered.

*Prerequisite: Geometry or Topics of Geometry with compensatory work after teacher recommendation.

**This course is suited for students who intend to continue their post-secondary education at a two or four year college, post-secondary vocational school, or intend to enter the work force or enlist in the military.

1053 – HONORS ALGEBRA 2
5 CREDITS
This accelerated paced course will feature sophisticated methods of solving linear, quadratic, and higher-order equations. Matrices will be used to solve for three or more unknowns in a system of equations with a focus on applications of simultaneous equations. Students will be able to simplify, classify, and solve equations with higher-order polynomials and will apply the Fundamental Theorem of Algebra to find real and complex solutions. An in-depth study of radicals will allow students to simplify and rationalize higher-order roots and rational exponents. Students will use combinatorics to simulate real-life situations. Students will be able to work with rational expressions and equations and find and describe points of discontinuity on their related graphs. Sequences and series will be evaluated as well as standard deviations. When time allows, the mathematics of finance is considered. Emphasis is placed on analysis of applications throughout the course.

*Prerequisite: Honors Geometry or Geometry with compensatory work after teacher recommendation.

**This course is suited for students who intend to continue their post-secondary education at a four year college.

1313/**7033 – TOPICS OF ALGEBRA 2
5 CREDITS
The course begins with an introduction to quadratic functions and their applications. Students will learn to solve quadratic equations using a variety of methods, including the quadratic formula. Students will also be introduced to complex numbers. Students will perform operations on polynomial expressions. Students will be introduced to radical expressions. They will also learn to multiply and divide these expressions. This course concludes with a study of rational exponents.*Special Education Equivalent course

*Prerequisite: Topics of Geometry or Geometry with teacher recommendation.

**This course is suited for students who intend to continue their post-secondary education (with remediation) at a two-year college, post-secondary vocational school, or intend to enter the work force or enlist in the military.

**7033: This is a modified curriculum course for students on Individualized Education Plans.
1166 / **7085 – TOPICS OF ADVANCED ALGEBRA & TRIGONOMETRY

5 CREDITS

This course will begin with the use of matrices and graphing calculators to solve simultaneous equations. A continuation of the study of radicals will allow students to simplify and rationalize higher-order roots and rational exponents as well as solve rational equations. Students will also study right triangle trigonometry with applications of the six trigonometric functions and their graphical representations. Additionally, modeling of sinusoidal waves using sine and cosine functions (amplitude, period, etc), inverse functions of sine, cosine and tangent with basic trig identities will be investigated. Extensive use of the graphing calculator is required throughout the course.

*Prerequisite: Topics of Algebra 2 or Algebra 2 with teacher recommendation.

**This course is suited for students who intend to continue their post-secondary education (with remediation) at a two-year college, post-secondary vocational school or intend to enter the work force or enlist in the military.

***7085 - This is a modified curriculum course for students on Individualized Education Plans.

1165 – ADVANCED ALGEBRA & TRIGONOMETRY

5 CREDITS

This course begins with the use of matrices and graphing calculators to solve simultaneous equations. Students will also study right triangle trigonometry with applications of the six trigonometric functions and their graphical representations. Additionally, modeling of sinusoidal waves using sine and cosine functions (amplitude, period, etc), inverse functions of sine, cosine and tangent with basic trig identities, Laws of Sines and Laws of Cosines will be investigated. Sequences and series will be evaluated. Extensive use of the graphing calculator is required throughout the course.

*Prerequisite: Algebra 2 or Honors Algebra 2 with teacher recommendation.

**This course is suited for students who intend to continue their post-secondary education at a two or four year college, post-secondary vocational school, or intend to enter the work force or enlist in the military.
1034 – HONORS PRE-CALCULUS
5 CREDITS
This upper level course will begin with the use, as well as manipulation of exponential and logarithmic functions – both common and natural. It continues with angle measurements in radians, revolutions, and degrees. Students will also study right triangle trigonometry with applications of the six trigonometric functions and their graphical representations. Additionally, modeling of sinusoidal waves using sine and cosine functions (amplitude, period, etc.), inverse functions of sine, cosine, and tangent with basic trig identities, Laws of Sines, and Laws of Cosines with applications to conic sections will also be investigated. Students will also become familiar with the properties and translations of parabolas, circles, ellipses and hyperbolas. Extensive use of the graphing calculator is required throughout the course.

*Prerequisite: Honors Algebra 2.
**This course is suited for students who intend to continue their post-secondary education at a four year college.

1454 – STATISTICS
5 CREDITS
Students will learn how to analyze and interpret data as well as justify their conclusions. Topics include: displaying categorical and quantitative data appropriately, distribution analysis, determining correlation between two variables, making predictions, collecting data and the basics of probability. Students will use technology to aide in all computations and focus on what the numbers mean in the context of the problem.

*Prerequisite: Algebra 2 or Topics of Algebra 2 with teacher recommendation.
**This course is suited for college-bound seniors.

1284 – HONORS INTRODUCTION TO CALCULUS I
5 CREDITS
This course builds on the foundational topics introduced in pre-calculus. Students will study two and three dimensional vectors, polar equations and their graphs, limits, continuity, derivatives and their applications. Students will apply these concepts to a wide range of real-world problems, including rates of change and velocity/acceleration.

*Prerequisite: Honors Pre-calculus.
**This course is suited for students who intend to continue their post-secondary education at a four year college with a major requiring Calculus.

1244 / **7084 – BUSINESS MATH
5 CREDITS
This course is designed for career bound seniors. Students will be introduced to the mathematical skills and concepts needed to be successful in their personal finances and in their business. Topics such as payroll & salary, managing personal income, budgeting, credit, banking services, insurance, home and car ownership and rental, and personal taxes will be explored in depth.

*Prerequisite: Topics of Algebra 2 or Algebra 2 with teacher recommendation.
**This course is suited for college-bound seniors.
***7084 – This is a modified curriculum course for students on Individualized Education Plans.
Additional Courses

1411 – TOPICS OF ALGEBRA 1 LAB
0.83 CREDITS
This supplementary course is intended for students whose math skills are below grade level. The course supports such topics as operations with real numbers and order of operations. In addition, students learn to graph both linear equations using tables and slope-intercept method and inequalities. Students are introduced to solving systems of equations using substitution or elimination.

*Prerequisite: Concurrent enrollment in Topics of Algebra

*This supplementary course is taken in conjunction with Topics of Algebra 1 and is suited for students who intend to continue their post-secondary education at a two-year college, post-secondary vocational school, or intend to enter the work force.

1412 – TOPICS OF GEOMETRY LAB
0.83 CREDITS
This supplementary course is intended for students whose math skills are below grade level. The course supports such topics as properties of polygons, properties of circles, volume, area and perimeter of compound figures. Students will also become familiar with properties of triangles, similar and congruent figures and the Pythagorean Theorem. Students will also solve simple problems involving parallel lines.*7422- This is a modified curriculum course for students on Individual Education Plans.

*Prerequisite: Concurrent enrollment in Topics of Geometry.

**This supplementary course is taken in conjunction with Topics of Geometry and is suited for students who intend to continue their post-secondary education at a two-year college, post-secondary vocational school, or intend to enter the work force.

1300 – GRADE 11/12 TITLE I MATH LAB
1.25 CREDITS
This supplementary course is intended for students whose math skills are below grade level. Students begin with a brief review of topics covered in Algebra 1 and continue with systems of equations, rules for exponents and radical expressions. The course includes introduction to matrices, adding and multiplying matrices, quadratic equations, complex numbers, the quadratic formula and its applications, dividing polynomials, combinations and permutations, radical expressions – multiplying and dividing, and rational exponents.

*Prerequisite: Concurrent enrollment in Topics of Algebra 2, Topics of Advanced Algebra & Trigonometry, or Business Math.

**This supplementary course is taken in conjunction with Topics of Algebra 2 and is suited for students who intend to continue their post-secondary education at a two-year college, post-secondary vocational school, or intend to enter the work force.
SCIENCE
Science Department Course Offerings

**COURSE OFFERINGS 2017-2018**

<table>
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The Diman science curriculum is aligned to the Massachusetts Science, Technology, Engineering, and Math (STEM) frameworks. Students are enrolled in either biology or physics in their freshmen year, depending on their aptitude in science and math and their physical or life science related vocational interests. Students learn problem solving skills and gain hands on experience through lecture, demonstrations, and laboratory experiments that help prepare them for their vocational shops, post-secondary education, and their future careers. Diman students take the high school biology or physics Massachusetts Comprehensive Assessment System (MCAS) test in the end of their sophomore year to meet high school science graduation requirements. Diman science teachers are highly qualified under NCLB and ESSA.
Biology 10 is aligned with the Massachusetts State Frameworks and includes an overview of the classifications or organisms, populations, ecosystems, biological communities, the environment, introduction to body structure, and an in-depth study of eight organ systems. It is the second of two courses designed for students who must take the MCAS Biology Test.

*Prerequisite: Biology 9

This course is aligned with the Massachusetts State Frameworks and includes an overview of the chemistry of life, cell structure and function, photosynthesis, cellular respiration, genetics, evolution, and biodiversity. The curriculum includes activities, labs and projects to enhance the learning of the student. It is the second of two courses designed for students who must meet the state requirement on the MCAS Biology Test as part of the graduation requirements for a high school diploma.

*Prerequisite: Honors Biology 9 (2221) or teacher permission

This course is aligned with the Massachusetts State Frameworks and includes the study of electricity, magnetism, electromotive forces, parallel and series circuit design, Ohms law, Kirchhoff’s law, waves, electromagnetic waves (light), and optics. The curriculum includes demonstrations, activities, and labs to enhance the learning of students. Placement is based on the Diman’s honors criteria. It is the first of two courses designed for students who must meet the state requirements on the MCAS Physics Test as part of the graduation requirements for a high school diploma.

*Prerequisite: Honors Physics First 9 (Course #) or teacher permission

This course includes a study of structures, functions, and dysfunctions of major systems of the body. Topics include an introduction to structural units, tissues and membranes, the skeletal system, the integumentary system, and nutrition. Career opportunities in medicine-related fields are examined.
2053 – APPLIED PHYSICS I
2.5 CREDITS
This course is part of a hands-on physics program that studies four unifying concepts and systems: mechanical, fluid, electrical, and thermal. Experiments include levers and pulleys, thermometers, conveyor belts, and electrical circuits.

2033 – CHEMISTRY I
2.5 CREDITS
This course is the study of matter. The content of this course includes modern atomic theory, how chemicals combine, formulas and equations, quantum theory, electron arrangement, chemical and physical properties, and states of matter.

2333 – HONORS APPLIED PHYSICS I
2.5 CREDITS
This course is a hands-on physics program that studies four unifying concepts and systems: mechanical, fluid, electrical, and thermal. Experiments include levers and pulleys, thermometers, conveyor belts, and electrical circuits.

2133 – HONORS CHEMISTRY I
2.5 CREDITS
This course is the study of matter. The content of this course includes modern atomic theory, how chemicals combine, formulas and equations, quantum theory, electron arrangement, chemical and physical properties, and states of matter.

2304 – ANATOMY & PHYSIOLOGY II
2.5 CREDITS
This course includes a study of structures, functions, and dysfunctions of major systems of the body. Topics include blood, the circulatory system, the lymphatic system, the respiratory system, the digestive system, the excretory system, and the reproductive system. Career opportunities in medicine-related fields are examined.

*Prerequisite: Anatomy & Physiology I.

2054 – APPLIED PHYSICS II
2.5 CREDITS
This course is a continuation of Applied Physics I.

*Prerequisite: Applied Physics I.

2034 – CHEMISTRY II
2.5 CREDITS
This course continues the study of chemical techniques and principles.

*Prerequisite: Chemistry I.

2324 – HONORS APPLIED PHYSICS II
2.5 CREDITS
This course is a continuation of Applied Physics I.

*Prerequisite: Applied Physics I.

2134 – HONORS CHEMISTRY II
2.5 CREDITS
This course continues the study of chemical techniques and principles.

*Prerequisite: Chemistry I.

2300 – HONORS ACCELERATED BIOLOGY
2.5 CREDITS
This one-year course will cover the major concepts associated with Biology 9 and Biology 10. As this course will occur in a one-year format (as opposed to a two-year design), Honors Accelerated Biology will be fast-paced and rigorous. Students enrolled in this course should be prepared for several hours of homework per week. Most reading for this course will take place at home, and discussions/application will be covered in class.

*Prerequisite: Teacher recommendation

2063 – MARINE BIOLOGY
2.5 CREDITS
This course is an elective science course for upperclassmen. This course covers the basic principles of marine science, marine organisms, and the different marine ecosystems.

2224 – TOPICS IN BIOLOGY/FORENSICS
2.5 CREDITS
This course gives the student instruction in forensic science. Topics to be covered include evidence collection, the court system, fingerprint evidence, blood evidence, forensic anthropology, and what occurs to the body after death. Students will be certified to serve in Fall River Youth Court and be required to perform at least four hours of community service at the Youth Court.
# Social Studies Department Course Offerings

## COURSE OFFERINGS 2017-2018

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<td>1.25</td>
</tr>
<tr>
<td>Topics in Personal Finance</td>
<td>4444</td>
<td>11/12</td>
<td>2</td>
<td>1.25</td>
</tr>
<tr>
<td>Introduction to Psychology</td>
<td>4113</td>
<td>11/12</td>
<td>2</td>
<td>1.25</td>
</tr>
<tr>
<td>20th Century History through Music and Culture</td>
<td>4114</td>
<td>11/12</td>
<td>2</td>
<td>1.25</td>
</tr>
</tbody>
</table>
The history and social studies curricula are aligned with Massachusetts State Frameworks and are designed to provide students with the knowledge, skills, and judgment to become responsible citizens of the nation and to have an understanding of world issues.

**SOCIAL STUDIES**

**4011 – U.S. HISTORY I**
2.5 CREDITS

This course examines the historical and intellectual origins of the United States during the Revolutionary and Constitutional eras. The basic framework of American democracy and the basic concepts of American government are studied. Students also study America’s westward expansion, the establishment of political parties, economic and social change, the growth of sectional conflict, the Civil War and its consequences, and finally, Reconstruction.

**4012 – U.S. HISTORY II**
2.5 CREDITS

Students will examine the political, social, economic, and cultural aspects of the United States beginning in the mid-19th century through 1945. Topics to be covered include industrialization, labor organization, urban growth, American imperialism, progressive reforms, World War I, The Great Depression, and World War II. Social and political trends are also addressed. Students in this course will identify the ways that these important historical themes changed the United States and impacted the development of the nation.

**4332 – TOPICS IN AMERICAN HISTORY**
0.83 CREDITS

This course provides students with an understanding of the purposes, principles, and practices of American government on the national, state, and local levels. Students in this course will examine the rights and responsibilities of citizenship and how to exercise these rights. The function and role of the legislative, executive, and judicial branches of government on the national, state, and local levels will be examined. Students will study how the purposes, principles, and institutions of government for the American people are established in the United States Constitution and reflected in the Massachusetts Constitution. Landmark Supreme Court cases will also be examined.

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*Prerequisite: Teacher recommendation, entrance writing assessment for all students coming from college prep history, grade over 90% in previous history class. All honors students will be assigned required summer reading.*

**Students who are having difficulty with the honors curriculum are subject to removal. They will be placed into a college prep level class. Students will be identified by November 1st. After November 1st, students may not be able to be moved.*
4004 – CONTEMPORARY U.S. HISTORY
2.5 CREDITS
This course examines the political, social, economic, and cultural aspects of the United States from the end of World War II to the present. Topics to be covered include America’s role in the Cold War, the Civil Rights Movement of the 1950’s and 1960’s, The Korean War, The Vietnam War, and key people, places, and events in the 1970’s and 1980’s. The course will primarily focus on key people, places, and events in the United States since the conclusion of World War II and how they have shaped present day America.

4034 – HONORS CONTEMPORARY U.S. HISTORY
2.5 CREDITS
This course examines the political, social, economic, and cultural aspects of the United States from the end of World War II to the present. Topics to be covered include America’s role in the Cold War, the Civil Rights Movement of the 1950’s and 1960’s, The Korean War, The Vietnam War, and key people, places, and events in the 1970’s and 1980’s. Honors level U. S. History will require students to analyze the important moments in the nation’s development. An important goal of this course is to foster the development of the student’s ability to think critically and read and write proficiently. Research reports, oral presentations, essays, projects, and primary and secondary source readings will be assigned.

*Prerequisite: Teacher recommendation, entrance writing assessment for all students coming from college prep history, grade over 90% in previous history class. All honors students will be assigned required summer reading.

**Students who are having difficulty with the honors curriculum are subject to removal. They will be placed into a college prep level class. Students will be identified by November 1st. After November 1st, students may not be able to be moved.

4124 – WORLD HISTORY
2.5 CREDITS
This course examines the origins and consequences of the Industrial Revolution, political and social reform in 19th century Europe, as well as imperialism in Africa, Asia, and South America. Also studied are the military and economic events of the 19th and 20th centuries, including the rise of nationalism, World War I, the Great Depression, World War II, the Russian and Chinese Revolutions, the Cold War and its aftermath.

4224 – HONORS WORLD HISTORY
2.5 CREDITS
This course covers a wide range of topics from the enlightenment in Europe to the Cold War Era. A focus will be placed on the student’s ability to research and compose college level essays pertaining to history and political matters. This course will examine the varied history of countries from different continents. The intention is to understand the current world climate by examining past events. A critical goal of this course is to foster the development of the student’s ability to read and write proficiently. Research reports, oral presentations, essays, projects, and primary and secondary reading will be assigned.

*Prerequisite: Teacher recommendation, entrance writing assessment for all students coming from college prep history, grade over 90% in previous history class. All honors students will be assigned required summer reading.

**Students who are having difficulty with the honors curriculum are subject to removal. They will be placed into a college prep level class. Students will be identified by November 1st. After November 1st, students may not be able to be moved.
**4053 – CURRENT EVENTS**

This course provides students with an increased knowledge of their environment and the vital issues of the day. Values of citizenship and civic concern are stressed. Students also develop a geographic knowledge of the areas under discussion. Students will be urged to develop opinions and rationale for the events occurring around them and to foster a sense of civic responsibility to their local community, the nation, and the world. Revolutions, the Cold War and its aftermath.

**4444 – TOPICS IN PERSONAL FINANCE**

Students will develop an understanding of the important financial responsibilities of individuals in a global economy. Personal banking, mortgages, credit, loans, savings, stocks and bonds, and more will be introduced. Major economic principles and theories will be presented. Students will explore the relationship between individual citizens, capitalist principles, and government involvement in the financial markets. Emphasis will be placed on having young adults make sound and responsible financial decisions.

**4064 – SOCIOLOGY**

This course provides students with knowledge of the function of the basic units of society and the institutions which aid these units. Students in this course study the concepts, principles, theories, and methods used by sociologists in the examination of social life. The utilities of sociological inquiry are applied to contemporary social issues and events to make sociology meaningful for the student.

**4113 – INTRODUCTION OF PSYCHOLOGY**

This course is designed to help students develop an insight into their own psychological processes and those of others. Members of this course will be provided with an introduction to the content and scope of psychology as a behavioral science and will study of such topics as development, adjustment, learning, intelligence, motivation, emotion, and personality.

**4055 – HISTORY OF SCIENCE AND TECHNOLOGY**

This course examines the history of scientific and technological development and their role in culture and society. From the earliest scientific ideas to be found in Mesopotamia, the Indus Valley, and Ancient China, to Greek Science, the Middle Ages, the Renaissance, and the Modern Era, the course examines the progress of scientific thought. The course addresses issues such as societal attitudes toward science and how culture plays a role scientific and technological development. A philosophical analysis of the advances, functions, and implications of science is used to study how scientific and technological advancements have changed over time and how these changes have impacted our world.

**4114 – 20TH CENTURY HISTORY THROUGH MUSIC AND CULTURE**

A study of the political, social, economic, and cultural history of the United States in the 20th century through the lens of music and culture. Emphasis will be placed on how musical trends have been impacted by reform, war, social injustice and prosperity in the post-WWII era.
PHYSICAL EDUCATION AND HEALTH
# Physical Education and Health Course Offerings

## COURSE OFFERINGS 2017-2018

<table>
<thead>
<tr>
<th>NAME</th>
<th>COURSE #</th>
<th>GRADE</th>
<th>LEVEL</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education 9</td>
<td>5041</td>
<td>9</td>
<td>2</td>
<td>0.83</td>
</tr>
<tr>
<td>Health 9</td>
<td>5051</td>
<td>9</td>
<td>2</td>
<td>0.83</td>
</tr>
<tr>
<td>Physical Education 10</td>
<td>5042</td>
<td>10</td>
<td>2</td>
<td>0.83</td>
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<tr>
<td>Physical Education 11</td>
<td>5053</td>
<td>11</td>
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<tr>
<td>Physical Education 12</td>
<td>5054</td>
<td>12</td>
<td>2</td>
<td>1.25</td>
</tr>
<tr>
<td>Health and Wellness</td>
<td>5554</td>
<td>11/12</td>
<td>2</td>
<td>1.25</td>
</tr>
</tbody>
</table>
Physical Education and Health, as instructional programs, provide a learning environment to develop and improve a student’s physical, emotional, and social abilities, leading to good health, well-being, and fitness. Students are provided with information designed to assist in decision-making concerning a wide range of adolescent health issues.

5041 – PHYSICAL EDUCATION 9
0.83 CREDITS
This course provides freshmen a program of physical education activities designed to promote fitness as well as social and emotional well-being.

5011 – PHYSICAL EDUCATION 11
1.25 CREDITS
This course provides juniors a review of activities in Physical Education 9 & 10 with emphasis on individual fitness and a focus on lifelong fitness activities. Students will be required to keep a personal journal of their health and wellness activities and future goals.

5054 – PHYSICAL EDUCATION 12
1.25 CREDITS
This course provides seniors a review of activities in Physical Education 9, 10 & 11 with emphasis on individual fitness and a focus on lifelong fitness activities. Students will be required to keep a personal journal of their health and wellness activities and future goals.

5051 – HEALTH 9
0.83 CREDITS
This freshmen course is an introduction to health and wellness issues relating to teens and adults. Topics of interest are nutrition, reproduction, personal safety, wellness, consumer health, relationship issues, and healthy decision making.

5054 – HEALTH AND WELLNESS GRADE 11 & 12
1.25 CREDITS
This elective course is designed to give students information about topics such as, nutrition, drugs/alcohol/smoking, disease prevention, personal safety, fitness, weight control, and stress management. These topics were selected in order to help students make healthier decisions now and after high school. As a result, membership in this course helps to promote life-long health and wellness.
### Alternative Electives

**COURSE OFFERINGS 2017-2018**

<table>
<thead>
<tr>
<th>NAME</th>
<th>COURSE #</th>
<th>GRADE</th>
<th>LEVEL</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spanish 1</td>
<td>4213</td>
<td>9-12</td>
<td>2</td>
<td>2.5</td>
</tr>
<tr>
<td>Spanish 2</td>
<td>4214</td>
<td>9-12</td>
<td>2</td>
<td>2.5</td>
</tr>
<tr>
<td>Portuguese 1</td>
<td>4313</td>
<td>9-12</td>
<td>2</td>
<td>2.5</td>
</tr>
<tr>
<td>Portuguese 2</td>
<td>4314</td>
<td>9-12</td>
<td>2</td>
<td>2.5</td>
</tr>
<tr>
<td>Career Readiness 1</td>
<td>5031</td>
<td>9</td>
<td>2</td>
<td>.83</td>
</tr>
<tr>
<td>Career Readiness 2</td>
<td>5052</td>
<td>10</td>
<td>2</td>
<td>.83</td>
</tr>
<tr>
<td>Virtual High School Half-year Course</td>
<td>varies</td>
<td>11-12</td>
<td>1, 2, 5</td>
<td>1.25</td>
</tr>
<tr>
<td>Virtual High School Full-year Course</td>
<td>varies</td>
<td>11-12</td>
<td>1, 2, 5</td>
<td>2.5</td>
</tr>
</tbody>
</table>
This course introduces students to the Spanish language. Students learn vocabulary and concepts of basic grammar, allowing them to communicate information about themselves and others using simple sentences, both orally and in writing. The practice of all four language skills—listening, speaking, reading, and writing—helps students solidify their acquisition of the Spanish language. In addition, students become familiar with cultures of different Spanish speaking countries through a variety of multi-media resources. Active participation in class activities and completion of daily homework assignments are required.

At this level, the student will continue with the communicative approach of the level one course. The four language skills will be further refined with more emphasis on communication. This progression will act as a catalyst that will produce more authentic language situations. New grammatical principles are introduced, and common patterns of sound, order, and structure already learned are studied in greater depth. Vocabulary and grammar is introduced in thematic units that are centered on interdisciplinary and cultural themes. Oral activities are regularly used for practice of intonation, phrasing, and manner of expression. Students at this beginner level will continue to communicate clearly and effectively in stage one of language proficiency set forth by the Massachusetts Foreign Language Curriculum Frameworks.

As an introductory language course, the first year will establish the foundation necessary for language acquisition through varied listening, speaking, reading, and writing activities in the target language. While it is imperative that students gain knowledge of the basic structures of the language, it is also important that they go beyond the simple manipulation of forms. Students are encouraged to think critically and take risks when expressing themselves in the language. In addition, students will be expected to communicate clearly and effectively in stage one of language proficiency set forth by the Massachusetts Foreign Language Curriculum Frameworks. Student assessment will include traditional quizzes and tests, role-playing dialogs, oral/aural quizzes, journal entries, structural and cultural mini projects, and a major research project on target countries, primarily in English. Upon completion of Portuguese I, students perform simple communicative tasks using single words in naming articles in the classroom or listing their favorite foods. Students also use common phrases and expressions to complete simple tasks, such as saying “good morning” and stating their name, age, and where they live.
Career Readiness I is a one-trimester course exposing students to the foundation skills in the areas of employability, management, business communication, and technology. This course addresses the Vocational Technical Education Framework Standardized Strand 4 (Employability and Career Readiness), Strand 5 (Management & Entrepreneurship), and Strand 6 (Technological). As part of the course, students will be required to complete course work in employability, professionalism, business communication, web research, digital citizenship, and Microsoft Word, Excel, and PowerPoint.

Career Readiness II is a one-trimester course exposing students to the foundation skills in the areas of employability, accounting, business law, and entrepreneurship practices, while continuing instruction in business communication. This course addresses the Vocational Technical Education Framework Standardized Strand 4 (Employability and Career Readiness), Strand 5 (Management & Entrepreneurship), and Strand 6 (Technological). As part of the course, students will be required to complete course work in the areas of employability, accounting, business law, entrepreneurship, and business communication.

Virtual High School
As a member of the Virtual High School Collaborative, Diman Regional Vocational Technical High School (VHS) is now able to offer hundreds of additional online courses. The VHS program is open to juniors and seniors with a GPA of 3.0 or above. Students in VHS are given two or four periods in each academic rotation for their VHS class and are responsible for logging in and doing their classwork while in shop or on co-op.
Vocational Programs

EXPLORATORY PROGRAM

All incoming freshmen at Diman participate in an Exploratory program. They will have the opportunity to experience approximately ten programs, some selected by the student and some assigned by the school. After every cycle completed, the program instructor will evaluate students in the following areas: quality of work, effort, potential, conduct/aptitude, and amount of work completed. After the Exploratory program has ended, the student will be asked to select a program that he/she wishes to be placed in permanently. Final program placement is based upon the performance of the student, the recommendation of the shop instructor, and the desire of the student to enter the selected program.
AUTOMOTIVE COLLISION REPAIR AND REFINISHING
The Automotive Collision, Repair, and Finishing program provides students with excellent opportunities to explore and experience numerous aspects of the Auto Body trade. These include developing entry-level skills in surface preparation and minor dent repair. Students are also exposed to more complex operations in refinishing, frame straightening and welding. Students are monitored and closely supervised by highly qualified instructors that work to maximize their potential. Today’s technology is replicated in two modern preparation stations, as well as a state-of-the-art downdraft spray booth and a straightening machine.

**CAREER OPTIONS**

Students graduating from Diman have a variety of job options available to them. Below is a partial list of jobs Diman graduates from this program are qualified for, depending on their level of education.
AUTOMOTIVE TECHNOLOGY

The Automotive Technology program is designed to prepare students for employment opportunities in the automotive industry. Upon completion of this program, students are knowledgeable in all entry-level skills necessary to repair vehicles in any modern auto repair facility. A selection of the many skills learned includes, but is not limited to engine repair and performance, electrical systems, heating, air conditioning, brakes, suspension, and the transaxle. Students are instructed on state emissions requirements and testing of today’s complex automobiles with state-of-the-art dynamometer and electronic equipment. Graduates of this program are prepared to secure employment in a wide variety of occupations in the automotive industry.

CAREER OPTIONS

Students graduating from Diman have a variety of job options available to them. Below is a partial list of jobs Diman graduates from this program are qualified for, depending on their level of education.

<table>
<thead>
<tr>
<th>Diman Diploma</th>
<th>2 Year College</th>
<th>4 Year College</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Entry level auto service technician</td>
<td>• Automotive design engineering</td>
<td>• Automotive design engineer</td>
</tr>
<tr>
<td>• Service writer</td>
<td>• Diesel engineering technician</td>
<td>• College instructor</td>
</tr>
<tr>
<td>• Parts department</td>
<td>• Service manager</td>
<td>• Mechanical engineer</td>
</tr>
<tr>
<td>• Dealership employment</td>
<td>• General manager</td>
<td>• Manufacturing engineer</td>
</tr>
<tr>
<td>• Technical salesperson</td>
<td>• Engineering technician</td>
<td>• Insurance underwriter</td>
</tr>
<tr>
<td></td>
<td>• Research and development technician</td>
<td>• Research and development engineer</td>
</tr>
</tbody>
</table>

Skills & Skill Areas

• Automotive trade orientation
• Servicing lube points/filter levels
• Servicing tires
• Inspecting/repairing exhaust system
• Maintaining/servicing the cooling system
• Maintaining engine electrical system
• Servicing brake system
• Servicing steering/front suspension
• Servicing heating/air conditioning system
• Servicing engine fuel system
• Servicing options/accessories
• Maintaining/repairing engines
• Maintaining/servicing manual transmission/clutch components
• Maintaining/servicing automatic transmission system
• Maintaining/servicing differential
• Driveline
• Servicing the electronics system
• Servicing automotive electrical system
BUILDING AND PROPERTY MAINTENANCE
BUILDING AND PROPERTY MAINTENANCE

Building and Property Maintenance is an interdisciplinary program devoted to the maintenance and care of residential and commercial buildings. The demand for individuals with a diversified vocational knowledge is extremely strong due to the ever-changing environment of our regional employment market.

The skills that Building and Property Maintenance students gain create many pathways that can lead toward a bright and rewarding future.

Students learn to maintain and service buildings and infrastructure, while also ensuring safe work environments. Students understand routine building maintenance procedures, along with understanding the aspects of making continuous improvements to enhance facilities.

CAREER OPTIONS

Students graduating from Diman have a variety of job options available to them. Below is a partial list of jobs Diman graduates from this program are qualified for, depending on their level of education.

<table>
<thead>
<tr>
<th>Diman Diploma</th>
<th>2 Year College</th>
<th>4 Year College</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Building &amp; property manager</td>
<td>• Facilities manager</td>
<td>• Architect</td>
</tr>
<tr>
<td>• Building inspector</td>
<td>• Construction supervisor</td>
<td>• Building Superintendent</td>
</tr>
<tr>
<td>• Carpenter rough/finish</td>
<td>• Construction estimator</td>
<td>• Civil Engineer</td>
</tr>
<tr>
<td>• Groundskeeper / landscape worker</td>
<td>• Designer</td>
<td>• Construction</td>
</tr>
<tr>
<td>• Mason apprentice</td>
<td>• Energy auditor</td>
<td>• Superintendent</td>
</tr>
<tr>
<td>• Repair technician</td>
<td>• Interior decorator</td>
<td>• Plant Engineer</td>
</tr>
<tr>
<td>• Painter apprentice</td>
<td>• Maintenance supervisor</td>
<td>• Project Manager</td>
</tr>
<tr>
<td>• Sheetrock/plasterer</td>
<td>• Real estate appraiser</td>
<td></td>
</tr>
<tr>
<td>• Small engine technician</td>
<td>• Real estate sales</td>
<td></td>
</tr>
</tbody>
</table>

Skills & Skill Areas

- OSHA 10-hour safety
- Blue print reading
- Carpentry and woodworking
- Ceramic tiling
- Chief architect design software
- CNC machine operations
- Energy / green technologies
- HVAC maintenance
- Hazardous material
- Landscaping / groundskeeping
- Vinyl lettering
- Wood / vinyl siding
- Machine processes
- Masonry
- Metal fabrication
- Oxy-fuel cutting
- Plasma cutting
- Scaffolding
- Sheetrock and drywall
- Sign making
- Small engine repair and maintenance
- Spray finishing
- Painting
- Plumbing procedures
- Welding processes
BUSINESS TECHNOLOGY

The Business Technology program prepares students for a wide range of office careers. In a simulated office setting utilizing state-of-the-art equipment, students become acquainted with the skills, abilities, and attitudes needed for a successful job performance in a business setting. Students explore a wide range of office skills including keyboarding, word processing, spreadsheets, database development, and presentations.

Upon successful completion of the Microsoft Office applications curriculum, students sit for the Microsoft National Certifications in Word, Excel, Outlook, and PowerPoint. Students are also introduced to Adobe Photoshop and web design in their junior year. In addition to software applications, the Business Technology curriculum covers such topics as records management, accounting, financial literacy, operation of office machines, and general office procedures.

Students who complete this program will be highly prepared for employment in today’s business world and have the opportunity to earn 29 college credits and receive a Certificate in Office Skills Training from Bristol Community College upon graduation from Diman. A majority of Diman’s juniors and seniors participate in the Co-op Program and are employed in various business environments within the community. With further training in this field, additional opportunities for career advancement increase.

CAREER OPTIONS

Students graduating from Diman have a variety of job options available to them. Below is a partial list of jobs Diman graduates from this program are qualified for, depending on their level of education.

### Diman Diploma
- Administrative Assistant
- Receptionist
- Data entry specialist
- Bank teller
- Accounts receivable/payable clerk
- Bookkeeper
- Payroll clerk
- Word Processor

### 2 Year College
- Administrative assistant
- Medical secretary
- Legal secretary
- Executive secretary
- Court stenographer
- Payroll supervisor
- Financial Services
  - Banking
  - Financial Management
  - Real Estate and Insurance
- General Management
- Leisure Services Management
  - Geotourism
  - Destination Management
  - Sports Management
- Marketing Management
- Retail Management
- Web Designer

### 4 Year College
- Systems Analyst
- Manager of information systems
- Database administrator
- Computer programmer
- Records manager
- Business teacher
- Accountant
- Marketing Manager
- Financial Analyst
- Operations Manager
- Human Resources Manager

### Skills & Skill Areas
- Microsoft Office (Word, Access, Excel, PowerPoint)
- Windows
- Accounting
- Desktop publishing
- Machine transcription
- Marketing
- Office procedures
- Records management
- Keyboarding
- Professional development
- Advertising
- Entrepreneurship
- Quickbooks
CARPENTRY-CABINETMAKING
Students entering in the Carpentry - Cabinetmaking program are instructed in the safe and proper use of hand tools, portable power tools, and stationary power equipment. They are also instructed in layout, design, and various machining methods. These skills are then used to fabricate progressively-more-difficult projects, ultimately leading to the introduction of Computerized Numerical Controlled (C.N.C.) Training in the state-of-the-art multi-cam routers and the S.C.M.I. point-to-point machining center.

A portion of this program addresses the building of a house. Junior and senior students construct a residential home in one of our member communities. Students are instructed in rough framing techniques, shingling, exterior finish, interior finish, as well as built-in cabinets and the installation of custom cabinetwork.

The Carpentry-Cabinetmaking program provides students with the skills necessary to compete in today’s highly technical and demanding building trade industry.

**CAREER OPTIONS**

Students graduating from Diman have a variety of job options available to them. Below is a partial list of jobs Diman graduates from this program are qualified for, depending on their level of education.
CULINARY ARTS
Diman’s Culinary Arts program covers the full scope of the culinary arts field and introduces students to food science and applied technologies. The shop has the most up-to-date, state-of-the-art equipment available, similar to area restaurants and conference centers. A vast variety of food products and cooking methods are taught at both American and international cooking cuisine methods.

The school’s restaurant, Room 251 which is open to the public, provides five star services incorporating several service styles. Our new state-of-the-art Posi Touch computer system exposes students to industry standards in a real restaurant setting.

Under the watchful eyes of a highly-qualified staff, students are also exposed to a full baking and dining room management experience.

Students in their senior year can participate in the Cooperative Education program, in which the Culinary Arts program has an extremely successful record. Working in the various food service operations in the community allows for a greater learning experience.

A large inventory of culinary videos, textbooks, resource and research materials are available in the related classroom.

Diman’s Culinary Arts program is a Premier ProStart School and is involved in SkillsUSA, where students have the opportunity to compete in local, district, state, and national competitions.

**CAREER OPTIONS**

Students graduating from Diman have a variety of job options available to them. Below is a partial list of jobs Diman graduates from this program are qualified for, depending on their level of education.

**Diman Diploma**
- Assistant cook
- Wait staff
- Broiler cook
- Host or hostess
- Bakery assistant
- Cashier
- Fast food or short order cook
- Sandwich cook

**2 Year College**
- Food service manager
- Caterer
- Bakery owner
- Restaurant owner
- Banquet manager
- Executive chef
- Food technologist
- Meat grader/inspector

**4 Year College**
- Dietician
- Nutritionist
- Vocational technical instructor
- College instructor
- Hotel/restaurant management
- Executive chef

**Skills & Skill Areas**
- Personal hygiene
- Sanitation
- Safety
- Cooking methods
- Breakfast preparation
- Salads/salad dressing preparation
- Soups & stocks
- Vegetable starch preparation
- Sauces & gravies
- Meat preparation
- Poultry
- Seafood
- Dining room
- Purchasing storage
- Baking pastry preparation
- Yeast raised products
- Cake & cookie batter
- Icings
DENTAL ASSISTING
DENTAL ASSISTING

The Dental Assisting program trains and educates students to be skilled dental assistants. The responsibilities of a dental assistant are challenging and include a wide range of tasks requiring interpersonal and technical skills. As a valuable member of the dental care team, dental assistants work side-by-side with the dentist to increase the efficiency and quality of oral health care.

The Dental Assisting program offers students the opportunity to take the Dental Assisting National Board Exam in Infection Control and Radiation Health and Safety. The students are also certified in BLS/CPR and OSHA 10 hour safety.

Students receive intense hands-on training in the dental shop at Diman, as well as clinical rotations at local dental offices. Clinical experience can also be obtained through Diman’s Cooperative Education Program.

The program requires devoted time to intensive instruction needed to pass national certification examinations. Therefore, students with average to above average academic grades in science and English are recommended. Students with good manual dexterity and interpersonal skills are also required.

Career opportunities can include flexible hours with part-time and full-time employment.

CAREER OPTIONS

Students graduating from Diman have a variety of job options available to them. Below is a partial list of jobs Diman graduates from this program are qualified for, depending on their level of education.

CERTIFICATION

Certifications are an important component of the dental profession.

Freshmen year, the students complete the OSHA Career Safe 10-hour online training program. Students qualify for a certificate in Basic Life Support for Healthcare Providers (BLS/CPR) from the American Heart Association.

The Dental Assisting National Board (DANB) is the certifying body for Dental Assistants; Sophomore students qualify for the DANB Infection Control Exam (ICE) upon successful completion of the infection control curriculum.

Junior students qualify for the DANB Radiation Health and Safety Exam (RHS) upon successful completion of the radiology curriculum.

*The DANB General Chairside Certification is available to students who complete 3,500 hours of clinical assisting. Hours may be accrued from cooperative education and post-graduation hours.

* Upon graduation, students are recommended to apply for their dental assisting license, which is required by the Commonwealth of Massachusetts Division of Health Professions Licensure Board of Registration in Dentistry. Applicants must be at least 18 years of age and be certified in Infection Control, Radiology and CPR.

CONTINUING EDUCATION

Upon completing full certification in Dental Assisting (CDA) and/or registering as a dental assistant (RDA), dental assistants must earn 12 credits per year in related educational material in order to maintain their certification. Credits can be obtained by attending the Yankee Dental Conference in Boston and/or participating in professional development lectures (including online and home study courses) and voluntary clinical services.

COMMUNITY SERVICE

The students participate in community service projects involving teaching oral hygiene care to preschoolers and school age children. Students also have multiple opportunities to volunteer in health fairs and free dental clinics throughout the community.

SKILLSUSA

Students participate in leadership and technical skill competitions each year. The program has enjoyed success with winners in several events. Dental Assisting students have won gold, silver and bronze medallions at the state and national levels in Opening and Closing Ceremonies, Prepared Speech, Health Occupations Professional Portfolio, Career Pathways, Job Skills Demonstrations, Techspo, Job Interviewing, and Technical Skills competitions.
In the Drafting program, students learn to communicate thoughts and ideas by using graphic representation. Drafting students translate design concepts through sketches, details, assemblies, specifications and 3-D solid models. To generate their drawings, Drafting students use computer-aided-drafting (CAD) systems, technical handbooks, tables, and calculators. Students increase their general technical knowledge by learning engineering and manufacturing processes used in industry.

The Drafting curriculum provides instruction predominately in mechanical drafting during the freshman, sophomore and senior years. The junior year is strongly focused on residential architecture. There is also an introduction to civil, structural, electronic, and electrical drafting. Field trips to local businesses provide a realistic industrial setting of an engineering/design department. Students also make regular visits to Diman’s house building job site where they see first-hand the complete construction of a residential home. Students are encouraged to participate in the Cooperative Education program.

The Drafting program generates working drawings required for projects that are being completed by other programs, such as Machine Tool Technology, Metal Fabrication, and Carpentry / Cabinetmaking.

Objectives of a Drafting student are accuracy, legibility, neatness, and speed. Students should also have the ability to visualize objects, along with possessing good communication and math skills.

**CAREER OPTIONS**

Students graduating from Diman have a variety of job options available to them. Below is a partial list of jobs Diman graduates from this program are qualified for, depending on their level of education.

<table>
<thead>
<tr>
<th>Diman Diploma</th>
<th>2 Year College</th>
<th>4 Year College</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detailed draftsperson</td>
<td>CAD drafter</td>
<td>Mechanical engineer</td>
</tr>
<tr>
<td>Drafter assistant</td>
<td>Design checker</td>
<td>Manufacturing engineer</td>
</tr>
<tr>
<td>CAD detailer</td>
<td>CAD manager/engineering technician</td>
<td>Architectural engineer</td>
</tr>
<tr>
<td>Technical salesperson</td>
<td>Civil engineering technician</td>
<td>Civil engineer</td>
</tr>
<tr>
<td>Mechanical drafter</td>
<td>Electrical engineering technician</td>
<td>Structural engineer</td>
</tr>
<tr>
<td>Architectural drafter</td>
<td>Landscape designer</td>
<td>Field engineer</td>
</tr>
<tr>
<td>Manufacturing supervisor</td>
<td>Manufacturing supervisor</td>
<td>Industrial engineer</td>
</tr>
<tr>
<td>Quality control inspector</td>
<td>Quality control inspector</td>
<td>Applications engineer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sales engineer</td>
</tr>
</tbody>
</table>

**Skills & Skill Areas**

- Introduction to drafting
- Safety / OSHA 10 hour card
- File management and directory structure
- Paper size / title blocks and templates
- Scales & measurements
- Instrument drawing
- Intro to solid modeling & chief architect software
- Technical mathematics
- Geometric construction
- Working drawings
- Orthographic projection
- Dimensioning
- Basic tolerancing
- Manufacturing processes
- AutoCAD commands
- Basic CAD drawings
- Revolutions
- Sectional views
- Auxiliary views
- Isometrics
- Intersections & developments
- Oblique projection
- Threads fasteners & springs
- Welding representation
- Drawing revisions
- Introduction to architecture
- Architectural drawings
- Structural drawings
- Electrical & electronic drawings
- Power transmission systems
- Design concepts
- Advanced CAD applications
- Employment preparation
- Detailed assembly drawings
- Geometric dimensioning & tolerancing
- SolidWorks 3D Design Software
- Catalyst EX 3D Printing Software
- Stratasys Objet 30 3D
- Printing Software
- Printing 3D Models
- 3D Printer Maintenance
Diman’s Electricity program offers a comprehensive and integrated program in math, science, and process writing. Students are taught all facets of residential, commercial, and industrial writing in accordance with the National and Massachusetts Electrical Code. This instruction includes:

- Trade skills
- Electrical theory
- Computer skills
- Structural blueprint reading
- Construction principles
- Electrical estimating

Additionally, the Electricity program offers extensive training in electrical maintenance, with students troubleshooting electrically-controlled equipment in an actual trade setting. Students study single-phase and three-phase transformation utilizing state-of-the-art programmable logic controllers. Wiring and schematics diagrams are used extensively to complete the course of study.

**CAREER OPTIONS**

Students graduating from Diman have a variety of job options available to them. Below is a partial list of jobs Diman graduates from this program are qualified for, depending on their level of education.

---

**Skills & Skill Areas**

- Electrical safety
- Protective devices
- Programmable logic controls
- Material safety data sheet
- Circuit breakers & fuses
- Communication Wiring
- Electrical theory AC & DC
- Single-phase transformers
- Solar photovoltaic systems
- Wiring methods & materials
- Three-phase transformers
- Wind generation
- Residential finish wiring
- Single-phase motor controls
- Fire alarm & burglar systems
- Residential rough wiring
- Three-phase motor controls
- Industrial wiring
- Direct current motor controls
- Commercial wiring
- Schematic diagrams (CAD)
- Blueprint reading
- Service installations
The Electronics Technology program provides a sound foundation in AC & DC circuit theory and the effects that both passive and active components have on circuit operations. Students study analog and digital circuitry with a heavy emphasis on project based learning. Theoretical concepts are taught followed by hands-on projects which help further develop the students understanding using the engineering design process.

The related portion of the program integrates shop practices, procedure, and methods, along with English Language Arts and a heavy emphasis on STEM instruction. Mathematical concepts are introduced in a logical manner, as they relate to their area of study, and many principles of science are incorporated. Integration in these areas of study not only provide an occupationally skilled graduate with vocational and academic competency, but a more confident graduate, better able to reach their own full potential in this highly technical career field. An emphasis is placed on industrial and digital electronics as well as on computers. National certifications are available to students who demonstrate proficiently in specific electronics areas.

Graduates are actively employed in areas of industrial electronics, computers, research and development, electronics equipment manufacturing, marine navigational computers, electronics control, and measuring equipment.

Students in this program must have a strong mathematical and mechanical aptitude and normal color perception.

CAREER OPTIONS

Students graduating from Diman have a variety of job options available to them. Below is a partial list of jobs Diman graduates from this program are qualified for, depending on their level of education.

Diman Diploma
- Electronic technician
- Computer technician
- Data communications technician
- Network support technician
- Field service technician

2 Year College
- Electronics CAD person
- Electronic technician
- Computer technician
- Data communications technician
- Fiber optics technician

4 Year College
- Electronics engineer
- Robotics engineer
- Telecommunication engineer
- Electrical engineer
- Mechanical engineer

Skills & Skill Areas
- DC circuits
- AC circuits
- Analog circuits
- Digital circuits
- Robotic design & construction
- Troubleshooting skills
- Soldering skills
- Electronics CAD drawing
- Circuit/project prototyping & fabrication
- Basic engineering concepts & skills
- Engineering documentation production
- Microprocessor programming
The philosophy of the Graphic Communications program is to provide students the opportunity to work in ten different areas in the Graphic Communications field, as well as opportunities to create their own conceptual designs using the Adobe Creative Suite. In the traditional offset department, students learn how to operate printing presses from a single color duplicator to a four color press. Students also have the ability to operate digital presses in a quick print area. In the apparel section, students can produce embroidery clothing as well as both digital and manual screen printing. They will also learn the process of thermal printing for apparel and sign making processes. Students will be introduced to the dye sublimation process. Within the overall program, the program provides all aspects of the Graphic Communications industry through the experiential curriculum. Students will develop a professional portfolio that will give them an advantage in the Graphic Communication field upon graduation.

CAREER OPTIONS
Students graduating from Diman have a variety of job options available to them. Below is a partial list of jobs Diman graduates from this program are qualified for, depending on their level of education.

CERTIFICATIONS
Work force ready in:

- Introduction to Graphic Communications
- Advertising and Design
- Offset press operations & binding and finishing
- Desktop publisher and digital file output
- Digital production printing
- Screen printing
- OSHA Certification
- Adobe Certifications

Skills & Skill Areas
- Identifying general safety practices
- Orientation to Graphic Communications
- Proofreading
- Customer service
- Platemaking
- Offset lithography process
- Prepress
- Graphic design and layout
- Adobe Creative Suite
- Dye sublimation
- Marketing
- Thermography
- Bindery operations
- Desktop publishing
- Screen printing
- Typography
- Vinyl lettering
- Embroidery
- Sign making
- Digital printing
- Variable printing
- Thermal printing
HEALTH ASSISTING
The Health Assisting program offers bright prospects for students seeking rewarding careers in one of the fastest growing employment areas. The overall objective of the program is to give each student an opportunity to develop his/her unique potential and achieve personal, academic, vocational/technical, and civic goals. This is accomplished by providing, in conjunction with other school activities and programs, a state-of-the-art, integrated academic, and a vocational/technical program that focuses on knowledge, skills, and dispositions needed by contemporary health care workers both in general and in select specialty areas.

Qualified students may take the certifying exams for the following:

- OSHA 10-Hour General Industry
- National Safety Council First Aid
- American Heart Association BLS for Healthcare Providers (CPR)
- MA Department of Public Health Nurse Aide
- MA Council for Home Care Aide Services Home Health Aide
- National Healthcare Association EKG Technician
- MA Council of Human Service Providers Direct Support Specialist

Clinical experiences are provided in select health care-related agencies. Employment opportunities exist in diverse health care settings even before graduation. Those who gain additional education may pursue certification, registration, or licensure in nursing and dental careers, diagnostic services, emergency medical services, psychological and social services, rehabilitative services, nutrition and dietary services, etc.

**CAREER OPTIONS**

Students graduating from Diman have a variety of job options available to them. Below is a partial list of jobs Diman graduates from this program are qualified for, depending on their level of education.

**Skills & Skill Areas**

- Using medical terminology
- Communicating verbally and non-verbally
- Identifying ethical and legal responsibilities
- Demonstrating employability skills
- Demonstrating health and safety practices and responding to emergencies
- Preventing the spread of disease
- Demonstrating practices and procedures to respond to client needs
- Assisting the client in activities of daily living
- Performing special procedures and administering comfort measures
- Assisting with nutrition and hydration
- Assisting clients with cognitive impairments
- Performing the fundamentals of health care office management
- Using modern technology related to the healthcare field
- Demonstrating skills in select specialty areas- home healthcare, phlebotomy, electrocardiography, and human services
HEATING, VENTILATION, AIR CONDITIONING, REFRIGERATION
HEATING, VENTILATION, AIR CONDITIONING, REFRIGERATION

The Heating, Ventilation, Air Conditioning, and Refrigeration Technology program is designed to prepare students for employment in the heating, ventilation, air conditioning, and refrigeration industries. Upon completion of this program, students are knowledgeable in all of the major areas of the heating, ventilation, air conditioning, and refrigeration trade necessary to repair and install today’s high tech equipment.

In each area, students cover the basics of each system and learn to assemble and troubleshoot the various devices necessary for the systems. The student will become familiar with the mechanical and electrical components necessary to work in the field.

Students learn Environmental Protection Agency (EPA) rules and regulations about refrigeration containment and needs. The school provides certification opportunities twice a year, in the fall and in the spring, by an outside agency.

CAREER OPTIONS
Students graduating from Diman have a variety of job options available to them. Below is a partial list of jobs Diman graduates from this program are qualified for, depending on their level of education.

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<thead>
<tr>
<th>Diman Diploma</th>
<th>2 Year College</th>
<th>4 Year College</th>
</tr>
</thead>
</table>
| • Commercial or residential HVAC/R apprentice  
• Ductwork installer  
• HVAC/R supply person  
• Apprentice HVAC/R technician  
• HVAC/R installer trainee  
• Assistant maintenance technician | • HVAC/R technician  
• System designer  
• Project cost estimator  
• Apprentice HVAC/R engineer  
• Assistant facilities manager  
• Assistant project manager | • HVAC/R engineer  
• Design engineer  
• Facilities manager  
• Project manager  
• Senior system designer |

Skills & Skill Areas
- Fundamentals of refrigeration
- Refrigeration tools & materials
- Soldering & welding equipment
- Basic refrigeration system
- Refrigerants
- Domestic refrigerator & freezers
- Pipe fitting
- Install & service small hermetic system
- Electrical-magnetic fundamentals
- Electrical circuits & controls
- Electrical motors
- Steam type service valves
- Gauge manifold
- Refrigerant controls
- Commercial systems
- Commercial systems application
- Commercial systems-installing & servicing
- Automobile air conditioning
- Commercial systems heat loads & piping
- Blueprint reading
The Machine Tool Technology program offers students the opportunity to experience the latest technology in the machine tool industry. Machine Tool Technology students receive training through hands-on experience that replicates operations used in industry. Metal parts are produced through the use of lathes, millers, surface grinders, Computerized Numerical Control (C.N.C.) machines, electrical discharge machines, and heat-treating.

Graduates can gain employment as manufacturing technicians, inspectors, machinists, tool and die makers, and computerized numerically controlled programmers. For those students wishing to go on to higher education, opportunities include mechanical engineering, manufacturing engineering, industrial engineering, and vocational teaching opportunities.

**CAREER OPTIONS**

Students graduating from Diman have a variety of job options available to them. Below is a partial list of jobs Diman graduates from this program are qualified for, depending on their level of education.

---

**Skills & Skill Areas**

- Language of measurement & quality control
- Hand tools & processes
- Horizontal & vertical band machines
- Lathes, introduction & operation
- Hand tapping processes
- Outside threading (die cut)
- Reaming technology, hand & machine
- Milling machines (vertical)
- Computerized numerical control milling
- Computerized numerical LATHE
- Surface plate work
- Heat treating
- Wire EDM
- Belt sander
- Surface grinders
- Bandsaws
- CAD-CAM programming
- Coordinate measuring machine
- Proto trak lathe
- Proto trak 3 axis mill
- Acu-rite 3 axis mill

---

**Diman Diploma**

- Entry level machinist
- Production worker
- CNC Operator
- CNC Set-up Person
- CNC Programmer
- Quality Control Technician
- Apprentice Tool Maker
- Maintenance Machinist

**2 Year College**

- Tool and die machinist
- CNC programmer
- Production engineer
- Quality control engineer
- Foreman

**4 Year College**

- Mechanical engineer
- Metallurgist technician
- Welding engineer
- Vocational technical instructor
- College instructor
METAL FABRICATION AND JOINING TECHNOLOGIES
The Metal Fabrication and Joining Technology program educates students on how to fabricate various metals to blueprint specifications. Students also learn how to safely operate essential machinery, such as bending brakes, cutting shears, forming rolls, punches, and welders. In the Sheet Metal Program, students learn the proper procedures for laying out fabricated duct work fittings for the Heating, Ventilating and Air Conditioning industry.

The Metal Fabrication program teaches students how you properly lay out, cut, fabricate, and tack weld various metals ranging in thickness from 1/16” to ½” thick according to blueprint specifications. The Welding program teaches students the proper techniques and procedures in SMAW, GMAW, GTAW, OAW, OAC, PAC, CNC plasma cutting, Water jet cutter technology, needed to become proficient in successfully cutting and joining various materials. Related classroom theory is taught in areas such as safety with a mandatory 10 Hour OSHA Safety Training course, resulting in a certificate for general construction safety, trade math, blue print reading, American Welding Society Rules and Procedure, sheet metal layout, technical writing, employability skills, and portfolio.

**CAREER OPTIONS**

Students graduating from Diman have a variety of job options available to them. Below is a partial list of jobs Diman graduates from this program are qualified for, depending on their level of education.

### Skills & Skill Areas

- Competency orientation
- Safety (OSHA 10 hour certification)
- Metal identification
- Hand tools
- Hand operated equipment
- Power equipment
- Measurement (linear, angular, weight, metrics, etc.)
- Sheet metal layout (parallel line, radial line, triangulation)
- Blue print reading (welding, sheet metal)
- Fastening Metal (1/8” stock and heavier)
- Assembly methods
- Oxygen-fuel cutting, welding and heating
- Plasma cutting and programming
- CNC water jet cutting
- SMAW, GMAW, GTAW welding
- Gouging
- Employability skill and portfolio

<table>
<thead>
<tr>
<th>Diman Diploma</th>
<th>2 Year College</th>
<th>4 Year College</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ship Building</td>
<td>Foreman</td>
<td>Mechanical Engineer</td>
</tr>
<tr>
<td>Entry Level Sheet Metal Worker</td>
<td>Project Cost Estimator</td>
<td>Welding Engineer</td>
</tr>
<tr>
<td>Fabricator</td>
<td>Project Manager</td>
<td>Vocational Technical Instructor</td>
</tr>
<tr>
<td>Welder</td>
<td>System Designer</td>
<td>College Instructor</td>
</tr>
<tr>
<td>Production Worker</td>
<td>Weld Inspector (CWI)</td>
<td>Senior System Designer</td>
</tr>
<tr>
<td>Sheet Metal Apprentice</td>
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<tr>
<td>Travel Opportunities</td>
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</tr>
</tbody>
</table>
PLUMBING
PLUMBING

The Plumbing program provides students with opportunities to experience numerous aspects of the trade. Students develop skills in assembling black steel pipe, copper tubing, and cast iron soil pipe. Safety is emphasized throughout the four-year program. Students are taught the proper use of hand and portable power tools. They are also exposed to welding as it applies to the plumbing trade.

The junior and senior program curricula provide opportunities for live work, thus allowing students the occasion to work on school and community maintenance projects. Many of the plumbing and heating projects provide students with educational experiences that allow them to use their mechanical aptitudes and abilities to solve engineering problems through critical thinking skills and creativity.

CAREER OPTIONS

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<th>Diman Diploma</th>
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<th>4 Year College</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apprentice plumber/gas fitter</td>
<td>Journeyman plumber/gas fitter</td>
<td>Systems engineer</td>
</tr>
<tr>
<td>Plumbing supply house worker</td>
<td>Warehouse sales representative</td>
<td>Civil engineer</td>
</tr>
<tr>
<td>Waste water treatment facility worker</td>
<td>Jobsite foreman</td>
<td>Water treatment scientist</td>
</tr>
<tr>
<td>Pipe fitter apprentice</td>
<td>Estimator</td>
<td></td>
</tr>
<tr>
<td>Sprinkler fitter apprentice</td>
<td>Journeyman pipe fitter</td>
<td></td>
</tr>
<tr>
<td>Technical support worker</td>
<td>Journeyman sprinkler fitter</td>
<td></td>
</tr>
</tbody>
</table>

Skills & Skill Areas

- Assembling steel piping
- Assembling copper tubing
- Assembling cast iron pipe
- Assembling plastic pipe
- Supporting pipe/tubing
- Drill notching cutting
- Installing hot water appliances
- Repair & maintenance
- Venting gas appliances
- Oil storage system
- Pipe fitting
- Roll-grooving
- Troubleshooting
- Hydronic heating system
- Radiation (heating)
- Heating accessories
- Boiler controls
- Clearing drain stoppages
- Installing/sizing gas piping
- Well pumps/booster pumps
- Backflow preventers
- Special waste
- Roughing fixtures
- Venting fixtures
- Installing/sizing a water distribution system
- Print reading
- OSHA Certification

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NON-DISCRIMINATION STATEMENT:
Diman Regional Vocational Technical High School does not discriminate in its educational programs, hiring practices, or activities on the basis of race, color, national or ethnic origin, ancestry, age, religion or religious creed, disability or handicap, sex or gender (including pregnancy, sexual harassment and other sexual misconduct including acts of sexual violence such as rape, sexual assault, sexual exploitation and coercion), gender identity and/or expression (including a transgender identity), sexual orientation, military or veteran status, genetic information, or any other characteristic protected under applicable federal, state or local law. Retaliation is also prohibited. Diman Regional Vocational Technical High School will comply with state and federal laws such as M.G.L. c. 151B, Title IX, Title VI and Title VII of the Civil Rights Act, the Americans with Disabilities Act, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination in Employment Act, and other similar laws that prohibit discrimination.

Rev 4/29/15
Focusing Upon Exceptional Teaching and Learning
In All That We Do

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