

**B.M.C. Durfee High School**  
**Class 2015**  
**Freshmen Course Offerings**



*ALL STUDENTS AND FAMILIES ARE ENCOURAGED TO VIEW THE COMPLETE  
DURFEE PROGRAM OF STUDIES ONLINE AT [www.durfeehigh.com](http://www.durfeehigh.com)*

**ENGLISH LANGUAGE ARTS**

**09211 Honors Pre-Advanced Placement English: Grades 9/10/11 1.25 Credits**

Pre-AP English is a preparatory class for students who have been recommended for enrollment by their freshmen and sophomore teachers as having an excellent command of the English language through evidence of writing, speaking, and critical analysis. The focus is on major literary figures of each age found in American and British Literature. This course will replace the grade appropriate core English course. This class is meant for students who plan to take AP language and/ or literature. Students in this course will receive an additional .25 credit to reflect the rigor in the students GPA.

- **PREREQUISITE: Teacher recommendation**

**09101 English I: Honors 1 Credit**

Honors English is a course designed for a motivated student is ready for an academic challenge at an accelerated pace. Through a rigorous curriculum, freshmen will be exposed to reading, writing and oral communication through a survey of literature. Within writing, students will engage in persuasive, narrative and expository text structures. Grammar usage and vocabulary are covered through compositions and the interpretations of various genres, such as short fiction, non-fiction, drama, poetry and novels. The goal is to prepare students for a diverse 21<sup>st</sup> Century society in either an academic or career setting.

**09102 English I: College Prep 1 Credit**

Academic English 9 is a yearlong course designed to prepare students as they gain a command of English and literacy skills that will prepare them for college and career pathways. Through a rigorous curriculum, freshmen will focus on reading, writing and oral communication for the 21<sup>st</sup> Century. In literature, reading is undertaken in the interpretation and analysis of various genres, such as short fiction, non-fiction, drama, poetry, and the novel. Reading and writing exercises are studied similar to those on the MCAS test taken in the sophomore year.

**09802 Enrichment Lab English I CP .4 Credits**

This course is designed for college bound freshman students who may need additional assistance with mastering English I. This class will meet twice a week. This course will reinforce all of the topics from CP English I. *This class must be concurrently taken with CP English I.* This course provides elective credit.

- ✓ **Prerequisite:** Concurrent enrollment in CP English I.

**MATHEMATICS**

**10251 ACCELERATED GEOMETRY/ALGEBRA II: Honors 2 Credits**

This year long course is designed for the college bound, **freshman student** who wishes to achieve the highest possible level in mathematics. This course will cover all of the topics from Honors Geometry and Algebra II at an accelerated pace. Each course, geometry and algebra II will be completed in one semester. **A graphing calculator is required.**

- Prerequisite:** Recommendation of middle school teacher and passing a placement test or Dept. Head approval.

**10201 PLANE GEOMETRY: Honors****1 Credit**

Some of the major topics covered during this year long course include lines, planes, angles, polygons, congruence, similarity, circles, trigonometry, areas, and volumes. A primary aim of the course will be the development of logical thinking through geometric proofs. Students who elect this course should be prepared for a faster pace and a more rigorous workload. **A graphing calculator is recommended.**

*Prerequisite: At least an 80 in Honors Algebra I. Exception: Students may be allowed to take Geometry and Algebra II concurrently at the request of the Algebra I teacher and the Department Head of Mathematics.*

**10212 PLANE GEOMETRY: College Prep****1 Credit**

Some of the major topics covered during this year long course include lines, planes, angles, polygons, congruence, similarity, circles, areas, and volumes. A primary aim of the course will be the development of logical thinking. **A scientific calculator is recommended.**

*Prerequisite: A passing grade in Algebra I.*

**10101 ALGEBRA I: Honors****1 Credit**

Some of the major topics covered during this year long course include linear equations and functions, slope, linear inequalities, systems of equations, polynomials, factoring, quadratic functions, and radical and rational functions. A primary aim of the course will be the development of a variety of methods used to solve more complex algebraic equations. Students who elect this course should be prepared for a faster pace and a more rigorous workload. A graphing calculator is recommended.

*Prerequisite: At least an 80 in the student's previous math class.*

**10122 ALGEBRA I: College Prep****1 Credit**

Some of the major topics covered during this year long course include linear equations and inequalities, slope, functions, systems of equations, polynomials, factoring, quadratic functions, and radicals. A primary aim of the course will be the development of a variety of methods used to solve more complex algebraic equations. A scientific calculator is recommended.

**10802 ENRICHMENT LAB ALGEBRA I CP****.4 Credits**

This course is designed for college bound freshman students who may need additional assistance with mastering Algebra I. This class will meet twice a week. This course will reinforce all of the topics from CP Algebra I.

*This class must be concurrently taken with CP Algebra I.* This course provides elective credit.

✓ *Prerequisite: Concurrent enrollment in CP Algebra I.*

**SCIENCE****15211 HONORS BIOLOGY****1.2 Credits**

✓ **This class will have a double period once per week**

This is a standards based course, which incorporates the Massachusetts Science Curriculum Frameworks. Topics include structure and composition of organic molecules, structure and function of cells, hydrolysis, dehydration synthesis, protein synthesis, genetics, human anatomy and physiology, evolution and biodiversity, taxonomy, and ecology.

**15202 COLLEGE BIOLOGY****1.2 Credits**

✓ **This class will have a double period once per week**

This course is a standards based course, which incorporates the Massachusetts Science Curriculum Frameworks. Topics include structure and composition of organic molecules, structure and function of cells, hydrolysis, dehydration synthesis, protein synthesis, genetics, human anatomy and physiology, evolution and biodiversity, taxonomy, and ecology.

## **SCIENCE (cont.)**

### **15241 HONORS MARINE BIOLOGY**

**1.2 Credits**

✓ **This class will have a double period once per week**

This is a standards based course, which incorporates the Massachusetts Science Curriculum Frameworks. Topics include structure and composition of organic molecules, structure and function of cells, hydrolysis, dehydration synthesis, protein synthesis, genetics, human anatomy and physiology, evolution and biodiversity, taxonomy, and ecology with an emphasis on marine sciences.

### **15232 COLLEGE MARINE BIOLOGY**

**1.2 Credits**

✓ **This class will have a double period once per week**

This course is a standards based course, which incorporates the Massachusetts Science Curriculum Frameworks. Topics include structure and composition of organic molecules, structure and function of cells, hydrolysis, dehydration synthesis, protein synthesis, genetics, human anatomy and physiology, evolution and biodiversity, taxonomy, and ecology with an emphasis on marine sciences.

### **15311 HONORS CHEMISTRY**

**1.2 Credits**

✓ **This class will have a double period once per week**

Honors Chemistry is a standards based course which incorporates the Massachusetts Curriculum for chemistry. The course affords students extensive opportunities to study the properties of matter, atomic structure and periodicity, chemical bonding, chemical reactions, the gas laws, solutions, acids and bases, equilibrium and kinetics, and electro- and thermo-chemistry. Students should have the mathematical skills necessary to deal with the quantitative measurements made in lab

### **15302 COLLEGE CHEMISTRY**

**1.2 Credits**

✓ **This class will have a double period once per week**

College Chemistry is a standards based course incorporates the Massachusetts Curriculum Frameworks for chemistry. This overview of chemistry includes the properties of matter, atomic structure and periodicity, chemical bonding, chemical reactions, the gas laws, solutions, acids and bases, and equilibrium, and thermo-chemistry.

### **15401 HONORS PHYSICS**

**1.2 Credits**

✓ **This class will have a double period once per week**

Honors Physics is a standards based course which incorporates the Massachusetts Curriculum Frameworks for physics. It is an algebra-based-course covering motion, dynamics, work-energy-momentum, heat, wave motion, and electromagnetism. In addition to problem solving, students will work in groups in the laboratory and in preparation of multimedia presentations.

*Prerequisites : None. However, it is recommended that students receive a "C" or better in Honors Algebra I.*

### **15402 COLLEGE PHYSICS 1.2 Credits**

✓ **This class will have a double period once per week**

College physics is a standards based course which incorporates the Massachusetts Curriculum Frameworks for physics. It is an algebra-based-course covering linear motion, dynamics, work-energy-momentum, heat, wave motion, and electromagnetism. In addition to problem solving, students will work in groups in the laboratory and in preparation of multimedia presentations.

*Prerequisites: None. However, it is recommended that students receive a "C" or better in Algebra I.*



## **SOCIAL STUDIES**

### **16201 HONORS UNITED STATES HISTORY I**

**1 Credit**

#### **GRADE 9**

United States History I is a required course for all Grade 9 students and must be passed for graduation. This course includes the History of the United States from 1763 to 1865. Based on the Massachusetts History and Social Science Curriculum Framework Standards U.S. I.1-41, topics include the American Revolution, the Constitution, westward expansion, sectional conflict, the Civil War, and the consequences of the Civil War. Honors level courses are designed for students seeking a high level of academic rigor with an emphasis on research and independent learning. The pace is quicker and the content goes well beyond the core curriculum. Student competencies should include strong reading and writing skills and the ability to work independently and complete assignments on time.

### **16202 UNITED STATES HISTORY I:COLLEGE PREP**

**1 Credit**

#### **GRADE 9**

United States History I is a required course for all Grade 9 students and must be passed for graduation. This course includes the History of the United States from 1763 to 1865. Based on the Massachusetts History and Social Science Curriculum Framework Standards U.S. I.1-41, topics include the American Revolution, the Constitution, westward expansion, sectional conflict, the Civil War, and Reconstruction.

College Prep level courses are intended to prepare students for college. Students will read and write in history and practice basic research techniques. The ability to work independently and to complete outside assignments on time are critical to success.

## **WORLD LANGUAGES**

### **11101 HONORS FRENCH I**

**1 Credit**

Honors French I is offered to highly motivated students who have shown a high level of interest and achievement. It is conducted on an accelerated basis in order to insure that students are prepared to continue their studies in honors French II. This course introduces students to the working vocabulary and rules of pronunciation and basic grammar of the French language. Students will be introduced to the diverse cultures of the French-speaking world as they learn to communicate both orally and in writing to understand and produce simple expressions. Students will also become familiar with the language lab and its resources.

### **11102 FRENCH I**

**1 Credit**

French I introduces students to the working vocabulary and rules of pronunciation and basic grammar of the French language. Students will be introduced to the diverse cultures of the French-speaking world as they learn to communicate both orally and in writing to understand and produce simple expressions. Students will also become familiar with the language lab and its resources.

### **11201 HONORS PORTUGUESE I**

**1 Credit**

Honors Portuguese I is offered to highly motivated students who have shown a high level of interest and achievement. It is conducted on an accelerated basis in order to insure that students are prepared to continue their studies in honors Portuguese II. This course introduces students to the working vocabulary and rules of pronunciation and basic grammar of the Portuguese language. Students will be introduced to the diverse cultures of the Portuguese-speaking world as they learn to communicate both orally and in writing to understand and produce simple expressions. Students will also become familiar with the language lab and its resources.

### **11202 PORTUGUESE I**

**1 Credit**

Portuguese I introduces students to the working vocabulary and rules of pronunciation and basic grammar of the Portuguese language. Students will be introduced to the diverse cultures of the Portuguese-speaking world as they learn to communicate both orally and in writing to understand and produce simple expressions. Students will also become familiar with the language lab and its resources.

## **WORLD LANGUAGES (cont.)**

### **11211 HONORS PORTUGUESE II**

**1 Credit**

Honors Portuguese II is offered to highly motivated students who have shown a high level of interest and achievement in Portuguese I. In this course students will expand their ability in reading, speaking, writing and listening. They will further develop their vocabulary and obtain simple grammatical structures needed for meaningful communication. Students will continue to utilize the language lab to further develop their technology skills, communicate in Portuguese, and further explore the cultures of the Portuguese-speaking world.

### **11212 PORTUGUESE II**

**1 Credit**

In Portuguese II students expand their ability in reading, speaking, writing and listening. They will further develop their vocabulary and obtain simple grammatical structures needed for meaningful communication. Students will continue to utilize the language lab to further develop their technology skills, communicate in Portuguese, and further explore the cultures of the Portuguese-speaking world. Success in this course fulfills the minimum two- year requirement for students.

### **11292 PORTUGUESE I FOR HERITAGE LANGUAGE LEARNERS**

**1 Credit**

This course is designed for students who speak and hear Portuguese at home and have basic reading and writing skills. This course will enable students of Portuguese Speaking countries to improve their academic and literacy skills in Portuguese. Besides strengthening their language skills, it is designed to develop and enhance a cultural awareness for their own culture as well as the various cultures of the Portuguese Speaking World. Students will also be introduced to the various genres of Portuguese Literature.

### **11301 HONORS SPANISH I**

**1 Credit**

Honors Spanish I is offered to highly motivated students who have shown a high level of interest and achievement. It is conducted on an accelerated basis in order to insure that students are prepared to continue their studies in honors Spanish II. This course introduces students to the working vocabulary and rules of pronunciation and basic grammar of the Spanish language. Students will be introduced to the diverse cultures of the Spanish-speaking world as they learn to communicate both orally and in writing to understand and produce simple expressions. Students will also become familiar with the language lab and its resources.

### **11302 SPANISH I**

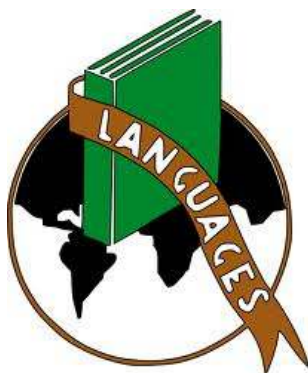
**1 Credit**

Spanish I introduces students to the working vocabulary and rules of pronunciation and basic grammar of the Spanish language. Students will be introduced to the diverse cultures of the Spanish-speaking world as they learn to communicate both orally and in writing to understand and produce simple expressions. Students will also become familiar with the language lab and its resources.

### **11311 HONORS SPANISH II**

**1 Credit**

Honors Spanish II is offered to highly motivated students who have shown a high level of interest and achievement in Spanish I. In this course students will expand their ability in reading, speaking, writing and listening. They will further develop their vocabulary and obtain simple grammatical structures needed for meaningful communication. Students will continue to utilize the language lab to further develop their technology skills, communicate in Spanish, and further explore the cultures of the Spanish-speaking world.



## **WORLD LANGUAGES (cont.)**

### **11312 SPANISH II**

**1 Credit**

In Spanish II students expand their ability in reading, speaking, writing and listening. They will further develop their vocabulary and obtain simple grammatical structures needed for meaningful communication. Students will continue to utilize the language lab to further develop their technology skills, communicate in Spanish, and further explore the cultures of the Hispanic world. Success in this course fulfills the minimum two- year requirement for students.

### **11382 SPANISH I FOR HERITAGE LANGUAGE LEARNERS**

**1 Credit**

This course is designed for students who speak and hear Spanish at home and have basic reading and writing skills. This course will enable students of Spanish Speaking countries to improve their academic and literacy skills in Spanish. Besides strengthening their language skills, it is designed to develop and enhance a cultural awareness for their own culture as well as the various cultures of the Spanish Speaking World. Students will also be introduced to the various genres of Spanish Literature.

### **11602 KHMER I**

**1 Credit**

Khmer I introduces students to the working vocabulary and rules of pronunciation and basic grammar of the Cambodian language. Students will be introduced to the Cambodian culture as they learn to communicate both orally and in writing to understand and produce simple expressions. Students will also become familiar with the language lab and its resources.

### **11401 HONORS LATIN I**

**1 Credit**

Honors Latin I is offered to those students who have shown a high level of interest, motivation, and achievement. It will be conducted on an accelerated basis and will introduce students to the Latin language with an emphasis on vocabulary, sentence patterns, grammar, and syntax. Emphasis is on reading and writing with a less emphasized oral component. Roman culture, history, geography, and mythology are introduced. There is also a continual, comparative connection with English and other Romance and Classical languages

### **11501 HONORS GERMAN I**

**1 Credit**

Honors German I is offered to highly motivated students who have shown a high level of interest and achievement. This course introduces students to the working vocabulary and rules of pronunciation and basic grammar of the German language. Students will be introduced to the German culture as they learn to communicate both orally and in writing to understand and produce simple expressions. Students will also become familiar with the language lab and its resources.

### **11502 GERMAN I**

**1 Credit**

German I introduces students to the working vocabulary and rules of pronunciation and basic grammar of the German language. Students will be introduced to the German culture as they learn to communicate both orally and in writing to understand and produce simple expressions. Students will also become familiar with the language lab and its resources.

### **11392 INVITATION TO LANGUAGES AND CULTURES**

**1 Credit**

This course is designed to give students their first exposure to World Languages. Students will be exposed to French, German, Portuguese and Spanish. Students will be exposed to the Culture and language of these languages through theme based lessons. The goal of this course is to instill an understanding and appreciation for all world cultures and languages. This is a first year course primarily for freshmen and sophomores who plan to continue their studies in a 2-year college, technical school or immediately enter their career path.

## **PHYSICAL EDUCATION**

### **57024 PHYSICAL EDUCATION 1 -WELLNESS PROGRAM**

**.4 Credits**

**Class meets for one semester, 4 days per week-Honors Biology students will meet 3 times per week.**

This course is required for all freshmen. Students will follow a wellness cycle which will consist of 12 classes per activity. The cycle includes aerobic activity, team sports, anaerobic activity, individual sports and outdoor pursuits. Students will also be required to complete an assessment at the end of each cycle which will be 20% of their final grade. The remaining 80% of the grade will be based on active participation, attendance and attaining a level of proficiency that is proportional to the students' individual potential.



**57394 HEALTH 1**

**.4 Credits**

Class meets for one semester, 4 days per week-Honors Biology students will meet 4 times per week.

This course is required for all freshmen and is designed to provide basic health concepts necessary for making good decisions to enhance optimal health. Topics discussed will include reproductive health interpersonal relationships, disease prevention, STD's as well as addiction and alcohol.

**DURFEE DISCOVERY**

**02100 Durfee Discovery**

**Freshmen, first semester only\***

**.5 Credits**

This course will introduce students to the many educational opportunities available at Durfee. Students will receive instruction in career pathways and exploration including interest and ability assessment enabling them to make wise and informed decisions regarding their future. Students will be instructed in the various technology services, procedures and applications at Durfee including Media Center Research. This course will enable students to make informed decisions concerning future electives at Durfee. All students will complete a rotation in the following courses:

***DURFEE DISCOVERY ELECTIVE OFFERINGS***

<b>Visual Design</b>	<b>Culinary Arts</b>	<b>Health Services</b>	<b>Hairstyling</b>
<b>Early Education</b>	<b>Engineering</b>	<b>Electronics</b>	<b>Radio &amp; TV Broadcasting</b>
<b>Info. Tech Web</b>	<b>Info. Tech Apps</b>	<b>Biotechnology</b>	<b>General Shop</b>
<b>Popular Music</b>	<b>Art</b>	<b>Drumline</b>	<b>Piano</b>
<b>Guitar/Song Writing</b>	<b>Mixed Chorus</b>	<b>Pottery</b>	<b>Theatre</b>
<b>U.S. Naval Jr.ROTC</b>	<b>Career Planning</b>	<b>Environmental Engineering</b>	

**DURFEE DISCOVERY ALTERNATIVES**

Students who have participated in a middle school music program are encouraged to continue their studies at Durfee. Students are able to select from the following course offerings in lieu of Durfee Discovery.

**56214 Concert/Parade Band (5 Day) YR 1cr.**

**56334 Band/Orchestra (5 Day) YR 1cr.**

**56314 Orchestra/String Orchestra (5 Day) YR 1cr.**

Students also have the option to enroll in the U.S. Naval Junior ROTC Program. This course will also take the place of the Durfee Discovery exploratory program.

**75114 Naval Science I YR 1cr.**

***NOTE:*** If students also aspire to enroll in one of the CVTE Programs (Graphic Design, Hairstyling, Radio & Television Broadcasting {formally FREDTV}, Early Ed. & Child Care, Nursing Assistant, or Culinary Arts) they are **REQUIRED** to go through the Durfee Discovery exploratory to be granted admission into the program sophomore year.

**ELL COURSES**

Students who qualify for ELL services will be academically placed by proficiency level. Students should view the full program of offerings on pages 44-47 in the complete 2011-2012 Durfee Program on Studies.

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**WELCOMING ALL STUDENTS TO BE A PART OF  
DURFEE PRIDE!!**