

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

## **English**

**ENGA1114 American Literature 1 5.00 Yr**

**Core 9th Grade Course**

This full-year English course introduces students to the in-depth study of literature in all the major genres: the novel, short story, drama and poetry. Expository writing tasks emphasizing comparison/contrast, persuasion, and cause/effect topics are literature related and prepare students for the eleventh grade High School Proficiency Assessment (HSPA). In addition to literary analysis and writing, students develop verbal skills, listening skills, technology skills, and research techniques. Lessons in vocabulary, grammar, and mechanics are integrated throughout the curriculum. Titles are selected from among various multicultural titles. Works by Shakespeare are included.

**ENGA1312 American Literature 1 Honors 5.00 Yr**

**Core 9th Grade Honors Course**

Reading Comprehension and Writing Examination / Recommendation

This course is a literary exploration of the theme, The American Identity. Course works are studied in conjunction with the United States History 1 curriculum within their historical context with attention to their literary components. While the short story and novel are the primary resources, plays, essays and poems are covered as well. These texts and their use are designed to develop students' listening, speaking, reading, critical thinking, writing and research skills.

**ENGA2114 American Literature 2 5.00 Yr**

**Core 10th Grade Course**

Completion of American Literature 1

This course provides students the opportunity to explore themes in American literature in all genres: short stories, novels, plays and poetry. Students read, discuss and write about the American Dream, the immigrant experience in the United States, the American Family, Puritanism and coming of age in America. Students maintain daily writing journals. Students prepare writing portfolios for exhibition. Writing is taught through the five steps of the writing process. Students compose expository, narrative and creative pieces, and prepare for standardized tests including the HSPA and the SAT. Vocabulary and language usage are emphasized. Students learn research skills culminating in the writing of a term paper.

**ENGA2312 American Literature 2 Honors 5.00 Yr**

**Core 10th Grade Honors Course**

Honors American Literature 1 or Reading Comprehension and Writing Examination / Recommendation

This is the second of a two-year study of American literature that explores the theme, The American Character in Conflict. The main goal of the course is to develop students'

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

understanding of the influences upon and varied expressions of the American character in the changing currents of the 20th century through their study of literature. Works include short stories, novels, plays, essays and poems designed to help students develop their listening, speaking, reading, thinking, writing and research skills.

**ENGA3114 World Literature 1 5.00 Yr**  
**Core 11th Grade Course**

Successful Completion of American Literature 2

This course has three main goals: give the student a multicultural perspective in literature, prepare him/her for success on the HSPA and prepare him/her for the PSAT/SAT.

Course work is organized around several themes: the hero, family and tradition, coming of age and love. Students maintain reading response journals, write expository essays and complete a portfolio of written work. In addition to reading and writing, the study of vocabulary and grammar are integrated throughout the curriculum. Literature titles are selected from among writers of diverse cultures.

**ENGA3113 World Literature 1 Dual Enrollment Honors 5.00 Yr**  
**Core 11th Grade DE (H) Course**

Successful Completion of American Literature 2 and recommendation

World Literature 1 Dual Enrollment Honor is a World Literature survey beginning with Classical Literature and ending with contemporary short stories, poetry, drama, nonfiction and novels. This course is designed to emphasize drama and poetry and to reinforce literary skills through the study of short stories and novels. Particular attention is paid to the development of writing skills by requiring students explore and express themselves through different types of writing. Students are expected to be critical readers. Analysis of literature goes well beyond simple comprehension and literal interpretation. Students across the campus can take this course for their junior year English requirement. This course is fully articulated with the Freshman Composition I course requirements.

**ENGA3312 World Literature 1 Honors 5.00 Yr**  
**Core 11th Grade Honors Course**

Honors American Literature 2 or Reading Comprehension and Writing Examination / Recommendation

This course is designed to give students an understanding of the central literary pieces from the Ancient World through the Renaissance. Particular attention is paid to the social, economic, cultural and political forces that contributed to the creation of those texts. Although the emphasis is on Western Literature, students also are exposed to selections and samples of literature from around the globe. Students continue to develop their critical reading skills and hone their writing skills with particular attention to formal essay writing and academic writing.

**ENGA4114 World Literature 2 5.00 Yr**  
**Core 12th Grade Course**

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

Completion of World Literature I

In World Literature 2, students develop an understanding of British and European literature through an analysis of literary works thematically arranged. This course is a comprehensive, critical analysis of the major literary movements from the High Renaissance to the Modern Age. Connecting literary works to their historical contexts from a global perspective, students develop interpretations of literature in light of our contemporary society, as well as archetypal themes that transcend time. Writing assignments and literature are sophisticated and students are required to write in different modalities. Students are expected to be critical readers. Analysis of literature goes well beyond simple comprehension and literal interpretation. Students will be able to evaluate literature through the use of literary terms and concepts and writing papers is considered a natural extension of such analysis.

**ENGA4113 World Literature 2 Dual Enrollment Honors 5.00 Yr**  
**Core 12th Grade DE (H) Course**

Completion of World Literature I and recommendation

World Literature 2 Dual Enrollment Honors course explores the essentials of British and World Literature. The course emphasizes drama and poetry and reinforces literary skills through the study of short stories and novels. Writing assignments and literature are sophisticated and students are required to write in different modalities. Students are expected to be critical readers. Analysis of literature goes well beyond simple comprehension and literal interpretation. Students will be able to evaluate literature through the use of literary terms and concepts and writing papers is considered a natural extension of such analysis. Students across the campus can take this course for their senior year English requirement. This course is fully articulated with the Freshman Composition II course requirements.

**ENGA4312 World Literature 2 Honors 5.00 Yr**  
**Core 12th Grade Honors Course**

Honors World Literature I or Reading Comprehension and Writing Examination / Recommendation

In Honors World Literature 2, students develop an understanding of European literature through and analysis of literary works chronologically arranged. This course is a comprehensive, critical analysis of the major literary movements from the High Renaissance to the Modern Age. Connecting literary works to their historical contexts from a global perspective, students develop interpretations of literature in light of our contemporary society, as well as archetypal themes that transcend time. Writing assignments and literature are sophisticated and based on critical theories; students are required to write in different modalities. Students are expected to be critical readers. Analysis of literature goes well beyond simple comprehension and literal interpretation.

**ENGA1311 Pre-AP Dual Enrollment World Literature 1 Honors 5.00 Yr**

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

This course is equivalent of a Freshman Composition I course on a college level. Students will have extensive practice in critical reading, thinking and academic writing. This course emphasizes the writing process and concentrates on the organization and development of ideas in written form. Correct language usage, research skills, and document presentation are covered. Particular attention is given to writing about the texts students have read and the integration of primary and secondary sources into their writing for the purpose of supporting a claim. Students who complete this course will not only receive credit towards their high school graduation requirement, but also 3 college credits with Bergen Community College Advance Placement credit contingent upon taking the AP exam their senior year in ELA and Composition.

**ENGA3224 AP Dual Enrollment World Literature 5.00 Yr**

This course is a survey of World History from pre-historic to contemporary times. Students will learn about the socio-economic political and ideological conditions of various time periods as they study historical events and connections between various world cultures throughout the period studied in the course. Students who complete this course will not only receive credit towards their high school graduation requirement, but also 6 college credits with Bergen Community College Advance Placement credit contingent upon taking the AP exam, giving them a chance to preview a college level experience.

**ENGA4311 AP English Literature 5.00 Yr**

**Elective 12th Grade AP Course**

World Literature I Honors (Placement Assignment, Teacher Recommendation)

AP English is a college-level course designed to prepare students for writing in college as well as taking the required AP English Literature Exam in May. The reading selections and writing assignments are rich and challenging; the pace of the class is intense.

Students concentrate on analyzing literature by doing “close readings” and on developing other skills necessary for the exam. In addition, there are projects and presentations to demonstrate an understanding of critical theories of literature.

**ENGA1116 ESL 1 5.00 Yr**

This course addresses the needs of new entrants to the United States whose native language is not English. Students are assisted in adapting to their new environment. Vocabulary and basic language structure are presented via real-life situations. Students are expected to demonstrate functional knowledge of the following verb tenses: present, past, future and present continuous. Students are expected to complete daily class assignments, do nightly homework assignments and pass teacher-generated tests. Among the materials used in this course are a grammar text, a workbook and elementary readers.

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

**ENGA1126 ESL 1 Lab 5.00 Yr**

This course addresses the needs of students whose first language is not English. The focus of the course is reading and writing. Students express themselves at their own level of proficiency. Emphasis is placed on listening and speaking skills and gradually shifts as the students' mastery of the language increases. Students are expected to complete daily class assignments, do nightly homework assignments and pass teacher-generated tests. Among the materials used in this course are a grammar text, a workbook and elementary readers.

**ENGA2116 ESL 2 5.00 Yr**

This course addresses the needs of the intermediate ESL students. Students learn about North American culture to better understand our community. Vocabulary and language structures are presented via real-life situations. Students are expected to demonstrate a working knowledge of regular and irregular verbs, modals, comparative and superlative adjectives, perfect tenses, and idioms in everyday language. Students are expected to complete daily class assignments, do nightly homework assignments and pass teacher-generated tests. Among the materials used in this course are a grammar text, a workbook and teacher-generated materials.

**ENGA2126 ESL 2 Lab 5.00 Yr**

This course addresses the needs of ESL students in listening, speaking, reading and writing. Students express themselves at their level of proficiency. Students at this level begin to read simplified literature in the English language. Compositions of narration, description and exposition are written. Students are expected to complete daily class assignments, do nightly homework assignments and pass teacher-generated tests. Among the materials used in this course are a grammar text, a workbook and teacher-generated materials. Heiman Intermediate readers are used stressing literary works such as "The Grapes of Wrath."

**ENGA3116 ESL 3 5.00 Yr**

This course addresses the needs of advanced ESL students whose native language is not American English. The course emphasizes computer usage aligned to the High School Proficiency Assessment curriculum. Students are expected to show competency in the English language enabling them to function well in mainstream high school courses and the community. Vocabulary and language structures are presented via real-life situations. Students are expected to complete daily class assignments, do nightly homework assignments and pass teacher-generated tests. Among the materials used in this course are a grammar text, a workbook and teacher-generated materials.

**ENGA1110 Read180 5.00 Yr**

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

This is a comprehensive reading intervention program designed to meet the needs of students in high school whose reading achievement is not at a proficient level. The program, which is researched based, scaffolds students in their understanding of the reading process and strengthens gaps in their foundational skills. READ 180 addresses these gaps on individual needs through instructional software, high-interest literature, and direct instruction in reading skills. The course also encompasses reading of New York Times articles that relate to the Read 180 reading by strengthening real world connections. There is also journal writing where students reflect upon and improve their critical thinking by writing in response to quotes.

**ENGA2110 Read180 Level 2 5.00 Yr**

This course is a continuation of Read 180 Level 1. When Read 180 Level 1 is complete, students take a final assessment. If they show further need of the structured program for comprehensive reading, a student will continue in Read 180 Level 2. As in Level 1, the program scaffolds students in their understanding of the reading process and strengthens gaps in their foundational skills. Read 180 2 addresses these gaps on individual needs through instructional software, high-interest literature, and direct instruction in reading skills. The course also encompasses reading of New York Times articles that relate to the Read 180 reading by strengthening real world connections. There is also journal writing where students reflect upon and improve their critical thinking by writing in response to quotes.

**ENGA5110 Sys44 5.00 Yr**

*System 44* Next Generation is the new foundational reading program for challenged readers in Grades 3–12+. *System 44* Next Generation is proven to help students master the foundational reading skills required for success with the Common Core through explicit instruction in comprehension and writing and a personalized learning progression driven by technology. *System 44* Next Generation™ is designed for daily use by a small class (10-12 students), with students rotating between the Software and Small-Group Differentiated instruction or modeled & independent reading. The program can be used effectively during a regular class period, in a resource room, and in after- and summer-school programs. Students alternate between small-group differentiation and modeled/independent reading. The *System 44* classroom has been designed to engage your students. When students walk into the room, they may first notice technology, but before long, students will learn that this is a classroom where they will find success in reading, writing, and thinking.

## **Five-day Electives**

**ENGQ5111 African-American Literature 2.50 S**  
**Elective**

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

This course examines the African-American literary tradition from a variety of perspectives and in dynamic ways. The class begins with a study of slave narratives of the 18th and 19th centuries and then moves to post-slavery writing with special emphasis on Booker T. Washington. Students analyze the works of Harlem Renaissance writers such as Zora Neale Hurston, W.E.B. Du Bois and Langston Hughes. Later works from writers such as Richard Wright, Ralph Ellison, Alice Walker and Toni Morrison are also analyzed. The course consists of close reading, discussion and project preparation.

**ENGQ4114 PARCC Language Arts State Test Prep 5.00 Yr**  
**Elective**

This course provides support for students who showed insufficient growth in the ELA Section of the previous year's standardized assessments. The content of the course is aligned to the Common Core standards for English. Students will focus on completing this state requirement for graduation.

**ENGQ4116 PARCC Language Arts (Bil) 5.00 Yr**  
**Elective**

This course provides support for students who showed insufficient growth in the ELA Section of the previous year's standardized assessments. The content of the course is aligned to the Common Core standards for English. Students will focus on completing this state requirement for graduation. Bilingual support is offered to emerging language learners.

**ENGQ5113 Creative Writing 2.50 S**  
**Elective**

This course exposes students to the techniques a writer uses to create poems, short stories, plays, and essays. Writing is required daily. Students explore each step of the writing process in depth and revise extensively. Drafts are critiqued in large and small group settings. Readings include drama, journalism, poetry and fiction by contemporary writers. In these readings, students encounter a variety of styles, which provide models and help students to develop their own personal ways of writing in creative forms.

**ENGQ5114 Film and Literature 2.50 S**  
**Elective**

This course offers an opportunity to study selected stories, plays and novels and their film adaptations. Critical analyses of the films, and an examination of the challenges of adapting the written word to film, enable students to appreciate the effect of film on modern society and life. Students comprehend how converting text to celluloid has made great literary works more accessible to the general public. Furthermore, this course introduces students to literary works that are not covered in traditional English classes.

**ENGQ3114 PARCC State Prep Verbal 2.50 S**

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

**Elective**

This mandatory course for eleventh grade students assists pupils as they prepare for the PARCC Assessment. Students sharpen skills aligned to the Common Core in English Language Arts (ELA). Students practice these skills through reading and writing. Students are required to take the PARCC in order to graduate.

**ENGQ6318 Journalism 2.50 S**

**Elective**

Journalism introduces students to the exciting world of print media. Students learn about the history of mass media and its effect on society, but more importantly, they learn practical journalism: how to gather information, interview effectively and write professional, straight news stories. The course includes a study and discussion of journalism, including such issues as ethics, sexism, racism, objectivity, management, teamwork, advertising and design. Students develop an understanding of the concept of news as well as basic news identification and news values. This course is designed for students to expand their interest in print communications and is perfect (but not necessary) for students who wish to work on the high school newspaper and yearbook.

**ENGQ5116 Media Literacy 2.50 S**

**Elective**

**ENGQ5115 Public Speaking 2.50 S**

**Elective**

Public Speaking is designed to offer the students a strong command of the skills of oral expression, listening and an advanced study in the major speech disciplines. The course is intended to help students clearly convey a message which can stimulate the minds of the audience and prepare students for leadership in their business and social endeavors.

**Two-day Electives**

**ENGZ5315 Best Sellers 1.00 S**

**Elective**

This course is devoted to popular works which have made the Best Sellers list. Student will read and discuss a variety of Best Sellers books.

**ENGZ9314 Career Communications: Technical Writing 1.00 S**

**Elective**

In this course students differentiate academic and technical writing; identify the components of technical writing as found in abstracts, summaries, mechanical descriptions, memos, letters and reports; and use that information to practice technical writing appropriate to their career focus area.

**ENGZ5316 Creative Expression 1.00 S**



**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

**Elective**

This creative writing course focuses on the development of the student's individual voice within the context of writing fiction, poetry and drama. Students study various writing techniques, spend class time brainstorming, and work on creative writing projects. Students write their own pieces, share them with classmates, and revise their work and conference with the teacher.

**ENGZ6317 Drama: Improvisation 1.00 S**

**Elective**

In this course, students acquire knowledge and skills that contribute to an aesthetic awareness of theater. The purpose of this course is to engage students in random improvisations and longer, planned presentations. The initial activities in the class are intended to build participants' skills with warm-ups, modeling, and improvisations to provide practice in the basics of acting. Students will refine their basic improvisation skills of characterization and mime, practice storytelling, build confidence and rely on teamwork to pull off more challenging improvisation games. The skills learned later inform the use of planned improvisations in the study of a piece of literature and in the writing and presentation of character dialogues.

**ENGZ6311 Fiction Writing 1.00 S**

**Elective**

Fiction Writing focuses on the development of the student's individual voice within the context of fiction. Students study various fiction writing techniques including creation of character, plot and setting; the use of point of view; effective use of dialogue; and use of descriptive imagery, metaphor and symbolism. Students read samples of stories from published writers as models, but the majority of the class time is devoted to writing, conferencing and revising original stories for publication.

**ENGZ6312 Film and Literature 1 1.00 S**

**Elective**

This course offers an opportunity to study selected stories, plays and novels and their film adaptations. Critical analyses of the films, and an examination of the challenges of adapting the written word to film, enable students to appreciate the effect of film on modern society and life. Students comprehend how converting text to celluloid has made great literary works more accessible to the general public. Furthermore, this course introduces students to literary works that are not covered in traditional English classes.

**ENGZ6313 Film and Literature 2 1.00 S**

**Elective**

Film & Literature 2 examines how dysfunctional characters are created in film and how they impact a reader's perception of theme in a movie. The student learns to evaluate characters and to analyze the director's interpretation of them. Works studied include *The Color Purple*, *The English Patient*, and *Angels in America*.

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

**ENGZ6315 Gothic Literature 1.00 S**

**Elective**

In Gothic Literature students analyze classic poems, tales and novels in the Gothic tradition with an aim to understanding the conventions, techniques and traditional themes of the genre. Students analyze how these works show the tenuous boundaries of the self and examine how early Gothic works have influenced modern Gothic novels and films.

**ENGZ3114 PARCC ELA Prep for the Academies 2.00 Yr**

**Elective**

This course helps students understand the reading strategies they already use and helps them develop new strategies to deal with increasingly difficult, college-level literary and informational text. It is designed specifically to enhance the skills that are tested on the HSPA Language Arts exam. These include recognition of text organization, central idea, supporting details, literary elements, and author's purpose.

**ENGZ3112 PARCC ELA for the Academies 1.00 S**

**Elective**

**ENGZ5214 AP Dual Enrollment World Literature Prep 2.50 Yr**

This course provides supplemental content to further support the material learned in AP Dual Enrollment World Literature. Students who complete this course will not only receive credit towards their high school graduation requirement, but **also 3???** college credits with Bergen Community College Advance Placement credit contingent upon taking the AP World Lit. exam, giving them a chance to preview a college level experience.

**ENGZ9311 Intro to Stage Make-up 1.00 S**

**Elective**

This course studies the aesthetics, materials and procedures of stage makeup involving: corrective and aging techniques, the creation of animals and monsters, and the construction of beards and moustaches. Students will learn the basics starting with drawing a face plot to techniques and materials required to create a transformation into a character.

**ENGZ9313 Law, Literature and Society 1.00 S**

**Elective**

In this course students examine the nature of law and social justice through the lens of literature. Students read works such as Antigone, A Lesson Before Dying, The Trial and Chronicle of a Death Foretold.

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

ENGZ9315 Media and the Environment 1.00 S

Elective

This course is a study of environmental and global issues and what can be done to create a sustainable future, along with the media's role in fostering or inhibiting action on these issues. Students examine the concept of bias or slant in newspapers, political writing and TV/Internet newscasts. They complete an in-depth analysis of a major environmental issue, its coverage by left and right wing news groups, and actions that have/have not been taken to address the problem while pinpointing the global ramifications of the issue.

ENGZ7313 Minorities Literature & Film 1.00 S

Elective

This class will give students an understanding of the role of minorities in film, beginning in the American Hollywood era of cinema. Students will explore how minorities fought for equality on and off the screen through the study of famous film characters, actors and directors. The class will focus on African-American, Latino and female characters, and students will have the opportunity to give their input as to other areas of focus.

ENGZ7314 Nature and Literature 1.00 S

Elective

Learn about nature and literature. Discover the journeys through nature and emotional journeys by reading various books such as: A Walk in the Woods, Into the Wild, and The Art of Zen and Motorcycle Maintenance. Students will read a variety of works from the following authors: Jack Kerouac, Woody Allen, and Robert Pirsig.

ENGZ7315 Newswriting Advanced 1.00 S

Elective

The course focuses on the basics and development of sophisticated journalistic technique. Students learn the requirements and the proper organization of feature stories, sports stories, and editorials through detailed exercises that are followed by reporter's assignments. Students are expected to produce material suitable for publication in the school newspaper.

ENGZ7316 Newswriting Beginning 1.00 S

Elective

This course teaches students the basic techniques of writing for publication. Emphasis is on writing as the direct result of careful planning, interviewing, in-depth investigation, competent reporting and objective editorial analysis. Attention is also given to the issues of journalistic responsibility, ethics, libel, copyright law, and restrictions on the student press.

ENGZ5317 Poetry Writing 1.00 S

Elective

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

The focus of this elective is the development of the student's individual voice within the context of poetry. Students study various creative writing techniques encompassing the effective use of figurative language including metaphor, personification, symbolism and imagery, and the effective use of musical devices and various poetic styles and forms such as sonnet, villanelle, free verse and imagism. Revision, portfolio development, and publishing are emphasized.

ENGZ7318 Science Fiction Literature 1.00 S  
Elective

In its most basic definition, science fiction writing deals with the question, "What if?" Through reading short stories and novels and watching films of this genre, students begin to consider a variety of possibilities – looking at the expected and the unexpected, predicting outcomes, and anticipating changes to the world and society with which they are familiar. Students discuss reality, perception, cause and effect, and chaos theory in relation to readings and films.

ENGZ8311 Shakespeare: Henry V 1.00 S  
Elective

This course is an in-depth study of William Shakespeare's play, The Life of Henry V. Students learn about the elements of drama and the history of the Elizabethan Theater. Students use this knowledge as they read the play, view different film versions of the play, analyze characters, plot, and themes, and discover Shakespearean influences on modern culture.

ENGZ8312 Shakespeare:The Taming of the Shrew 1.00 S  
Elective

This course is an in-depth study of William Shakespeare's play, The Taming of the Shrew. Students read the play, view several different film interpretations, analyze character, plot, and themes, and discover Shakespearean influences in modern culture.

ENGZ8313 Short Novel 1.00 S  
Elective

This course involves the reading, analysis, discussion and critiquing of fiction. Using the vehicle of the short novel, students will build a comprehensive vocabulary of literary terminology while developing the ability to intelligently dissect fiction as to its elements, themes and structure. In addition to traditional essays, students will write creative responses to the novels studied.

ENGZ8315 Whale of a Tale: Nautical Fiction 1.00 S  
Elective

Since the beginning of literature (Enuma Elish, Noah Story, The Odyssey), human kind has been fascinated by the sea. Many of the great writes of the English language have written sea stories. This will be an introduction of the original fantasy/science fiction

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

genre with works of Home, Poe, London, Conrad, Crane, Dana up to more current works such as Forester and O'Brian.

ENGZ8318 Women's Studies: Senior Seminar 1.00 S  
Elective

Seniors only or juniors by permission of instructor.

The course takes an interdisciplinary approach. That is, students read literature by women, writings about women, and the history that creates the two. Students read excerpts from many sources to help develop their awareness of the historical, political and cultural influences on women's lives and their creations. Authors studied include Sappho, Margery Kempe, Mary Wollstonecraft, Charlotte Perkins Gilman, Kate Chopin, Margaret Sanger, Virginia Woolf, and Simone de Beauvoir.

## **Math**

**MTHA1124 Algebra 1A 5.00 Yr**

This course is designed to continue student success in completing their high school experience. There will be a major focus on application numerical operations, problem solving and overall number sense that extend beyond high school. Students will explore linear functions, linear and quadratic equations, inequalities, polynomial expressions, roots of polynomials, and systems of linear equations through algebraic and graphical strategies. Students will explore measurement in various forms, such as, linear, monetary and weight using the American and Metric systems. This course meets or exceeds the Common Core State Standards with a focus on number and quantity, algebra and modeling.

**MTHA1110 Math180 5.00 Yr**

### **Remediation**

Recommendation

*MATH 180* is a comprehensive system of curriculum, instruction, assessment, and professional development designed to equip students with the knowledge, reasoning, and confidence to thrive in algebra. It is a **revolutionary new math intervention program** designed to address the needs of students and their teachers equally. Its groundbreaking instructional design uses **adaptive software** to provide students with personalized instruction and practice, while equipping teachers with an **ecosystem of support**. *MATH 180* intervention program is designed to meet the rigors of the Common Core and accelerate students to grade level. With a focused and coherent scope and sequence and scaffolded practice that includes Next Generation assessment item types and performance tasks, *MATH 180* ensures that students have an explicit and accelerated path to college and career readiness. The unique instructional design pairs sophisticated

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

technology and smart data to help teachers elicit thinking and build conceptual understanding, while adaptive software accelerates students at their own pace.

**MTHA1114 Algebra 1 5.00 Yr**

**Successful completion of grade 8 mathematics**

This is a full year course. The four basic mathematic operations are applied to integers, monomials and polynomials. These are used to find solutions to linear equations and inequalities in one or two variables as well as verbal problems. The coordinate plane and systems of two linear equations will be emphasized. Students are required to maintain a notebook and complete daily assignments. Students are required to take the N.J. Algebra I End of Course Assessment.

**MTHA1312 Algebra 1 Honors 5.00 Yr**

**Successful Completion of Grade 8 Mathematics and Placement Test/Recommendation**

The four basic mathematic operations are applied to integers, monomials and polynomials. These are used to find solutions to linear equations and inequalities in one or two variables as well as verbal problems. The coordinate plane and systems of two linear equations will be emphasized. Students are required to maintain a notebook and complete daily assignments. Students are required to take the N.J. Algebra I End of Course Assessment. This course is taught at a more rigorous level than the Algebra 1 course.

**MTHA2124 Algebra 1B 5.00 Yr**

**Algebra 1A** (is this course getting eliminated?)

**MTHA2114 Geometry 5.00 Yr**

**Successful completion of Algebra I or Algebra I Honors**

This full year course consists of a rigorous study of modern Euclidean Geometry. Topics will include congruence, similarity, polygons, circles, coordinate geometry and exploration of three space or solid geometry. Calculators will be applied at the discretion of the teacher. A notebook and daily assignments outside the classroom are necessities for success.

**MTHA3126 Geometry (L) (Bil) 5.00 Yr**

**Successful completion of Algebra IA or Algebra IB**

This full year course consists of a rigorous study of modern Euclidean Geometry. Topics will include congruence, similarity, polygons, circles, coordinate geometry and exploration of three space or solid geometry. Calculators will be applied at the discretion of the teacher. A notebook and daily assignments outside the classroom are necessities for success. Bilingual support is offered to emerging language learners

**MTHA2322 Geometry Honors 5.00 Yr**

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

**B or better in Algebra I**

This is a full year honors level course, which presents a logical study of the Geometry of Euclid. Emphasis is placed on such unifying concepts as sets, equivalence relations and congruence relations. Additional study and analyses include: similarity, symmetry and thorough analysis of properties of circles and polygons. The coordinate plane is used as an extension of previously covered concepts. Homework, a notebook and technology are integral parts of the course.

**MTHA3114 Algebra 2 5.00 Yr**

Successful completion of Geometry or Geometry Honors

This course finalizes those topics introduced in Algebra I and includes remaining topics found in a first year college algebra course. Linear and quadratic functions and rational and irrational expressions are expanded upon. New topics include logarithmic and exponential functions and the conic sections. A notebook and completion of outside assignments are necessary to succeed in this course. Calculators are used extensively.

**MTHA3312 Algebra 2 with Trigonometry Honors 5.00 Yr**

**Replaces Analysis 1**

Successful completion of Algebra I and Algebra 2

This is a full-year course designed to provide a strong foundation in pre-calculus concepts. The three areas of concentration in this course are advanced algebraic manipulation, plane geometry including transformational geometry, and the extensive study of advanced functions.

**MTHA3322 Overview of Geometry Honors 2.00 Yr**

**Replaces MTHZ1311**

Freshman Placement Test

This is a full year course which includes the same scope as Geometry Honors, at an accelerated pace, only two days per week. Emphasis is placed on such unifying concepts as sets, equivalence relations and congruence relations. Proof and logical deduction will be emphasized. Additional study and analyses include: similarity, symmetry and thorough analysis of properties of circles and polygons. The coordinate plane is used as an extension of previously covered concepts. Homework, a notebook and technology are integral parts of the course.

**MTHA4124 Probability & Statistics 5.00 Yr**

Successful completion of Algebra 2 or Algebra 2 Honors

This course is designed to provide students with the necessary tools to understand the fundamental concepts that underlie decisions reached by descriptive and/or inferential methods. The course content is closely articulated with, and has an emphasis on, applications drawn from economical, educational, psychological and scientific areas. Major topics include probability and probability distributions. Notebooks, graphing calculators and computers play an important role in this course.

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

**MTHA4311 AP Calculus AB 5.00 Yr**

Pre Calculus, Placement Test, Teacher recommendation

The Advanced Placement Calculus AB Course covers the equivalent amount of material in a one-semester college calculus course. The topics covered include the limits of functions, differential calculus, integrals and differential equations. Students enrolled must take the AP calculus AB Exam in May.

Replaces Analysis 2

**MTHA4312 Pre Calculus Honors 5.00 Yr**

Successful Completion of Algebra 2 or Algebra 2 Trig

This is a full year course, which builds upon the foundations for advanced mathematics provided by the previous courses. This course offers a rigorous treatment of logarithmic functions, trigonometric functions and their graphs, complex number theory, probability theory and statistics theory. The course also provides the student with a combined treatment of functions and transformational geometry. The pacing of this course is comparable to a college level course.

**MTHA5113 Pre Calculus Dual Enrollment Honors 5.00 Yr**

This course is geared toward students whose main goal is to take calculus and/or a higher level math courses in high school in preparation for college. This course will enable students to measure and enhance their ability to understand and to analyze intermediate mathematical concepts as well as to explore applications of exponential and logarithmic functions. In addition to exponential and logarithmic functions, other topics covered in this year long course include the study of polynomial functions, trigonometric and transcendental (exponential and logarithmic) functions, and concepts of discrete mathematics (sequences and series). Students must earn a final grade of B, or above, in order to be qualified for college credits.

**MTHA5114 Pre Calculus 5.00 Yr**

Successful Completion of Algebra 2 or Algebra 2 Trig.

This is a full year course, which builds upon the foundations for advanced mathematics provided by the Analysis I course. This course offers a rigorous treatment of logarithmic functions, trigonometric functions and their graphs, complex number theory, probability theory and statistics theory. The course also provides the student with a combined treatment of functions and transformational geometry.

**MTHA5116 Pre Calculus (Bil) 5.00 Yr**

Successful Completion of Algebra II or Algebra II Trig

This course builds upon the foundations for advanced mathematics provided by the Analysis 1 course. This course offers a rigorous treatment of logarithmic functions, trigonometric functions and their graphs, complex number theory, probability theory and statistics theory. The course also provides the student with a combined treatment of



**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

functions and transformational geometry. Bilingual support is offered to emerging language learners.

**MTHA5311 AP Calculus BC 5.00 Yr**

Pre Calculus, Placement Test, Teacher recommendation

The Advanced Placement Calculus BC Course covers the equivalent amount of material in a two-semester college calculus course. The topics covered include the limits of functions, differential calculus, integrals, and integration by parts, differential equations, infinite series and parametric functions. Students enrolled must take the AP Calculus BC Exam in May.

**MTHA5312 Calculus Honors 5.00 Yr**

Successful Completion of Algebra 2

This course deals with how relations between certain sets (functions) are affected by very small changes in one of their independent variables as they approach zero. The topics covered include limits of functions, differential calculus and integrals with applications to business, science and engineering.

**MTHA7313 Calculus Dual Enrollment Honors 5.00 Yr**

Pre Calculus, Placement Test, Teacher Recommendation

This course consists of a full high school academic year of work and is primarily concerned with developing the students' understanding of the concepts of calculus and providing experience with its methods and applications. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically and verbally. Students will learn about limits, derivatives, integrals, differential equations approximation, applications and modeling and will use the TI-83 Plus graphing calculator to solve many types of calculus problems.

**MTHA6311 AP Statistics 5.00 Yr**

Successful completion of Pre Calculus or Algebra 2 Trigonometry

AP statistics covers probability, analysis, inference and the methods of how to devise a statistical study. Basically, students become proficient in collecting, analyzing and drawing inferences from data. In addition, students become proficient in using a TI 83 graphing calculator for statistical studies. Students enrolled must take the AP Statistics Exam in May.

**MTHA6312 Statistics Honors 5.00 Yr**

Successful completion of Pre Calculus or Algebra 2 Trigonometry

This course covers probability, analysis, inference and the methods of how to devise a statistical study. Basically, students become proficient in collecting, analyzing and drawing inferences from data. In addition, students become proficient in using a TI 83 graphing calculator for statistical studies.

**ENGLEWOOD PUBLIC SCHOOL DISTRICT  
DEPARTMENT OF GUIDANCE & COUNSELING SERVICES  
HIGH SCHOOL COURSE CATALOG  
2015-2016**

**MTHA7312 Plus Mono-variable Calculus Hon 5.00 Yr  
AP Calculus AB**

This course continues with the study of calculus at the college level. It is a continuation of the AP Calculus AB course, which is a prerequisite. Topics covered include integration by parts, infinite series, parametric functions and arc length.

### **Five-day Electives**

**MTHQ4114 PARCC Math 5.00 Yr  
Elective**

This course provides support for students who showed insufficient growth in the ELA Section of the previous year's standardized assessments. The content of the course is aligned to the Common Core standards for English. Students will focus on completing this state requirement for graduation.

**MTHQ4116 PARCC Math (Bil) 5.00 Yr  
Elective**

This course provides support for students who showed insufficient growth in the Math Section of the previous year's standardized assessments. The content of the course is aligned to the Common Core standards for English. Students will focus on completing this state requirement for graduation.

Bilingual support is offered to emerging language learners.

**MTHQ3114 Conquering the PARCC Prep Math 2.50 S  
Elective**

#### **Geometry**

This course is designed to be a one-semester elective to help students prepare for the math portion of the 11th Grade PARCC exam. Emphasis is placed on doing practice problems, familiarizing students with the format of the text, reviewing earlier subjects and learning new material.

### **Two-day Electives**

**MTHZ5311 Math Connections 2.00 Yr  
Elective**

Approval of instructor

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

DMAE students will sharpen their math skills by tutoring selected Janis E. Dismus Middle School students one day each week. The other class day each week will be used for preparation/research of lessons to assure quality lessons for the MS students. Students will be expected to tutor the MS students in 7th and 8th grade level math, including Algebra, and to help the students prepare for the NJ Ask Test. The HS students will also serve as role models and mentor the MS students they are assigned to tutor.

**MTHZ3124 National Math Review 1.00 S**

**Elective**

Algebra 1 Elective

This course is offered to improve performance on the SAT and ACT aptitude and achievement examinations in mathematics. Focus is on changes in the SAT and ACT including the addition of advanced algebraic concepts. The coursework involves work in numbers and operations, algebra, geometry/measurement and statistics/probability.

**MTHZ5313 Problems from NUMBERS 1.00 S**

**Elective**

Algebra 1

This course is based primarily on lesson plans published by Texas Instrument on the website of the NUMB3RS television show. Students are introduced to a broad selection of mathematical topics and applications. None are pursued in great depth, but broad exposure is the intent.

**MTHZ5124 Pre Calculus Honors Dual Enrollment 5.00 Yr**

**Elective**

## Science

**SCIA1114 Biology 5.00 Yr**

Successful completion of grade 8 Science.

Biology is a science that stresses inquiry and depends upon the basic relationship of the physical sciences as well as life science. This course is presented with these ideas in mind. This course begins with a review of recent current events related to Biology. Through these, the relationships between science and technology, as well as ethical issues, are explored. While the presentation of content is a major part of this course, the development of critical thinking skills is considered of paramount importance. Also important are safe practices and the attitude a student displays as he or she learns science and the development of qualities inherent in the practice of science, such as curiosity, skepticism, open-mindedness and honesty when collecting and interpreting findings. In addition to class discussion and cooperative activities and projects, oral presentations of

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

projects are expected for all class members. Students are required to do several research projects during the year.

**SCIA1116 Biology (Bil) 5.00 Yr**

Successful completion of grade 8 Science.

Biology is a science that stresses inquiry and depends upon the basic relationship of the physical sciences as well as life science. This course is presented with these ideas in mind. This course begins with a review of recent current events related to Biology. Through these, the relationships between science and technology, as well as ethical issues, are explored. While the presentation of content is a major part of this course, the development of critical thinking skills is considered of paramount importance. Also important are safe practices and the attitude a student displays as he or she learns science and the development of qualities inherent in the practice of science, such as curiosity, skepticism, open-mindedness and honesty when collecting and interpreting findings. In addition to class discussion and cooperative activities and projects, oral presentations of projects are expected for all class members. Students are required to do several research projects during the year. Bilingual support is offered to emerging language learners.

**SCIA1312 Biology Honors 5.00 Yr**

B or better in grade 8 Science (Placement test required for non-AE students.)

This course focuses on the study of life. Biology is a science that stresses inquiry and depends upon the basic relationships of the physical sciences as well as living things. This course is presented with these ideas in mind. While presentation of the course is a major part of this course, the development of critical thinking skills, is considered of paramount importance. Also important are safe practices, the development of qualities inherent in the practice of science, such as curiosity, skepticism, open-mindedness and honesty when collecting and interpreting findings. All appropriate laboratory exercises are conducted during a weekly lab-class to strengthen student understanding of material covered.

**SCIA2311 AP Biology 6.00 Yr**

Biology, Placement Assignment, Teacher recommendation.

This course may be elected by students in their senior year. The AP Biology course is designed to be the equivalent of a two-semester college introductory biology course usually taken by biology majors during their first year. A prescribed curriculum that prepares students for testing encompasses seven major theses in biology that are all tied together by the unifying concept of evolution. Laboratory exercises and experiments are an integral part of the course and require that the students be able to formulate hypotheses and draw conclusions from their work. Extensive readings on a college level from texts and supplemental materials are undertaken to properly prepare the student for the culminating examination. Students are required to take the AP Exam in May.

**SCIA2114 Chemistry 5.00 Yr**

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

Completion of Biology (or Biology Honors) and Algebra I with Grades of C or better. This course provides students with a fundamental understanding of the chemical principles involved in the natural world. Covered topics include: matter, scientific measurement, an exhaustive study of the Periodic Table of Elements, chemical formulae and quantities, physical and chemical changes, stoichiometry, thermochemistry, a detailed study of the behavior of gases, periodicity, bonding, solutions, kinetics, acids and bases, oxidation-reduction reactions, electrochemistry and nuclear chemistry. Students perform weekly laboratory experiments and prepare formal lab reports accordingly to a prescribed format.

**SCIA2116 Chemistry (Bil) 5.00 Yr**

Completion of Biology (or Biology Honors) and Algebra I with Grades of C or better. This course provides students with a fundamental understanding of the chemical principles involved in the natural world. Covered topics include: matter, scientific measurement, an exhaustive study of the Periodic Table of Elements, chemical formulae and quantities, physical and chemical changes, stoichiometry, thermochemistry, a detailed study of the behavior of gases, periodicity, bonding, solutions, kinetics, acids and bases, oxidation-reduction reactions, electrochemistry and nuclear chemistry. Students perform weekly laboratory experiments and prepare formal lab reports accordingly to a prescribed format. Bilingual support is offered for emerging language learners

**SCIA2128 General Science: Chemistry (Resource) 5.00 Yr**

**SCIA2312 Chemistry Honors 5.00 Yr**

Completion of Biology (or Biology Honors) and Algebra I with grades of B or better (Placement test required for non-AE students.)

This course helps students gain a fundamental understanding of physical and chemical changes, atoms, molecules, basic atomic structure, electron configuration, the Periodic Table, quantitative calculations, chemical reactions, acids, bases, solutions, behavior of gases, etc. The curriculum includes: projects, laboratory investigations, demonstrations and problem-solving activities.

**SCIA3311 AP Chemistry 6.00 Yr**

Chemistry, Placement Assignment, Teacher recommendation.

This course is a systematic review of chemistry designed for the student with a strong background who needs a review and some additional practice in problem solving. It helps students who want to improve their preparation for college chemistry as well as those who desire advanced placement. Topics covered include gas laws and stoichiometry, chemical reactions, atomic theory, structure and bonding, equilibrium, acids and bases, thermodynamic, kinetics, and electrochemistry. Students are required to take the AP Exam in May.

**SCIA4124 Earth Science 5.00 Yr**

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

Successful completion of grade 9 Biology.

This course involves the study of the planet Earth and its relationship to the rest of the universe. Students learn the structure, dynamics and geophysical systems of the earth. Specific topics include: the Solar System, landmasses, oceans, rocks and minerals, climate and natural resources.

**SCIA4126 Earth Science (Bil) 5.00 Yr**

Successful completion of grade 9 Biology.

This course involves the study of the planet Earth and its relationship to the rest of the universe. Students learn the structure, dynamics and geophysical systems of the earth. Specific topics include: the Solar System, landmasses, oceans, rocks and minerals, climate and natural resources. Bilingual support is offered to emerging language learners.

**SCIA4322 Earth Science Honors 5.00 Yr**

Open to 12th graders who have successfully completed physics and chemistry.  
(Placement test required for non-AE students.)

This course is a full year lab-based science course that exposes students to astronomy, geology, and oceanography on a higher level of understandings. Astronomy provides a broad introduction to the solar system including the planets, moons, asteroids, stars and stellar evolution, galaxies, quasars, black holes, and the Big Bang Theory. Geology is the study of rocks, minerals, plate tectonics, earthquakes, volcanism, geological formations, and the forces that constantly reshape our planet. The study of oceanography is important to understand not only how the oceans operate, but also how the oceans interact with Earth's other systems.

**SCIA4114 Environmental Science 5.00 Yr**

This full year lab based science course will introduce students to the field of environmental science. Major themes will include ecology and ecosystems, global cycles and physical systems, and the impact of human populations on ecosystems. Through experimentation and internet based activities, students will develop skill in handling the tools in use in environmental science. It is recommended that students have completed a full year of biology and chemistry so that they can utilized the knowledge and skills gained in these disciplines to the study of Environmental Science. This course will allow students to investigate the introduction of green technologies into current society.

**SCIA4116 Environmental Science (Bil) 5.00 Yr**

This full-year-lab based science course will introduce students to the field of environmental science. Major themes will include ecology and ecosystems, global cycles and physical systems, and the impact of human populations on ecosystems. Through experimentation and internet-based activities, students will develop skill in handling the tools in use in environmental science. It is recommended that students have completed a full year of biology and chemistry so that they can utilized the knowledge and skills gained in these disciplines to the study of Environmental Science. This course will allow

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

students to investigate the introduction of green technologies into current society. Bilingual support is offered to emerging language learners.

**SCIA4312 Environ Science Honors 5.00 Yr**  
**Placement test required for non-AE students.**

This science elective is open to all students who have an interest in the study of the world around them. There are no prerequisites and the duration is one full year. The course discusses the environment from an ecosystems approach, but focuses on the impact that human civilization has had on the natural world. Ozone depletion, water pollution, solar energy, and recycling are a few of the topics that are discussed using reading selections from current magazines and newspapers.

**SCIA4311 AP Environ Science 6.00 Yr**

grade of “B” or higher in Biology and Chemistry, Placement Assignment, teacher recommendation.

This full year AP science course is designed to be the equivalent of a one-trimester college laboratory science course in Environmental Science. This course discusses the environment from an ecosystems approach, but focuses on the impact that human civilization has had on the natural world. Students are required to think and write independently and to perform a series of hands-on laboratory experiences. Extensive reading on a college level from texts and supplemental materials is undertaken to properly prepare students for the required AP examination. Students are required to take the AP Exam in May.

**SCIA3114 Physics 5.00 Yr**

This course deals with the scientific study of matter, energy, force and motion and the way they relate to each other. The major areas of concentration include: scientific method, measurement, force, motion, energy, heat, structure of matter, wave motion, sound, light, electricity, electromagnetism, quantum theory and nuclear physics.

**SCIA3116 Physics (Bil) 5.00 Yr**

This course deals with the scientific study of matter, energy, force and motion and the way they relate to each other. The major areas of concentration include: scientific method, measurement, force, motion, energy, heat, structure of matter, wave motion, sound, light, electricity, electromagnetism, quantum theory and nuclear physics. Bilingual support is offered to emerging language learners.

**SCIA3312 Physics Honors 5.00 Yr**

B or better in last completed core science course. (Placement test required for non-AE students.)

In this course students study heat, kinetic theory, properties of gases, liquids and solids and the laws of thermodynamics. All students work on electrostatics, properties of direct

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

current and magnetism. The curriculum includes projects, experiments, labs and problem solving exercises.

**SCIA4321 AP Physics 1 6.00 Yr**

Geometry and concurrent with Algebra 2, Placement Assignment, Teacher recommendation.

AP Physics 1 is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound, and introductory, simple electrical circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. This course requires a high level of commitment; independent study is essential to satisfy the course requirements. Students take the College Board AP Exam in May.

**SCIA4331 AP Physics 2 6.00 Yr**

AP Physics 1, Placement Assignment, Teacher recommendation

AP Physics 2 is an algebra-based, introductory college-level physics course that explores topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. This course requires a high level of commitment; independent study is essential to satisfy the course requirements. Students take the College Board AP Exam in May.

**SCIA4341 AP Physics C-Mechanics 6.00 Yr**

Calculus (or Concurrent), Placement Assignment, Teacher recommendation.

AP Physics C: Mechanics is a calculus based, college-level physics course that rigorously explores topics in the following six content areas: kinematics; Newton's laws of motion; work, energy, and power; circular motion and rotation; and oscillations and gravitation. Through guided inquiry and student-centered learning, students will develop scientific critical thinking and reasoning skills. This course requires a high level of commitment; independent study is essential to satisfy the course requirements. Students take the College Board AP Exam in May.

**SCIA4351 AP Physics C-Electricity and Magnetism 6.00 Yr**

Calculus (or Concurrent), AP Physics C: Mechanics, Placement Assignment, Teacher recommendation.

AP Physics C: Electricity and Magnetism is a calculus based, college-level physics course that rigorously explores topics in the following five content areas: electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Through guided inquiry and student-centered learning, students will develop scientific critical thinking and reasoning skills. This course requires a high level



**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

of commitment; independent study is essential to satisfy the course requirements. Students take the College Board AP Exam in May.

**SCIA5114    Anatomy and Physiology    5.00    Yr**

Elective

Biology and Chemistry

This course is designed to enhance a student's understanding of the structure and function of the human body. Emphasis is placed on internal regulation mechanisms and the interconnectedness of the 12 body systems. The student will examine the fascinating complexities of human tissue organization through lab based investigations, diagrams, and models. This course is intended for students who seek a medical or health related career focus.

**SCIA4342    Anatomy and Physiology Dual Enr Honors    6.00    Yr**

Elective

Biology, Chemistry, Physics (Placement test required for non-AE students, teacher recommendation)

This year-long elective, meeting five periods per week, is part of the Healthcare Occupations Partnership Program with Bergen Community College. Students accepted into the program have preference in admission to the course, but juniors and seniors are welcome if space is available. This course examines the human body from a systems approach and is a laboratory-based class. Animal dissections are an integral part of the course as well as didactic lectures. It is designed to prepare students for further study in the health care field and to earn college credits while still in high school. In order to earn college credits, all students must successfully complete the final examination as prescribed by the college. In addition, those students that are not part of the Healthcare Occupations Partnership Program are required to pay a fee to the college to receive a transcript.

## **Two-day Electives**

**SCIZ5321    Chemical Engineering    1.00    S**

Elective

Chemistry

As an introduction to the career track of the chemical engineer, this course will utilize the background knowledge students have gained from chemistry and combine it with the fundamentals of engineering. What does a chemical engineer do? This career can have many applications in industry such as designing chemical plant equipment and devising processes for manufacturing products. The three major areas that will be addressed during this semester course are the thermodynamics of reactions (such as fuels), the separation of materials by distillation/adsorption/ chromatography, and biochemical

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

processes that are related to the development of pharmaceuticals. This course pulls together the related areas of science, technology, and engineering.

**SCIZ5311 Electricity and Magnetism 1.00 S**

Elective

This course is primarily for 12th graders who are interested in further exploring the concepts of electricity and magnetism, but are not enrolled in AP Physics. This is beneficial for students in the Pre-Engineering, Biomedical, or Information System Academies, who may be required to take physics courses at the college level. This additional topic enhances the profile of the student when applying to college and can be beneficial in the preparation for the SAT II in physics. Students explore the natural phenomenon of electricity and magnetism, as well as its application in circuitry.

**SCIZ5312 Forensic Science 1.00 S**

Elective

This elective begins with training in deductive reasoning of crime scene evidence. The types of evidence available at a crime scene can be biological or physical. Tissue and bone samples, bodily fluids, fingerprints, footprints, and DNA are examples of some biological samples. Other forms of physical analysis are fibers and hair, soil analysis, tool marks, ballistic data, and chemical content. The study of Forensic Anthropology uses science and math to determine the identity of a missing person. Students investigate famous crimes in history and review the forensic evidence to determine, using 21st century techniques, whether or not the original jury findings were correct.

**SCIZ5322 Independent Science Research 1.00 S**

Elective

Experimental Design

Using the skills learned in the prerequisite course, students will identify a research project and then proceed to undertake the independent research under the guidance of a mentor-teacher. Students must meet deadlines for entry into one of the acceptable competitions and be present at the competitions. Students accept the responsibility of providing some financial resources to obtain required materials for the research and to offset travel costs incurred when attending competitive events.

**SCIZ5313 Marine Biology 1.00 S**

Elective

Marine Biology teaches the student about the complexity and diversity of life found in the oceans. Under the waves live the great pelagics of the deep like whales, tiger sharks, and Manta Rays. Students explore the diversity of a coral reef, the lethality of a blue octopus, the oddities of a horseshoe crab, and the power of a wave.

**SCIZ5314 Meteorology 1.00 S**

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

Elective

This course offers a general exposure to weather and the forces that produce it. Students study atmospheric physics, some dynamics, even some folklore, from fog and drizzle to tornadoes and hurricanes.

**SCIZ5315    Microbiology 1.00    S**

Elective

The course is designed to introduce students to the world of microbes. Attention is given to the great diversity of microorganisms, beneficial as well as pathogenic bacteria. Students explore how bacteria and viruses multiply causing disease in the process. Current issues in microbiology are also investigated such as emerging viruses, bio-terror, and the problems our healthcare system faces in light of these events.

**SCIZ5316    Pharmacology            1.00    S**

Elective

Pharmacology has two objectives: to introduce students to major concepts related to emerging and re-emerging infectious diseases and how the body defends itself, and to familiarize students with the modern pharmaceuticals – drugs engineered to improve our lives. The improvement of personal and public health is the central mission of the National Institutes of Health, the world's largest organization devoted to biomedical research, and a major contributor to the curriculum of this course.

**SCIZ5317    Real World Physics Honors(Yr)    2.00    Yr**

Elective

Placement test required for non-AE students.

This course allows students who have taken or are currently enrolled in physics, AP Physics or NJIT physics to utilize their knowledge in real-world applications. Amusement park physics, biomechanics, and building design provide opportunities for students to apply the academic concepts learned in other physics courses to actual situations that exist in the world in which they live.

**SCIZ5318    Virology            1.00    S**

Elective

In this class students examine how viruses replicate and infect their host. Students explore the scientific struggle to conquer, analyze and understand viruses and the diseases they cause. We will discover how scientists can utilize viral particles to treat other diseases while investigating epidemics caused by viruses such as HIV and influenza. It is our goal by the end of this class to have a better understanding of viruses, their mechanism of action, and how to protect ourselves from infections, while intriguing students to learn more about the viral world around us.

**SCIZ5319    Zoology            1.00    S**

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

Elective

The objective of this course is to give students an overview of the great diversity that exists within the animal kingdom. Focus is on evolutionary relationships among the different animal phyla and how each group has successfully adapted to a particular environment. To enhance understanding, students read, view videotapes, handle and examine live specimens, and perform dissections.

**SCIZ5325    Microbiology Dual Enrollment    5.00   Yr    (pre)**

## **Social Studies**

**SSCA1114    United States History 1    5.00   Yr**

This course provides students with a chronological view of American History from the age of Exploration and Discovery to the Progressive Era. The topics stressed include: Colonial America, the Revolutionary Period, The Civil War and Reconstruction Era, The Frontier Era, Westward Expansion and World War I and II.

**SSCA1116    United States History 1 (Bil)    5.00   Yr**

Limited English Proficient (LEP)

This course provides students with a chronological view of American History from the Age of Exploration and Discovery to the Progressive Era. The topics stressed include Colonial America, the Revolutionary Period, The Civil War and Reconstruction Era, The Frontier Era, Westward Expansion and World War I. The instruction is conducted in the student's native language. Careful attention and appropriate methods are used which are academically and culturally sensitive to students' needs. Content knowledge and skills in are presented without jeopardizing course content.

**SSCA1312    United States History 1 Honors    5.00   Yr**

B or better in grade 8 social studies and teacher recommendation.

This required course for ninth graders defines and explores the theme The American Experience. Course work focuses on the role of the individual in creating and maintaining a democratic society and the factors that have shaped, and continue to shape, our national identity. Current events are highlighted. Within a project-based curriculum, students enhance their use of purposeful questioning and critical thinking through a variety of active learning experiences.

**SSCA2111    AP World Studies Dual Enrollment    5.00 Yr**

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

**SSCA2114 United States History 2 5.00 Yr**

United States History I

This course provides students with an in-depth understanding of the events, trends, and policies of American society in the late 20th century and how different cultural and gender groups have contributed to the changing nature of American society. By participating in study groups, the students analyze the historical incidents of each decade in the 20th century and prepare a culminating project that shows the impact that various decades have on our present lives and how they may influence our lives during the 21st century.

**SSCA2116 United States History 2 (Bil) 5.00 Yr**

Limited English Proficient (L.E.P.)

This course provides students with an in-depth understanding of the events, trends, and policies of American Society in the late 20th Century and how different cultural and gender groups have contributed to the changing nature of American Society. By participating in study groups, the students will analyze the historical incidents of each decade in the 20th century and prepare a culminating project that shows the impact that the various decades have on our present lives and how they will influence our lives during the 21st century. The instruction is conducted in the student's native language. Careful attention and appropriate methods are used which are academically and culturally sensitive to students' needs. Content knowledge and skills are presented without jeopardizing course content.

**SSCA2312 United States History 2 Honors 5.00 Yr**

B or better in United States History I and teacher recommendation.

This is the required course for tenth graders. Students continue to explore the theme The American Experience; that is, the factors that has shaped and continues to shape our national identity, with an emphasis on 20th century events. This course encourages students to apply their knowledge of U.S. history to contemporary topics and to expand their awareness and understanding of the domestic and international issues facing the United States today.

**SSCA3114 World Studies 5.00 Yr**

Successful completion of United States History I & 2

World History is a one-year course that is required for graduation. It is based on district outcomes and a set of core proficiencies in knowledge, skills, attitudes and social examination of human beings, which includes their physical environment, social class structure, religious and political institutions, economic systems and global independence.

**SSCA3113 World Studies Dual Enrollment Honors 5.00 Yr**

Core Course

Successful completion of United States History I & 2

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

This course is a survey of world history from prehistoric to contemporary times. Students will learn about the socio-economic, political, and ideological conditions of various time periods as they study historical events and the connections between the various world cultures throughout the period being studied. Students will gain an understanding on why the world developed the way it did and develop the ability to analyze historical evidence and express understanding and analysis in writing. Students who successfully complete this course, and pay a required tuition fee, are eligible to receive college credits through an articulation agreement with Bergen Community College.

**SSCA3116 World Studies (Bil) 5.00 Yr**

Limited English Proficient (LEP)

This course provides students with a knowledge and understanding of the world through a study of four geographical regions. Students examine the interaction of these geographical/cultural areas to better understand what elements have shaped their lives and made the world what it is today. The instruction is conducted in the student's native language. Careful attention and appropriate methods are used to be academically and culturally sensitive to the students' needs. Content knowledge and skills are presented without jeopardizing course content.

**SSCA3311 AP U S History 5.00 Yr**

Recommendation of Honors U.S. History I Teacher and Honors US History 2 Teacher and a B+ or better in U.S. History 1 and U.S. History 2

This course is a continuing comprehensive study of United States History from the Age of Exploration and Discovery to the Progressive Era. Students may earn college credit upon completion of the course with a passing grade on the Advanced Placement Examination. Students will be required to do four major projects. This course involves intensive and extensive reading and writing assignments.

**SSCA3312 World Studies Honors 5.00 Yr**

B or better in U.S. History 2 and teacher recommendation

This junior year required core course provides students with a broad and thorough understanding of world history from the late Middle Ages to modern times. Students develop a history-oriented vocabulary, a solid knowledge of geography, a basic understanding of the political and economic systems and world religions, as well as a strong sense of global cultures and history. Students are also able to make connections and draw comparisons across various cultures. The students continue to develop skills needed to be historical thinkers, who can examine different points of view, handle and interpret documents, and synthesize information effectively in papers, projects, and presentations.

**SSCA4313 Sociology Dual Enrollment 5.00 Yr**

**Elective**

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

Sociology Dual Enrollment (Honors) examines the culture and structure of human societies. The course focuses on social groups and institutions, their norms and controls, and how and why they change. Topics of focus include the family, education, deviance, race and ethnicity, sex roles, societal change, and social inequalities. The course examines the vital human issues of the day, such as crime, poverty, education and minorities. A student who takes the course is expected to do selected reading from supplementary materials and conduct research on selected topics. **Students across the campus can take this social studies elective.** Students who successfully complete this course, and pay a required tuition fee, are eligible to receive 5 college credits through an articulation agreement with Bergen Community College.

SSCA4321 AP US Government 5.00 Yr  
Elective

SSCA5311 AP Economics 5.00 Yr  
Elective

Teacher recommendation

This course allows students to take college-level economics and exams and to learn college credit or placement while still in high school. The AP program offers two separate examinations in economics: one in microeconomics and one in macroeconomics. Each examination is intended for qualified students who wish to complete studies equivalent to at least one semester of college-level preparation in economics. Students take both examinations in May for a single fee. A separate grade is reported for each exam.

### **Five-day Electives**

SSCQ5114 Economics 5.00 Yr

SSCQ5115 African/African American History 2.50 S

Elective

Grades 10-12

African/African-American History provides students with a basic understanding of the geography, history, and cultures of Africa, as well as an overview of the contributions and roles of African-Americans in United States History. Students will explore the great kingdoms and empires of ancient Africa, the nations of modern Africa, traditional cultures, colonialism and nationalism as they pertain to African history. Students will also assess the African-American experience by studying slavery, the Civil Rights Movement, and the Black Revolution.

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

**SSCQ5110 Money Matters: Personal Finance Simulations 2.50 S**

Graduation Requirement

Through the use of specially designed projects and real-world situations, this course aims to prepare students for the countless challenges and choices they will face in the financial world as they move into adulthood. Students develop an understanding of fundamental money-related concepts that include employment, money management, goal setting, budgeting, credit and debt management, risk and investments, income taxes, and identity theft. As they solve “virtual” financial problems, students practice making sound financial decisions – and begin their journey to becoming “real” savvy consumers!

**SSCQ4123 Psychology Dual Enrollment Honors 5.00 Yr**

Elective

Social Studies

This course is designed to introduce students to the scientific study of human behavior and mental processes in the development of self. Emphases are on facts, phenomena, principles, and research methods. Practical application of self-actualization is the hallmark of this course, which is intended for mature, motivated members of the Senior Class, but primarily for students in the D.M.H.S. Public Service Academy. This course requires the critical thinking skills needed for analytical reading and writing.

**SSCQ4124 Psychology 2.50 S**

Elective

This course is designed to introduce students to the scientific study of human behavior and the development of self. Emphases are on facts, phenomena, principles, and research methods. Practical application of self-actualization is the hallmark of this course, which is intended for mature, motivated members of the Senior Class. This course requires the critical thinking skills needed for analytical reading and writing.

**SSCQ4114 Sociology 2.50 S**

Elective

Sociology, as a discipline, seeks to explain human behavior in groups. This course examines the interaction between people within a school environment, family situations, at work, in government and at leisure. Sociology examines the vital human issues of the day, such as crime, poverty, education and minorities. A student who takes the course is expected to do selected reading from supplementary materials, conduct research on selected topics, listen to guest speakers, and participate in field trips.

## **Two-day Electives**

**SSCZ3311 AP Dual World Studies Enrollment Prep 2.50 Yr**

**SSCZ5214 Young Adult Leadership (females) 2.50 Yr**



**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

**Pre-requisite – Selection process and application**

Elective

Young Adult Leadership (The Change You Want To See) is a course that allows emerging and existing leaders an opportunity to explore the concept of leadership and to improve and develop their leadership skills. Young Adult Leadership is a class wherein the instruction will consist of: Introduction to and development of leadership skills, team building, improvement of writing, speaking, social and organization skills. Also, this class will be responsible for the planning and execution of school improvement functions and activities.

**SSCZ5215 Young Adult Leadership (males) 2.50 Yr**

**Pre-requisite – Selection process and application**

Elective

Young Adult Leadership (The Change You Want To See) is a course that allows emerging and existing leaders an opportunity to explore the concept of leadership and to improve and develop their leadership skills. Young Adult Leadership is a class wherein the instruction will consist of: Introduction to and development of leadership skills, team building, improvement of writing, speaking, social and organization skills. Also, this class will be responsible for the planning and execution of school improvement functions and activities.

**SSCZ8314 African/African American History 1.00 S**

Elective

Grades 10-12

African/African-American History provides students with a basic understanding of the geography, history, and cultures of Africa, as well as an overview of the contributions and roles of African-Americans in United States History. Students will explore the great kingdoms and empires of ancient Africa, the nations of modern Africa, traditional cultures, colonialism and nationalism as they pertain to African history. Students will also assess the African-American experience by studying slavery, the Civil Rights Movement, and the Black Revolution.

**SSCZ8311 Ancient Egypt: Land of the Pharaohs 1.00 S**

Elective

Egypt... The word conjures up images of the Pyramids of Egypt, the Great Sphinx, the tombs of Pharaohs, and the river Nile. This course will examine the development of Egyptian culture. We will examine the building of the Great Pyramids in the Old

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

Kingdom, the development of Egyptian Mythology and writing in the Middle Kingdom, and the expansion of the Egyptian empire in the New Kingdom, culminating with Egypt's fall to the Greeks and the Romans.

**SSCZ5312 Comparative Religions 1.00 S**

Elective

Have you ever wondered about another student's religion and what they believe in? In this class, students explore the world's major religions. They discuss religious histories and belief systems. Students also explore the similarities and differences among Buddhism, Hinduism, Judaism, Christianity, and Islam.

**SSCZ8317 Crime and Criminals 1.00 S**

Elective

Crime and Criminals will provide a sociological understanding of the causes of criminal behavior, along with policy discussions on how best to prevent crime. The course will also include an overview of criminal profiles along with victimization studies. Students will also use the book Crime Scene Investigation by Barbara Harris to get practical experience in applying problem solving, interdisciplinary skills in a simulated crime case.

**SSCZ5317 Diversity Day 1.00 S**

Elective

What makes me different from you? Is it our age? Is it our race? Could it be that your family is rich and mine isn't? Or maybe it's that my dad works in a lumberyard and yours works in a fancy office? Or maybe it's that I live with my dad and you've never seen yours? Do you think my religion is weird? Why do so many people live in your house? If we're such good friends, how come I never realized how different we are? When people think about diversity, they usually just think about race. This class explores diversity in all its forms – racial, religious, social, economic, political, and gender-related. Students examine examples of diversity in their community as well as the world-at-large. They examine the ways in which families, friends, and leaders respond to diversity and struggle with the inherent assets and liabilities that come with a diverse society. Students help to organize Diversity Day, the Multicultural Breakfast, the World Cultures Festival, and the Culture Cabaret.

**SSCZ6314 Diversity: A Study of Conflict 1.00 S**

Elective

This Diversity class focuses on international conflicts. If you've always wanted to understand the conflict between Palestinians and Jews in Israel, Catholics and Protestants in Northern Ireland, Apartheid in South Africa, tensions between North and South Korea, India and Pakistan, Tibet and China, this is the class for you.

**SSCZ8312 History of Innovation 1.00 S**

Elective

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

The course will focus on advancements of science and in technology from the Stone Age until the modern world. Students will examine the importance of tool building, the extraction of use of metals, and the science and technology of ancient civilizations. Moving on to the Renaissance and emergence of the fields of calculus, physics, and astronomy, students will explore the discoveries that shaped European and American culture. Innovations in life sciences and medicine will include the germ theory, x-rays, antibiotics, and vaccines. Lastly the modern inventions including the combustion engine, nuclear energy, computers, the Internet, and the development of the microchip will be studied.

**SSCZ5316    John Grieco Scholarship Fund    1.00    S**

Elective

Learn about the power of the non-profit right here on the DM/AE campus. The Dr. John Grieco Scholarship Fund will be holding fundraisers like the Dance-a-thon, Culture Cabaret, Blue Moon Community Night, and a car wash. Students oversee the distribution and promotion of scholarship applications and create plans for the Grieco Outdoor Classroom.

**SSCZ7312    Latinos in the U S    1.00    S**

Elective

The United States is the 4th largest Spanish-speaking country in the world today. This course provides a brief history of the U.S. through the experience, struggles and accomplishments of Latinos. Students examine various issues that include but are not limited to immigration, education, employment, housing, English-only laws, racism and discrimination. Students research and explore the accomplishments of the many historical and current political and civic leaders that have made significant contributions to the Latino community and the United States.

**SSCZ8318    Local History Research    1.00    S**

Elective

Concurrent with AP US History

Students enrolled in AP US History will be conducting research on a local history topic, which would dovetail on the topics they are studying as they prepare for the AP History exam. College-level research techniques would be applied and students would be required to submit their final research paper for publication in a scholarly journal or enter it into a **history-based research competition.**

**SSCZ8315    Modern America/Cult'l Hist 1960 to Pres 1.00    S**

Elective

**SSCZ1310    Modern Chinese Society    1.00    S**

Elective

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

**SSCZ6319 Modern Wars 1.00 S**

Elective

In this course, students learn about the primary causes of Modern Wars. The course focuses not only on history, but also on political science, as students examine how wars were waged and the consequences of war for the United States and the rest of the world. The impact of war on the lives of citizens in the United States is explored. Elements of popular culture are studied in order to understand these effects. Students are assessed on tests, written work and class discussion based on readings and handouts.

**SSCZ5311 The Ancient World:Rome 1.00 S**

Elective

This course focuses on the Ancient Cultures Egypt, Greece, and Rome. Students will explore Greek civilization from Mycenaean times to the Hellenistic expansion under Alexander the Great. Major topics of examination are Homer, the emergence of the polis, the Persian and Peloponnesian wars, and the flowering of Greek culture at Athens during the 4th and 5th centuries. Ancient Rome focuses on the rise of Rome in Italy and its birth as a republic to its fall to the Goths in 476 AD. Major topics of examination are the consolidation of the Italian peninsula, Rome as a republic, Julius Caesar, the Pax Romana, the rise of Christianity, and the fall of the Roman state.

**SSCZ5315 The Holocaust 1.00 S**

Elective

Students consider one of the greatest tragedies of the 20th century in order to better understand how it occurred and how such tragedies can be prevented in the future. The main focus of the course is the persecution and mass murder of European Jews and various other groups between the years 1933-45. Students learn that the Holocaust was not an accident, but occurred when choices were made which allowed, legalized, and institutionalized hate, prejudice, and murder. Students study the rise of Nazism, analyze its appeal, and evaluate the responses of perpetrators, victims, bystanders, and rescuers. Finally, students compare and contrast the Holocaust with other genocides that have taken place in the past or are presently occurring.

**SSCZ5310 The Mediterranean World: Ancient Greece 1.00 S**

Elective

This course focuses on the rise of Greek civilization from Mycenaean times to the Hellenistic expansion under Alexander the Great. Major topics of examination are Homer, the emergence of the polis, the Persian and Peloponnesian wars, and the flowering of Greek culture at Athens during the 4th and 5th centuries.

**SSCZ7311 The Supreme Court 1.00 S**

Elective

In this course students interpret the meaning of the United States Constitution. Students analyze cases and their impact on society through reading, discussion and critical writing.

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

Particular emphasis is placed on legal issues involving First, Fourth, Fifth, Sixth, Eighth and Fourteenth Amendments to the United States Constitution. Students are required to write briefs of landmark Supreme Court cases. Discussions, projects and activities guide students as they analyze and evaluate Supreme Court decisions.

**SSCZ8316 US Government Campaign 1.00 s**

Elective

Concurrent with AP US Government

This course would be a requirement for all students enrolled in the AP US Government course which requires 2 hours per week as a campaign intern for a political campaign during the first three months of the course. Students will learn about all aspects of working in a political campaign for the November general election. Students will also learn how to analyze a campaign, track polls, make voting predictions, and to evaluate voting trends .

## **World Language**

**WLDA1124 French 1 5.00 Yr**

The fundamental skills and concepts of the French language and the culture of people from French speaking countries are introduced. The student begins to understand, speak, read and write in French. Audio-visual aids and extensive drills reinforce structures and oral expression. Students take at least three to four quizzes a week. Brief writing exercises stress dialogue formation and review of grammar. Extensive work is done in cognate development preparation for the HSPA and SAT.

**WLDA1322 French 1 Honors 5.00 Yr**

French 1 is a beginner's course designed to challenge students to use language in meaningful contexts and real-life situations. It incorporates classroom instruction, student-centered activities, and technology-based cooperative projects. While developing communication skills in the target language, students gain knowledge and understanding of the French culture, and connect to other disciplines and information. Students develop strategies that enable them to continue the process of language learning and to understand better their own culture and its relationship with other cultures. This is a five-credit, full-year course.

**WLDA2124 French 2 5.00 Yr**

French I

The student increases proficiency in communication skills. New vocabulary and language patterns are learned through listening, speaking, reading and writing. Readings are the basis for the study of attitudes and customs in French-speaking countries throughout the world. Students take at least three quizzes per week. Pupils receive more

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

extensive written exercises along with guided paragraph writing weekly. Continued work is given in cognate development.

**WLDA2322 French 2 Honors 5.00 Yr**

French I

Incorporating and reinforcing the elements of language taught in French I, this course is designed to expand students' abilities in the target language to more complex situations and settings. Even though the emphasis is placed on communication, students continue to develop the four skills of listening, speaking, reading, and writing, as well as extend their knowledge of the French culture. Relevant and developmentally appropriate topics that are intrinsically interesting, cognitively engaging, and culturally connected are introduced in meaningful contexts to challenge students to use language to broaden their understanding of themselves and their world, and to stress the interrelationship between language and culture. The goal is ultimately to provide students with the skills they need to function in Francophone countries and communicate with native speakers. This is a five-credit, full-year course.

**WLDA3124 French 3 5.00 Yr**

French 2

The student strengthens understanding, speaking, reading and writing skills. Extensive vocabulary, grammar, and listening comprehension drills are used to achieve oral fluency. Composition development proceeds from guided writing to original writing. Culture is an intrinsic part of reading. Students begin keeping a journal. Students continue writing in journals at least five times a week. Students are given independent multi-cultural assignments beginning in the second quarter. Biweekly quizzes focus on the development of grammar and vocabulary.

**WLDA3322 French 3 Honors 5.00 Yr**

French 2

Incorporating the elements of language taught in French I and 2, this course is designed to expand students' abilities in the target language to more complex situations and settings. Even though the emphasis is placed on communication, students are introduced to literary pieces designed to expand their reading and writing skills. The goal is ultimately to provide students with the skills they need to interact with native speakers. This is a five-credit, full-year course.

**WLDA4322 French 4 Honors 5.00 Yr**

B or better in French 3

This course is designed to develop students' communication skills and cultural knowledge of the French language. Students analyze various elements of French civilization while projects allow students to use language in a variety of situations with ever-increasing linguistic and cultural accuracy. Through the study of grammar and reading selections, students increase their control over the language structures while

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

gaining proficiency in listening speaking, reading and writing. The ultimate goal is to provide students with the skills they need to interact in an appropriate manner with native speakers.

**WLDA5321 AP French 5.00 Yr**

French 3

AP French Language and Culture is a college-level course intended for students in their fifth year of study of French. Exclusive use of French by teacher and students for active communication is de rigueur in the classroom. Students use textbooks and other authentic materials and resources that are in accordance with those suggested on the College Board website. Students are expected to take the AP French Language and Culture exam at the end of this course.

**WLDA1115 Spanish A 5.00 Yr**

Offers a communicative approach to the learning of the Spanish language. It offers students an alternative approach to the traditional learning of a foreign language and focuses on developing two core communication skills: speaking and listening. The intention of this course is to allow students to develop the ability to carry on meaningful conversations in the target language. The main focus will be speaking and listening activities. Audio-visual aids reinforce the oral expressions learned in class and special emphasis is placed on verbal communication strategies.

**WLDA2115 Spanish B 5.00 Yr**

Pre-Requisite: Spanish A

The student increases proficiency in communication skills by increasing vocabulary and language structures. Reading and writing skills are used in this level to reinforce the language structures learned in Spanish A. The reading assignments are geared to learning about the customs and traditions of Spanish speaking countries. Brief writing assignments are used to practice dialogue formation and focus on real-life situations.

**WLDA1114 Spanish 1 5.00 Yr**

In this course, students acquire the ability to form sentences in Spanish with simple vocabulary words. They are able to comprehend spoken Spanish after learning the basic vocabulary of each chapter. Through gradual growth in speaking, listening and written skills, students achieve a comprehensive proficiency in basic Spanish language skills. Students also develop a broad understanding of Latino cultures. Daily activities in the classroom concentrate on obtaining practical knowledge skills by means of frequent listening and speaking exercises. A variety of technological aids are used to enhance students' ability to comprehend dialogs and narratives on CD-Rom, videos and television programs. Homework includes at least one writing exercise per week, and there are two quizzes per week, one of which is oral.

**WLDA1312 Spanish 1 Honors 5.00 Yr**

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

This course is designed to prepare students to function linguistically and culturally as novice speakers of Spanish. The curriculum challenges students to use language in meaningful context in order to broaden their understanding of the Spanish language. Rather than focusing on mastery of grammar and vocabulary as the primary objectives of secondary language study, the course requires students to communicate about relevant topics that are intrinsically interesting, cognitively engaging and culturally connected. This is a five-credit, full-year course.

**WLDA2114 Spanish 2 5.00 Yr**

Spanish I

The student increases proficiency in communication skills. New vocabulary and language patterns are learned through listening, speaking, reading and writing. Readings are the basis for the study of customs in Spanish-speaking countries. Students have at least three to four quizzes a week. Brief writing exercises stress dialogue formation and review of grammar.

**WLDA2312 Spanish 2 Honors 5.00 Yr**

Spanish I

Spanish 2 incorporates and reinforces the elements of language taught in Spanish I. The goal of the course is to expand students' ability to communicate in Spanish in more complex situations and settings. In addition to verbal communication skills, students also work to develop the skills of reading and writing, as well as develop their understanding of Spanish culture. This is a five-credit, full-year course.

**WLDA3114 Spanish 3 5.00 Yr**

Spanish 2

Students strengthen mastery of speaking, comprehension, reading and writing skills through individual and collaborative activities. Students read short stories from well-known Spanish authors and poems from African-American authors who write in Spanish. Students do written exercises weekly and write two compositions per marking period. Students study Hispanic countries to gain awareness of cultural similarities and differences. All work is kept in a Personal Portfolio.

**WLDA3113 Spanish 3 Dual Enr 5.00 Yr**

The goal of this course is to provide students with the skills they need to function in Spanish-speaking countries and to communicate with native speakers. Relevant and developmentally appropriate topics that are intrinsically interesting, cognitively engaging and culturally connected are introduced in meaningful contexts to challenge students to use language to broaden their understanding of themselves and their world and to recognize the interrelationship between language and culture. Authentic readings relevant to teenagers are introduced and discussed in the target language. This is a five-credit, full-year course. This course is an honors level course that is being offered as a



**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

dual enrollment course with Bergen Community College, meaning that the workload will be identical to that of a college class.

**WLDA3312 Spanish 3 Honors 5.00 Yr**  
Spanish 2

The goal of this course is to provide students with the skills they need to function in Spanish-speaking countries and to communicate with native speakers. Relevant and developmentally appropriate topics that are intrinsically interesting, cognitively engaging and culturally connected are introduced in meaningful contexts to challenge students to use language to broaden their understanding of themselves and their world and to recognize the interrelationship between language and culture. Authentic readings relevant to teenagers are introduced and discussed in the target language. This is a five-credit, full-year course.

**WLDA4312 Spanish 4 Honors 5.00 Yr**  
B or Better in Spanish 3, Native speaker and Placement Test

Spanish 4 is designed to substantially increase the active and passive vocabulary of the student. Readings relevant to the age and interest of the group are introduced. Current events and connections with World Literature I and 2 and World Studies provide opportunities to develop critical reading skills as well as analytical skills using the new language. Students continue to refine their communication and grammatical skills.

**WLDA5311 AP Spanish 5.00 Yr**  
Spanish 4 with a B or higher, Heritage 2 with a B or higher, three years of Spanish with a B or higher, Placement Test, Teacher Recommendation

The Advanced Placement Spanish Language Program is intended for those who have chosen to develop their proficiency in the Spanish language. Students should have a basic knowledge of the language and culture of the Spanish-speaking peoples and should have attained a reasonable proficiency in listening comprehension, speaking, reading and writing. This AP course covers the equivalent of a third year college course in advanced Spanish composition and conversation. The course is given completely in Spanish and emphasizes the use of Spanish for active communication. In this course students achieve a very high ability in reading, writing, speaking and listening. Students read, discuss and write about Spanish literature in various genres. Students must take the Advanced Placement Spanish Exam in May.

**WLDA1134 Spanish 1 Heritage 5.00 Yr**

This elective course offers the student who understands, speaks and uses Spanish at home, and/or in some social activities, the opportunity to explore and discover the history and the literature of authors from Spain, Mexico and the Caribbean. Special emphasis is placed on twentieth-century literature. All activities, readings, writings, projects, videos and grammatical resources are directed to teach communication efficiently. Most

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

importantly, this course aims to create an awareness regarding the richness of Latino heritage.

**WLDA1332 Spanish 1 Heritage Honors 5.00 Yr**

This course offers the student who understands, speaks, and uses Spanish at home, and/or in some social activities, the opportunity to explore, conceptualize, and apply the Spanish language and its inherent culture in his/her life. The literature component answers two organizing questions: "What makes me who I am?" and "What happens when two cultures collide?" All the activities, readings, writing, projects, audios, videos, and other lexical and grammatical resources are directed to teach how to communicate efficiently. The learner is viewed as a transmitter-receiver who produces clear messages and decodes efficiently.

**WLDA2134 Spanish 2 Heritage 5.00 Yr**

Spanish I Heritage

This course is designed for the student who understands, speaks and uses Spanish at home. The course work centers on nineteenth-century literature. Audios, videos, readings, writings and projects have the aim of allowing students to communicate more efficiently and effectively.

**WLDA2332 Spanish 2 Heritage Honors 5.00 Yr**

Spanish I Heritage

This course is designed for the student who understands, speaks, and uses Spanish at home. The coursework centers on the history and literature of Central America and the Caribbean. Students focus on the relationship of Latin American history and literature to the history and literature of the United States in the 20th century. Audios, videos, readings, writings, and projects have the goal of allowing students to communicate more efficiently and effectively.

**WLDA3332 Spanish 3 Heritage Honors 5.00 Yr**

Spanish 2 Heritage

This course facilitates the learning of the native language as an integral, pertinent and stimulating experience both intellectually and affectively by developing critical thinking skills, promoting the development of multiple intelligences, encouraging group work and enriching the vocabulary. At the same time, the course emphasizes ethic, aesthetic and civil values. The thematic units are coordinated with the general theme of World Literature I and 2 and World Studies from the English and Social Studies departments.

**WLDA5322 Chinese 5H/SAT 5.00 Yr**

**This course is designed for highly motivated students who are willing to accept the challenge of a rigorous academic curriculum to achieve the intermediate pre-advanced level of Chinese proficiency and to prepare for the Chinese Language and Culture SAT examination.**

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

WLDA1144 Mandarin 1 5.00 Yr

The Mandarin Program is designed for all JDMS students who will continue their study of Chinese Mandarin as well as for Dwight Morrow High School who are interested in the program with no prior knowledge of Chinese Mandarin or very limited knowledge of the language. In Mandarin I, the students will develop basic communicative competence in the Chinese language through real life thematic unites. Mandarin I, Mandarin II and Mandarin III will be offered. The year following Mandarin III, AP Mandarin will be considered.

WLDA1342 Mandarin 1 Honors 5.00 Yr

The Mandarin Program is designed for all JDMS students who will continue their study of Chinese Mandarin as well as for Dwight Morrow High School and Academies@Englewood who are interested in the program with no prior knowledge of Chinese Mandarin or very limited knowledge of the language. In Mandarin I, the students will develop basic communicative competence in the Chinese language through real life thematic unites. Mandarin I Honors, Mandarin II and Mandarin III will be offered. The year following Mandarin III, AP Mandarin will be considered.

WLDA2144 Mandarin 2 5.00 Yr

Students will enhance their communicative competence in the Chinese language through real life thematic unites. Performance assessment is utilized to evaluate students' progress. In addition, the students will keep a portfolio to track their own progress throughout the year.

WLDA2342 Mandarin 2 Honors 5.00 Yr

Mandarin 1 Honors

Students will enhance their communicative competence in the Chinese language through real life thematic unites. Performance assessment is utilized to evaluate students' progress. In addition, the students will keep a portfolio to track their own progress throughout the year.

WLDA3344 Mandarin 3 Honors 5.00 Yr

Mandarin 2 Honors

Students will enhance their communicative competence in the Chinese language through real life thematic unites. Performance assessment is utilized to evaluate students' progress. In addition, the students will keep a portfolio to track their own progress throughout the year.

WLDA4343 Mandarin 4 Honors 5.00 Yr

Mandarin 3 Honors

**Two-day Elective**

**ENGLEWOOD PUBLIC SCHOOL DISTRICT  
DEPARTMENT OF GUIDANCE & COUNSELING SERVICES  
HIGH SCHOOL COURSE CATALOG  
2015-2016**

**WLDZ5324 AP Spanish Literature and Culture 2.00 Yr**

**WLDZ5322 Chinese 5H/SAT 2.00 Yr**

**This course is designed for highly motivated students who are willing to accept the challenge of a rigorous academic curriculum to achieve the intermediate pre-advanced level of Chinese proficiency and to prepare for the Chinese Language and Culture SAT examination.**

**WLDZ5331 Chinese Daily Conversation 1.00 S**

**This course is an introduction to the oral of the Chinese Language. It will emphasize on listening, comprehension and speaking. This course will guide students to know basic Chinese words, sentences and phrases which is used in daily life. This course will also introduce Chinese culture through singing songs, videos and food.**

**WLDZ5330 Chinese Daily Conversation 2.50 S**

**This course is an introduction to the oral of the Chinese Language. It will emphasize on listening, comprehension and speaking. This course will guide students to know basic Chinese words, sentences and phrases which is used in daily life. This course will also introduce Chinese culture through singing songs, videos and food.**

**WLDZ5323 Conversational Spanish 1.00 S**

Elective

Conversational Spanish course provides a great way for beginners to learn Spanish, while enabling intermediate and advanced Spanish learners to enhance Spanish Conversation skills. You will acquire new vocabulary and learn how to use it in conversation.

**WLDZ5318 SAT II Spanish/DELE Diploma 2.00 Yr**

Elective

completed three consecutive years of Spanish with a grade of B or higher including Spanish IV-H or Spanish Heritage III.

SAT Subject Tests are a suite of tools designed to assess your academic readiness for college. This particular course will prepare students to be familiar with the format for the SAT II Spanish test by practicing with old tests and by concentrating in the listening and comprehension part of the exam. The course will be conducted in a fun and relaxed atmosphere, making the experience enjoyable and making it possible to master the rigors of the SAT II Spanish exam. Optional to earn the DELE Diploma.

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

**WLDZ5311 DMAE En Español I 2.00 Yr**

Elective

DMAE En Español is the elective class that produces a newspaper written completely in Spanish. Students in the elective have given EPSD the privilege of becoming the pioneer in this event in Bergen County. The primary target of the newspaper in Spanish is the Hispanic community in the city of Englewood, particularly those who do not speak English and who are not familiar with using the Internet. The newspaper serves to inform DMAE students' family members who are not able to be informed about the events, educational as well as recreational, that occur on our campus throughout the school year.

**WLDZ5312 Every Day French 1.00 S**

Elective

This class (conducted in English) is for any student who is interested in learning about French culture. You do not need to be taking French language classes to enroll. Learn about French food (and even get to try some!), music, art, history, modern society, and major cities. We will also learn about studying abroad in high school/college and practical travel tips that can be applied to visiting any country!

**WLDZ5316 Hispanic Art and Culture 2.00 Yr**

Elective

This full year elective is designed to develop a basic knowledge of the Hispanic culture, including Spain, South America, Central America and the Caribbean Islands. Investigate, have fun while learning and familiarize yourself with the world that we live in.

**WLDZ5314 Spanish Grammar Games 1.00 S**

Elective

This elective is a review of Spanish I grammar. Students review the gender of nouns, plural forms of nouns, definite and indefinite articles, regular and irregular verbs in the present tense, ser vs. estar, reflexives, the verb: "Hay," etc.

**WLDZ5319 Spanish Tutoring Center 1.00 S**

Elective

Spanish Tutoring Center reinforces the basic skills in the development of functional proficiency in listening, speaking, reading and writing Spanish. Following a communicative approach, this course enables students to use Spanish in real-life situations for different communicative purposes. A strong emphasis is placed on reading and speaking the target language as students interact in a variety of real situations using appropriate verbal and non-verbal communication strategies.

Physical Education and Health

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

PEDA1114 Physical Education 9 DM 5.00 Yr

This freshman three quarter course includes an introduction to basic motor skills and participation in individual and team sports including cross country, speedball, soccer, flag football, basketball, volleyball, floor hockey, weight training, softball, physical fitness and conditioning.

PEDA1124 Health Education 9 1.00 Q

Health Education is provided daily for one quarter giving attention to drugs, disease prevention, nutrition and physical changes that occur within the body during stages of puberty.

PEDA1314 Physical Education 9 4.00 Yr

This freshman three quarter course includes an introduction to basic motor skills and participation in individual and team sports including cross country, speedball, soccer, flag football, basketball, volleyball, floor hockey, weight training, softball, physical fitness and conditioning.

PEDA2114 Physical Education 10 DM 5.00 Yr

This sophomore three-quarter course is designed to offer students opportunities to develop interest and skill in a variety of physical activities. The individual activities aim to develop basic skills, knowledge of rules and to stimulate an interest in leisure time activities. Team activities aim to develop fundamental team skills and techniques.

PEDA2124 Health Education 10/Driver Education 1.00 Q

Driver Education is provided for one quarter. This course gives students an understanding of automobile indicators, controls and safety equipment. Students discuss driver strategies and emergency situations. Instruction also addresses current laws regarding driving under the influence of alcohol and illegal substances. The New Jersey Written Driver Examination is administered at the conclusion of the course.

PEDA2314 Physical Education 104.00 Yr

This sophomore three-quarter course is designed to offer students opportunities to develop interest and skill in a variety of physical activities. The individual activities aim to develop basic skills, knowledge of rules and to stimulate an interest in leisure time activities. Team activities aim to develop fundamental team skills and techniques.

PEDA3114 Physical Education 11 DM 5.00 Yr

This junior three-quarter course places an emphasis on refining skills, improving the knowledge and developing mental attitudes of the game through body movement. Students are provided opportunities to assess their fitness levels, to enjoy a productive stay in high school and to attain a more meaningful existence after high school with leisure time values.

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

PEDA3124 First Aid and Safety/Health Education 11 1.00 Q  
First Aid and Safety Education are provided daily for one quarter. Students gain an understanding of the immediate and temporary care given to an injured or ill person. Basic rules of self-help are provided to students, emphasizing crucial procedures for what should and should not be done in an emergency.

PEDA3314 Physical Education 114.00 Yr  
This junior three-quarter course places an emphasis on refining skills, improving the knowledge and developing mental attitudes of the game through body movement. Students are provided opportunities to assess their fitness levels, to enjoy a productive stay in high school and to attain a more meaningful existence after high school with leisure time values.

PEDA4114 Physical Education 12 DM 5.00 Yr  
The senior three-quarter course offers students a variety of activities. The classes are divided into three areas: lifetime sports, team sports and physical fitness. Lifetime sports incorporate a wide range of activities that students can use throughout the life span. Instructional units include fundamental skills, written tests, tournament play and motivating students to participate on their own. Team sports emphasize refining skills, strategy and rules of the game. Teamwork, cooperation and sportsmanship are highlighted. Physical fitness consists of individual fitness programs and individual evaluations. Students gain an understanding of fitness conditioning and its carry over value.

PEDA4124 Health Education 12/Family Life 1.00 Q  
All students participate in Family Life Education for one quarter. This program includes concepts of independent living, inter-personal relationships, healthy lifestyles and other aspects of decision making. Other areas covered are dating, prevention of acquaintance rape and sexual values. In addition, units on reproduction, birth control, childbirth, child abuse prevention and parenting are presented.

PEDA4314 Physical Education 124.00 Yr  
The senior three-quarter course offers students a variety of activities. The classes are divided into three areas: lifetime sports, team sports and physical fitness. Lifetime sports incorporate a wide range of activities that students can use throughout the life span. Instructional units include fundamental skills, written tests, tournament play and motivating students to participate on their own. Team sports emphasize refining skills, strategy and rules of the game. Teamwork, cooperation and sportsmanship are highlighted. Physical fitness consists of individual fitness programs and individual evaluations. Students gain an understanding of fitness conditioning and its carry over value.

Five-day Electives

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

PEDQ5110 TeenPEP 5.00 Yr

Juniors and Seniors; Interview and Selection

DMAE Teen PEP, a leadership/health education program designed by the The Center for Princeton Leadership, is a comprehensive sexual health program that utilizes peer to peer education to increase student knowledge, attitudes, skills, and behaviors associated with healthy decision making. Students will receive in depth training on a range of health issues and will facilitate ten workshops to the Freshman Class. Interested students must submit an application for consideration by the Teen PEP Stakeholder Team. The selection process consists of a personal interview, written statement of interest, and a letter of recommendation. Selected students are required to attend a weekend retreat. (Student expenses are paid in full by a grant from The Center of Princeton Leadership).

Two-day Electives

PEDZ6313 Latin Dance (Yr) 2.00 Yr

Elective

Latin Dance encourages students to explore and discover the dances of various Spanish-speaking countries in a meaningful way and enables students to express themselves through a non-verbal means of communication. This class gives students a comprehensive understanding of dance as they learn specific dances and create their own dances.

Special Programs/Courses

MSCA1114 AVID 09 5.00 Yr

Elective

AVID is a college preparatory program. The AVID program is for students who may not be familiar with the process of getting accepted into college. Students must maintain class attendance, an AVID binder with assignments/grade record sheets and daily notes, complete all homework and commit to at least two hours of homework each night. The goals include academic success in college preparatory courses, successful completion of college eligibility requirements, and enrollment in a four-year college or university after high school graduation

MSCA2114 AVID 10 5.00 Yr

Elective

AVID is a college preparatory program. The AVID program is for students who may not be familiar with the process of getting accepted into college. Students must maintain class attendance, an AVID binder with assignments/grade record sheets and daily notes, complete all homework and commit to at least two hours of homework each night. The goals include academic success in college preparatory courses, successful completion of



**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

college eligibility requirements, and enrollment in a four-year college or university after high school graduation

MSCA3114 AVID 11 5.00 Yr

Elective

AVID is a college preparatory program. The AVID program is for students who may not be familiar with the process of getting accepted into college. Students must maintain class attendance, an AVID binder with assignments/grade record sheets and daily notes, complete all homework and commit to at least two hours of homework each night. The goals include academic success in college preparatory courses, successful completion of college eligibility requirements, and enrollment in a four-year college or university after high school graduation

MSCA4114 AVID 12 5.00 Yr

Elective

AVID is a college preparatory program. The AVID program is for students who may not be familiar with the process of getting accepted into college. Students must maintain class attendance, an AVID binder with assignments/grade record sheets and daily notes, complete all homework and commit to at least two hours of homework each night. The goals include academic success in college preparatory courses, successful completion of college eligibility requirements, and enrollment in a four-year college or university after high school graduation

MSCA2119 Transition 5.00 Yr

MSCA1320 Introduction to Technology 2.00 Yr

Required Academy 9th Grade Elective

This is a year-long course and is a requirement for all freshmen. In the beginning of the course, students are involved in projects focused on students' presentation skills. Microsoft Word, Excel, and PowerPoint are used to accomplish this. Students are next involved in various web design projects ranging from business web sites to creating web sites for historical figures, biographies, public service announcements, and self-promotion. Students use HTML coding to create their initial sites to get a firm understanding of the basics and then move on to Macromedia Dream Weaver, which is web editing software. This is a good introduction to Web Design since the Internet is then used for presentations. Finally, students learn how to use Java Script and Flash to create more advanced web sites.

MSCA1330 Ethics 1.00 S

Required Elective Grade 9: One Semester

The 9th grade Ethics course is designed with a clear goal in mind: to ask students to consider themselves as individuals and as members of various communities and to enable them to make good decisions about how to function in those capacities. Through

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

opportunities for journal writing, research, discussion, reflection and collaborative projects, students gain an understanding of ethical behavior to put into practice in our school community. Some key questions that are examined in the course are “What if everyone did it?” “What if I was on the receiving end?” and “What kind of person do I want to be?” Human rights, business ethics, bioethics and plagiarism/cheating are some of the topics covered in the course.

MSCA3310 Gateway Seminar 1.00 S

Required Elective Grade 11: One Semester

During junior year, all students must attend, complete and pass this course as preparation for senior year and their Senior Experience/Internship. Students develop skills in workplace oral and written communication, resume writing and interviewing relative to their internship and the college process.

MSCA4310 Senior Experience 9.00 Yr

Elective: Full Year

Grade 12

Senior Experience extends the principle of hands-on learning beyond school walls. Its goal is to establish an interactive learning partnership with the professional community so that students may increase - in depth and scope - their knowledge, skills, and abilities in a selected area of study. In senior year, each Academy student has the opportunity to select an internship in his/her own particular area of interest. The student's Senior Experience is guided by an on-site mentor who is expected to take an active interest in the student's growth and development by guiding the student's learning process. Because this is a structured learning experience, a learning plan is developed collaboratively by student and mentor at the beginning of the internship to outline the scope of the internship, including goals and responsibilities.

MSCA4311 Senior Seminar 1.00 Q

Elective

Juniors and Seniors Preparing for Career Experiences and College

This course is designed to help students prepare for the college application process. Students develop skills regarding correspondence, resume writing and interviewing relative to work experiences and the college process.

MSCA5150 Paramus PM 15.00 Yr

Elective

MSCA5154 Paramus Tech AM 15.00 Yr

Elective

Shared Time Program

Five-day Electives

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

MSCQ4110 Senior Seminar (DM) 2.50 S

Elective

Grade 12

This course is designed to help students prepare for the post high school plans. Students develop skills regarding correspondence, resume writing and interviewing relative to work experiences and college applications. The course will also focus on essay writing and building a personal portfolio.

Art Electives

Five-day Electives

ARTA4111 AP Art History 5.00 Yr

Elective

Teacher recommendation

The full year AP Art History course engages students at the same level as an introductory college art history class. Students examine and critically analyze major forms of artistic expression from the past and the present from a variety of cultures. The course involves critical thinking and should develop an understanding and knowledge of diverse historical and cultural contexts of architecture, sculpture, painting and other media.

ARTQ1110 Beginning Art 2.50 S

Elective

Beginning Art is an entry level course which will introduce students to the elements and principles of design. Development of drawing skills and an examination of historical art movements are the foundation of the class. Students will be introduced to 20th century art history through the study of various art periods, artists, and their influence on modern art. They will develop and utilize a vocabulary of art terms that will enable them to describe, analyze, interpret, and assess artwork. They will explore a variety of media including pencil, mixed media, watercolor and tempera. Art making requires students to understand, explore, and apply various visual art media.

ARTQ2110 Beginning Drawing 2.50 S

Elective

This course is for the student who is interested in two-dimensional art and a vocabulary for understanding basic art concepts is developed. Students develop skills in the application of the elements and principles of design. Students will explore and gain an understanding of proportion, perspective and color theory.

ARTQ5110 Beginning Painting 2.50 S

Elective

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

This is a course for students interested in two-dimensional art and the exploration of color. Students experiment with various painting materials including poster, acrylic and watercolor paints. A major emphasis is placed on the recognition, appreciation and development of a personal style.

ARTQ3110 Ceramics 1 2.50 S  
Elective

This course offers students an opportunity to discover the fundamentals, principles, and techniques of design with clay. It introduces the student to the varied hand building and sculptural aspects of the clay medium. It exposes the student to aesthetic surface treatments, along with glazing procedures. The student also encounters the potter's wheel.

ARTQ3120 Ceramics 2 2.50 S  
Elective  
Ceramics I

This course researches combining construction methods, such as hand building/throw, mold/hand built and thrown, clay and other mediums. It engages students in an in-depth study of ceramic problem solving, dealing with hand building varied clay techniques, glazing, form and visual statements.

ARTQ6110 Fashion & Jewelry Design 2.50 S  
Elective

Available to 10th, 11th, and 12th graders

Course will allow students to design and Create clothing and jewelry. Students will also have the opportunity to research various careers in the fashion industry, and apply their works to what is happening in the industry today.

ARTQ1120 Intermediate Art 2.50 S  
Elective  
Beginning Art

Intermediate Art is a continuation of the skill development in Beginning Art and will include drawing, ceramics, painting, and relief printmaking. Using their foundation of knowledge from Art I, students will create artwork using a variety of media, such as tempera paint, watercolor, pen and ink, clay, linoleum blocks, mixed media, graphite, colored pencil and charcoal. Emphasis is placed on critique as a method of evaluating their own and other's artwork. Students will use art vocabulary to describe, analyze, interpret and assess the artwork. They will also concentrate on developing a portfolio of work for college entrance

ARTQ2120 Intermediate Drawing 2.50 S  
Elective  
Beginning Drawing

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

This course represents an opportunity for students who desire to further explore two-dimensional art. Students will engage in drawing assignments that broaden their understanding of basic art concepts and skills, stimulate expression, develop techniques and provide for concentrated exploration in many media. A major emphasis is placed on the recognition, appreciation and development of a personal style.

ARTQ4110 Materials & Design 1 2.50 S

Elective

Students explore the fundamentals of design techniques. Students combine their knowledge of art, design and techniques to advance to more complex three-dimensional projects.

ARTQ4120 Materials & Design 2 2.50 S

Elective

Materials & Design I

This course further explores the fundamental principles and the techniques used in creating three-dimensional art works. Students explore methods of combining past techniques and concepts and develop skills and pride in their workmanship.

ARTQ6120 Mural Work 2.50 S

Elective

Successful completion of a prior art course such as Drawing, Painting, or Material design. Available to 10th, 11th and 12th graders.

Course will give the students the opportunity to work in A CREATIVE problem solving setting. They will be broken into teams and challenged to come up with a design and location of a mural. The team will have to present their plan to administration to get permission to install, or paint their mural on site. The students will have the option of working in different mediums all tested in the classroom before installed on walls. This class will enable them to enhance the culture of the school visually.

ARTQ3130 Studio Ceramics 2.50 S

Elective

Ceramics 2

This course offers students an opportunity to incorporate and use all previous learned skills and techniques to develop their own personal ceramic curriculum. Pupils explore areas of clay that interest them.

ARTQ4130 Studio Materials & Design 2.50 S

Elective

Materials and Designs 2

This course may be taken for two years. Students explore their personal interest in the areas of craft-related projects through an individualized program. Each project follows a

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

program which consists of developing an assignment contract through the finishing procedures.

Two-day Electives

ARTZ4310 Art Exploration 1.00 S  
Elective

Students are introduced to a variety of media including collage, clay, printmaking and sculpture. Concepts learned include color theory, composition, and 3D design. This is a chance for students to experiment and explore art making processes that stretch far beyond drawing and painting. They will produce unique artworks while learning new techniques and methods along the way.

ARTZ4380 Ceramics 1.00 S  
Elective

This course offers students an opportunity to discover the fundamentals, principles and techniques of design with clay. It introduces the student to varied hand building and sculptural aspects of clay medium. It exposes the student to aesthetics of the clay medium and to aesthetic surface treatments, along with glazing procedures. The student also encounters the potter's wheel.

ARTZ1310 Drawing 1 1.00 S  
Elective

This course is for the student who is interested in two-dimensional art and a vocabulary for understanding basic art concepts is developed. Students develop skills in the application of the elements and principles of design. Students will explore and gain an understanding of proportion, perspective and color theory.

ARTZ1320 Drawing 2 1.00 S  
Elective  
Drawing I

This course represents an opportunity for students who desire to further explore two-dimensional art. Students will engage in drawing assignments that broaden their understanding of basic art concepts and skills, stimulate expression, develop techniques and provide for concentrated exploration in many media. A major emphasis is placed on the recognition, appreciation and development of a personal style.

ARTZ1330 Drawing 3 1.00 S  
Elective  
Drawing 2

This course represents an opportunity for students who desire to further explore two-dimensional art. Students will engage in drawing assignments that broaden their understanding of basic art concepts and skills, stimulate expression, develop techniques

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

and provide for concentrated exploration in many media. A major emphasis is placed on the recognition, appreciation and development of a personal style.

ARTZ4320 Editorial Illustration 1.00 S

Elective

Students create artworks that accompany a selection of written works like poetry, folk tales, children's books and newspaper or magazine articles. A major focus is on brainstorming, sketching, capturing a big idea and making a visual connection with the reader. Get a taste of what it's like to be a professional Illustrator; following art direction, working with printing specifications and at times having tight deadlines. Illustrations are worked in a variety of artistic styles that are studied throughout the trimester. Materials include but are not limited to drawing, painting, scratchboard and collage.

ARTZ4360 Fashion Trends 1.00 S

Elective

Students create a portfolio of work while learning about the design process including inspiration, trend boards, target customers, preliminary sketching and final drawings. Designs are created based on a series of challenges inspired by topics such as foreign countries, historic decades, food, nature, public figures and celebrities.

ARTZ4340 Junior/Senior Portfolio 1.00 S

Elective

This class is reserved for students planning to attend art school. An art portfolio is developed based on the specific requirements of the colleges the student is applying to. Art supplies are provided however the student is required to work on their portfolio outside of school as well. Learn how to present and discuss your artwork in an interview, write an artist's statement and build a portfolio of your best work so you can be confident and successful at achieving your dreams.

ARTZ2310 Painting 1 1.00 S

Elective

This is a course for students interested in two-dimensional art and the exploration of color. Students experiment with various painting materials including poster, acrylic and watercolor paints. A major emphasis is placed on the recognition, appreciation and development of a personal style.

ARTZ2320 Painting 2 1.00 S

Elective

Painting 1

This course represents an opportunity for students who desire to further explore two-dimensional art and the exploration of color. Students experiment with various painting

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

materials including poster, acrylic and watercolor paints. A major emphasis is placed on the recognition, appreciation and development of a personal style.

ARTZ2330    Painting 3      1.00    S

Elective

Painting 2

This course represents an opportunity for students who desire to further explore two-dimensional art and the exploration of color. Students experiment with various painting materials including poster, acrylic and watercolor paints. A major emphasis is placed on the recognition, appreciation and development of a personal style.

ARTZ4370    Pen and Ink      1.00    S

Elective

Students practice and apply a variety of pen and ink techniques like hatching, cross hatching, scribble, stippling and wash. Projects are designed to introduce students to concepts like value, composition, line quality and texture. Students create unique works of art while gaining inspiration from the variety of artists and styles that are introduced throughout the semester.

ARTZ3310    Portrait Art      1.00    S

Elective

What constitutes a portrait? Does it have to look like the person you are drawing or painting? Can it be symbolic or abstract? Does it have to be human? Students create a variety of portraits that stretch the boundaries of their imagination. Projects are 2D and 3D and explore a variety of materials like collage, printmaking, sculpture and clay.

ARTZ4350    Power Of Concept    1.00    S

Elective

Students explore the importance of the BIG IDEA behind a work of art. Projects focus on brainstorming and concept development with an emphasis on skill and technique. Projects range from drawing to book making and everything in between. Students will understand the importance of communicating a clear idea, connecting with their audience and staying focused on the big picture...all concepts that reach far beyond art class!

ARTZ3320    Print Making      1.00    S

Elective

Students explore techniques like mono print, linoleum block print, scratch foam and stamping. Students are introduced to a wide variety of printmaking tools and materials while focusing on line, texture composition and positive and negative space. A variety of themes and concepts will be introduced and applied to the different techniques while studying prints by a variety of artists.



**ENGLEWOOD PUBLIC SCHOOL DISTRICT  
DEPARTMENT OF GUIDANCE & COUNSELING SERVICES  
HIGH SCHOOL COURSE CATALOG  
2015-2016**

## **Music Electives**

### **Five-day Electives**

#### **MUSQ3311 AP Music Theory**

MUSQ1110 Chorus - 5 da 5.00 Yr  
Elective

The study of music through performance in chorus is designed to develop students' understanding and appreciation of music through practical skills and creative work. Students discover music as a source of enjoyment and personal satisfaction. Classical, Popular, Renaissance, Broadway, and Folk music are covered. Students learn music theory and history and how to balance and blend voices.

#### **MUSQ5214 Beginning Guitar 2.50 S**

MUSQ3110 Contemporary Choir 5.00 Yr  
Elective  
Audition

This ensemble sings a variety of gospel literature for mixed choir, from spirituals to contemporary gospel. Emphasis is placed on style, form, blend, intonation, independence of parts as well as accompanied and a capella singing. The ensemble is given the opportunity to showcase its work through various public performances at school and in the community.

MUSQ5110 Drumline 5.00 Yr  
Elective  
Marching Band

The study of traditional and modern literature for percussion ensemble and the drumline within the marching band. Course content includes emphasis on music reading, music theory, solo and ensemble playing. Members must be self-disciplined and agree to work as a team with other band members. School pride and community services are an important focus. Additional rehearsals and participation in concerts are required. Summer band camp is required.

MUSQ4330 Popular Music and MIDI 5.00 Yr  
Elective

Students learn about the genres in popular music from early Blues to Hip-Hop. Students receive instruction on how to use the MIDI lab as they examine each genre in depth. As

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

a culminating project, students create a one-hour simulated radio program centering on one genre.

Two-day Electives

**MUSZ5214 Beginning Guitar 2.00 S**

MUSZ4310 Applied Music 2.00 Yr  
Elective

Permission of Instructor

Applied Music is an open-ended course available to any student. Students may take lessons, focus on specific areas of music study or receive extra help in areas of performance. Students with prior experience can also work in the MIDI lab to create CD's. Space is limited due to the amount of individualized instruction.

MUSZ1310 Chorus 2.00 Yr

Elective

The study of music through performance in chorus is designed to develop students' understanding and appreciation of music through practical skills and creative work. Students discover music as a source of enjoyment and personal satisfaction. Classical, Popular, Renaissance, Broadway, and Folk music are covered. Students learn music theory and history and how to balance and blend voices.

MUSZ2320 Concert Band 2.00 Yr

Elective

Open to students who have had experience in band in middle school, this elective requires students to perform music of all types including contemporary band repertoire and arrangements of music by the masters. Pianists are welcome. The course runs a full year and requires students to participate in performances.

MUSZ2120 HIP CHORD Band 2.00 Yr

Elective

Co-requisite: Marching Band

This course is a concert band setting that studies and performs popular music compositions from the second half of the 20th century, with emphasis on rock, R&B, and traditional concert band repertoire. Development of basic musicianship and playing skills will be emphasized through performance in this band. Student involvement in concert and marching band performance activities will be part of the grading process for this course. Periodically there are special events, rehearsals or concerts during non-school hours.

MUSZ2330 Jazz Band 2.00 Yr

Elective

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

Concert Band, Audition

This course is open to the more experienced instrumentalists who are interested in performing music of this genre. The focus is on Swing, Blues, and Jazz-Rock. All members learn to improvise and have opportunities to solo with the band. Instruments that are part of Jazz Band are trumpets, trombones, saxophones, keyboard, drums, guitar, and bass guitar.

MUSZ4330 Popular Music and MIDI 1.00 S

Elective

Students learn about the genres in popular music from early Blues to Hip-Hop. Students receive instruction on how to use the MIDI lab as they examine each genre in depth. As a culminating project, students create a one-hour simulated radio program centering on one genre.

MUSZ1320 Select Vocal Ensemble 2.00 Yr

Elective

Chorus member, Audition

Join students in an advanced vocal ensemble which performs more difficult music in several styles, languages, and settings. Select Chorus members are encouraged to audition for county and regional choruses. Students in Select Chorus perform several times each year. Enrollment is by audition.

MUSZ2340 String Ensemble 2.00 Yr

Elective

Audition

This course is open to experienced orchestral string players who are interested in developing their musicianship in an ensemble setting. Many different genres of music will be studied including Baroque, Classical and Contemporary. Performances are a required part of this class.

Technology Electives

Five-day Electives

TECQ1110 Computer Graphics 1 5.00 Yr

Elective

This course teaches students to produce digital images quickly using the features of the Adobe Creative Suite (Adobe Illustrator, Adobe PhotoShop, Adobe InDesign, Adobe Dreamweaver, and Acrobat). Using simple and clear instructions, students are taken step by step through a number of projects from traditional print work to designing features for the web. Students must have a basic understanding of Mac OS X. Software: Adobe Creative Suite.

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

TECQ1120 Computer Graphics 2 5.00 Yr

Elective

Computer Graphics 1

This course will build upon skills learned in Computer Graphics I. Students must have a basic understanding of Mac OS X. Software: Adobe Creative Suite

TECQ1130 Advanced Graphics 5.00 Yr

Elective

Computer Graphics 2

This course will build upon skills learned in Computer Graphics II. It teaches students to produce complex digital images using multiple features of the Adobe Creative Suite (Adobe Illustrator, Adobe PhotoShop, Adobe InDesign, Adobe Dreamweaver, and Acrobat). Using clear instructions, students are taken step by step through a number of projects from traditional print work to designing features for the web. Students must have a fundamental understanding of Mac OS X. Software: Adobe Creative Suite.

TECQ5111 Digital Journalism 5.00 Yr

Elective

Explore the world of new journalism on the internet. Digital photography and videography will be stressed. The ultimate goal is to understand how to shoot, edit and store photos and how to plan, shoot and edit video reports. This will be a production class and all work will be presented on the school website. Programs such as Photoshop, I Photo and final cut will be utilized. This course should be offered cross campus.

TECQ5115 Digital Photography 1 5.00 Yr

Elective

The focus of this course is improving a student's composition and photography skills through critique, self critique, and online information. The course begins with the history of photography and leads to individual student projects around specific photography subjects. Student work is edited and used as a teaching tool. Students will learn basic and advanced skills for cataloging and manipulating digital and digitally scanned photographs using Picassa and PhotoShop. Topics include healing, cropping, color adjustment, lighting adjustment, masks, curves, the histogram, and high dynamic range compensation. Learning is self-directed and competency based. Fieldwork is required.

TECQ5112 Media Presentations 5.00 Yr

Elective

The course is set up to familiarize the students with the history and technique of newspaper and magazine writing and photography, e-zine creation, radio and television writing and production, film writing and advertising techniques. There is a strong emphasis on writing for these mediums and computer literacy. Production of a student magazine (The Oracle), radio and TV tapes, advertising storyboards and original film

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

scripts are also stressed. In addition, students are required to be reporters for the school newspaper. Students learn and use such computer applications as Word Processing, Desktop Publishing, Website and PowerPoint. Theory and proper implementation of the various forms of media are taught. Projects are assigned so that the students can utilize the technology that already exists in the school. This course is set up as an introductory course for the rest of the Communications and New Media Studies program.

**TECQ5113** Web Page Design 1 5.00 Yr  
Elective

Students learn to build intuitive, attractive and accessible web pages and post pages on a student created web site. Students become familiar with the DreamWeaver environment and create web pages by typing and formatting text, importing graphics, adding links, building tables, using frames and uploading files to a remote server. Students must have a basic understanding of Mac OS X. The course supports mastery of New Jersey Core Curriculum Content Standards for Technology Literacy 8.1 and 8.2. Software: Macromedia DreamWeaver, Photoshop, IPhoto, Flash

## **Two-day Electives**

**TECZ5314** Advanced Cyber Securities 2.00 Yr

**TECZ1310** Digital Design 1 1.00 S  
Elective

This course focuses on the development of the student's graphic design skills through the use of technology. Students learn how to use Adobe Photoshop, Adobe Illustrator, and Adobe In-Design to create products such as book covers, CD jackets, magazine layouts and posters. Students spend class time learning graphic design applications, viewing samples of good design, brainstorming ideas for good design, and designing and sharing designs with the class for critique.

**TECZ1320** Digital Design 2 1.00 S  
Elective

Digital Design I

Learn more advanced features of Photoshop – how to use masks and channels, the painting and editing tools, the pen and shapes tools and special effects. Students create advanced projects using Adobe Illustrator for drawing on the computer and Adobe In-Design for page layout.

**TECZ2310** Digital Photography 1 1.00 S  
Elective

The focus of this course is improving a student's composition and photography skills through critique, self critique, and online information. The course begins with the history

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

of photography and leads to individual student projects around specific photography subjects. Learning is self-directed and competency based. Fieldwork is required. Student work is edited and used as a teaching tool.

TECZ2320 Digital Photography 2 1.00 S

Elective

Digital Photography I

Learn basic and advanced skills for cataloging and manipulating digital and digitally scanned photographs using Picassa and PhotoShop. Topics include healing, cropping, color adjustment, lighting adjustment, masks, curves, the histogram, and high dynamic range compensation.

TECZ5311 Flash Animation 1.00 S

Elective

The Flash Animation elective focuses on advanced methods for creating interactive, animated presentations on the World Wide Web. Upon completion of this course, students will be able to create both presentations for entertainment and for presentation of projects for other course areas. Macromedia Flash will be used as the primary tool for achieving this. Specifically, this course covers the analogy between Microsoft Flash and the cartoon making industry, simple animations, combining animations to create complex effects, user interaction, telling 'stories' using this media, and the basics of Flash ActionScript programming.

Career path Electives

Allied Health Services Studies

CAHA1110 Intro to Allied Health 2.50 S

Elective

Sophomores or Juniors

This is a one semester elective for students who have interest in a career in the vast medical field. It teaches about different health professions and the foundation of health care in United States. The course will introduce the basics of Health, Health care system in USA, E-Health resources and finally touch on various professional fields (Dentistry, Nursing, Pharmacy etc) within the health care system. This course will involve active class discussion and participation. We will also try to get various Allied Health professionals to speak to the class. This will help to broaden the student's career choices after graduation.

CAHA3110 Introduction to Biotechnology 2.50 S

Elective

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

Intro to Allied Health

The course will offer definition and applications of biotechnology and will provide overview of common laboratory techniques used in the biotechnology industry. The course will also offer opportunities to read and discuss select bioethical issues. It will meet twice a week.

Communications and New Media Studies

Five-day Electives

CMCA3110 Advanced Digital Imaging 5.00 Yr  
Elective

Students will bring to this course a prior knowledge of the Adobe Creative Suite which was gained in the previous offerings. In this course students will work with Dreamweaver(x) which is a hybrid WYSIWYG and code-based web design and development program. The students in this class will be the developers and gatekeepers of the electronic school website.

CMCQ5112 Digital Imaging for New Media 5.00 Yr  
Elective

This course teaches students to produce digital images quickly using the features of the Adobe Creative Suite (Adobe Illustrator, Adobe PhotoShop, Adobe InDesign, Adobe Dreamweaver, and Acrobat). Using simple and clear instructions, students are taken step by step through a number of projects from traditional print work to designing features for the web. This course is taught in a lecture/lab format. The creation of varied projects will provide students with exposure to many of the tools available within the Adobe Creative Suite. The instructor will begin each section with a lecture/demo that will introduce the relevant theory. A lab tutorial will follow each lecture to provide hands-on experience to help reinforce the key concepts presented.

Performing Arts Studies

Performing Arts -Dance

Two-day Electives

CPDZ5310 Dance Workshop 2.00 Yr  
Elective

Concurrent with Raider Nation Step Squad(RNS)

This course offers group exploration of techniques slated to all areas of dance that include tap, jazz, modern, lyrical, and cultural.

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

CPDZ5320    Advanced Dance Workshop    2.00    Yr

Elective

Concurrent with Marching Band;Recommendation

This course further develops techniques related to all areas of dance that include tap, jazz, modern, lyrical, and cultural, with an emphasis on techniques related to Marching Band.

Five-day Electives

CPDQ5110    Dance Workshop    5.00    Yr

Elective

Concurrent with Raider Nation Step Squad(RNS)

This course offers group exploration of techniques slated to all areas of dance that include tap, jazz, modern, lyrical, and cultural.

CPDQ5120    Advanced Dance Workshop    5.00    Yr

Elective

Concurrent with Marching Band

This course further develops techniques related to all areas of dance that include tap, jazz, modern, lyrical, and cultural, with an emphasis on techniques related to Marching Band.

CPDQ1110    Art Of Movement    2.50    S

Elective

This course orients students to the field of dance as an academic discipline, profession, and art form. This course provides the student with information and processes of inquiry so as to facilitate their own decision- making. Topics to be covered include: an introduction to dance as an art form; dance history; dance as a product of culture; the relationship of dance technique to the overall field; and strategies for effective learning, professional engagement, and longevity in the discipline. Participation in after-school rehearsals and performances is expected.

Performing Arts -Theatre

Five-day Electives

CPTQ5110    Acting 5.00    Yr

Elective

Students are immersed in the study of acting and theatre. Here, students will learn the ABC's of acting technique in a no pressure environment as well as the historical background and social significance of Theatre. Through exercises, cold readings, and analysis of scenes, students will learn creative strategies for tapping into their emotional resources deep within themselves. These strategies will be used when analyzing and



**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

developing a character for the stage. In each consecutive level, students will focus on a different aspect of Theatre. This maturing process will begin slowly from the beginning actor to students with an understanding and appreciation for all the elements of theatrical production. The components of a successful theatrical production include: actors, script/playwriting, directors, lighting, stage crew and costume design. Special emphasis also will be placed on the theatre's connection to understanding English and great works of literature. In addition, consideration will be directed toward interpreting poetry and the classic works of Shakespeare and famous American playwrights. On-camera acting techniques for television and film and careers in the arts also are topics explored in this course. In a workshop style class, students are evaluated on both individual and group performance and effort.

**Academy Concentrations**

**Biomedicine Academy**

FBMA1310 Science Safety, Careers and Bioengineering Honors 2.00 Yr  
Academy Core 9th Grade

This one-year seminar course will introduce students to the biomedical field with respect to the course content studies, the laboratory skills, and the career path available. Each trimester will focus on a different aspect. Trimester one will engage the students in the application and manipulation of laboratory equipment and science safety concerns through experimentation, students will develop skills in handling tools in the biomedical field. In trimester two, students will explore several facets of biomedical engineering. The use of existing technologies to design and build devices in a biological context will introduce students to basic human anatomy. Trimester three will incorporate medical professionals from the community to provide students with the experiences in clinical practice. Career focus will encompass the scientific research sector, pharmacy, medicine, dentistry, and the allied healthcare professions.

FBMA2310 Experimental Design & Epidemiology Hon 2.00 S  
Science Safety, Careers and Bioengineering

This course is the study of factors affecting the health and illness of populations and serves as the foundation for determining interventions made in the interest of public health and preventive medicine. The work of epidemiologists ranges from outbreak investigation to study design, data collection and analysis including the development of statistical models to test hypotheses, and the written submission of results to peer reviewed journals.

FBMA3310 Medical Terminology Honors 2.00 Yr

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

Epidemiology and Experimental Design

This course enables students to earn three college credits from Bergen Community College. In order to receive a Bergen Community College transcript, students must successfully pass the midterm, and the final examination for this course. The topics that are found in the study of Medical Terminology encompass aspects of grammar (the study of prefixes, suffixes, and word roots), as well as the terminology associated with each system in the human body. Students are exposed to terminology found in the practice of medicine through lecture, textbook student-activity worksheets, and readings from current scientific publications. The readings from journals and magazines allow the student to see, hear, and use the terminology in context for greater retention. The goal is to familiarize students with the Language of Medicine so that they may converse with healthcare professionals in their internships in a knowledgeable fashion. Students may also improve their overall reading comprehension as they learn the meaning of Latin and Greek words that are part of our current language.

FBMA4310 Pharmacology&Law and Medical Ethics Hon 2.00 S  
Medical Terminology

This course introduces students to major concepts related to emerging and re-emerging infectious diseases and how the body defends itself and to familiarize students with the modern pharmaceuticals – drugs engineered to improve our lives. The improvement of personal and public health is the central mission of the National Institutes of Health, the world's largest organization devoted to biomedical research and a major contributor to the curriculum of this course.

Four/Five-day Electives(as fifth year science course)

SCIA4342 Anatomy and Physiology Dual Enr Honors 6.00 Yr  
Elective

Biology, Chemistry, Physics (Placement test required for non-AE students, teacher recommendation)

This year-long elective, meeting five periods per week, is part of the Healthcare Occupations Partnership Program with Bergen Community College. Students accepted into the program have preference in admission to the course, but juniors and seniors are welcome if space is available. This course examines the human body from a systems approach and is a laboratory-based class. Animal dissections are an integral part of the course as well as didactic lectures. It is designed to prepare students for further study in the health care field and to earn college credits while still in high school. In order to earn college credits, all students must successfully complete the final examination as prescribed by the college. In addition, those students that are not part of the Healthcare Occupations Partnership Program are required to pay a fee to the college to receive a transcript.

SCIA2311 AP Biology 6.00 Yr

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

Biology, Placement Assignment, Teacher recommendation.

This course may be elected by students in their senior year. The AP Biology course is designed to be the equivalent of a two-semester college introductory biology course usually taken by biology majors during their first year. A prescribed curriculum that prepares students for testing encompasses seven major theses in biology that are all tied together by the unifying concept of evolution. Laboratory exercises and experiments are an integral part of the course and require that the students be able to formulate hypotheses and draw conclusions from their work. Extensive readings on a college level from texts and supplemental materials are undertaken to properly prepare the student for the culminating examination. Students are required to take the AP Exam in May.

SCIA3311 AP Chemistry 6.00 Yr

Chemistry, Placement Assignment, Teacher recommendation.

This course is a systematic review of chemistry designed for the student with a strong background who needs a review and some additional practice in problem solving. It helps students who want to improve their preparation for college chemistry as well as those who desire advanced placement. Topics covered include gas laws and stoichiometry, chemical reactions, atomic theory, structure and bonding, equilibrium, acids and bases, thermodynamic, kinetics, and electrochemistry. Students are required to take the AP Exam in May.

SCIA4311 AP Environ Science 6.00 Yr

grade of "B" or higher in Biology and Chemistry, Placement Assignment, teacher recommendation.

This full year AP science course is designed to be the equivalent of a one-trimester college laboratory science course in Environmental Science. This course discusses the environment from an ecosystems approach, but focuses on the impact that human civilization has had on the natural world. Students are required to think and write independently and to perform a series of hands-on laboratory experiences. Extensive reading on a college level from texts and supplemental materials is undertaken to properly prepare students for the required AP examination. Students are required to take the AP Exam in May.

### **Two-day Electives**

SCIZ5321 Chemical Engineering 1.00 S

Elective

Chemistry

As an introduction to the career track of the chemical engineer, this course will utilize the background knowledge students have gained from chemistry and combine it with the fundamentals of engineering. What does a chemical engineer do? This career can have many applications in industry such as designing chemical plant equipment and devising

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

processes for manufacturing products. The three major areas that will be addressed during this semester course are the thermodynamics of reactions (such as fuels), the separation of materials by distillation/adsorption/ chromatography, and biochemical processes that are related to the development of pharmaceuticals. This course pulls together the related areas of science, technology, and engineering.

FBMZ2320 Experimental Design 1.00 S  
Elective

In this course, students use laboratory skills as they design and run their own experiment. Each student formulates a hypothesis, designs an experiment to test that hypothesis, and runs the experiment. Data collection and a final laboratory report are generated during the trimester. Students choose their own area of interest, and this may include some limited live animal use. Students have an opportunity to enter their project into a science fair competition.

SCIZ5312 Forensic Science 1.00 S  
Elective

This elective begins with training in deductive reasoning of crime scene evidence. The types of evidence available at a crime scene can be biological or physical. Tissue and bone samples, bodily fluids, fingerprints, footprints, and DNA are examples of some biological samples. Other forms of physical analysis are fibers and hair, soil analysis, tool marks, ballistic data, and chemical content. The study of Forensic Anthropology uses science and math to determine the identity of a missing person. Students investigate famous crimes in history and review the forensic evidence to determine, using 21st century techniques, whether or not the original jury findings were correct.

SCIZ5322 Independent Science Research 1.00 S  
Elective

Experimental Design

Using the skills learned in the prerequisite course, students will identify a research project and then proceed to undertake the independent research under the guidance of a mentor-teacher. Students must meet deadlines for entry into one of the acceptable competitions and be present at the competitions. Students accept the responsibility of providing some financial resources to obtain required materials for the research and to offset travel costs incurred when attending competitive events.

FBMZ4320 Law and Medical Ethics 1.00 S  
Elective

This course is concerned with the ethics and philosophical implications of certain biological and medical procedures, technologies, and treatments. This includes issues pertaining to organ transplant, genetic engineering, care of the terminally ill, and advances in the fields of genetic engineering and drug research. During this senior level seminar course, students draw on their understanding of natural science (biology,

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

chemistry, and physics) to discuss and determine the potential impact on society of innovations and discoveries in biomedicine.

SCIZ5313 Marine Biology 1.00 S  
Elective

Marine Biology teaches the student about the complexity and diversity of life found in the oceans. Under the waves live the great pelagics of the deep like whales, tiger sharks, and Manta Rays. Students explore the diversity of a coral reef, the lethality of a blue octopus, the oddities of a horseshoe crab, and the power of a wave.

FPRZ5312 Medibotics 1.00 S  
Elective

The New Jersey Institute of Technology (NJIT) has established a program where high school teachers are trained to integrate the topics of medicine, robotics, and information technology in a course offered to high school students. The activities for Medibotics utilize the software programming and design of robots from kits by LEGO NXT Mindstorm. This is a one-trimester elective aimed at students in the Pre-Engineering, Information Systems, and Biomedicine Academies. Students will develop a brief understanding of a human body system and then build a robot that will perform a simulated 'surgery' related to that body system. This course is designed to develop reasoning skills and problem-solving techniques more than specific course content. It is cross-disciplinary and provides opportunities for the kinesthetic and visual learners.

SCIZ5315 Microbiology 1.00 S  
Elective

The course is designed to introduce students to the world of microbes. Attention is given to the great diversity of microorganisms, beneficial as well as pathogenic bacteria. Students explore how bacteria and viruses multiply causing disease in the process. Current issues in microbiology are also investigated such as emerging viruses, bio-terror, and the problems our healthcare system faces in light of these events.

SCIZ5316 Pharmacology 1.00 S  
Elective

Pharmacology has two objectives: to introduce students to major concepts related to emerging and re-emerging infectious diseases and how the body defends itself, and to familiarize students with the modern pharmaceuticals – drugs engineered to improve our lives. The improvement of personal and public health is the central mission of the National Institutes of Health, the world's largest organization devoted to biomedical research, and a major contributor to the curriculum of this course.

SCIZ5318 Virology 1.00 S  
Elective

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

In this class students examine how viruses replicate and infect their host. Students explore the scientific struggle to conquer, analyze and understand viruses and the diseases they cause. We will discover how scientists can utilize viral particles to treat other diseases while investigating epidemics caused by viruses such as HIV and influenza. It is our goal by the end of this class to have a better understanding of viruses, their mechanism of action, and how to protect ourselves from infections, while intriguing students to learn more about the viral world around us.

SCIZ5319    Zoology            1.00    S  
Elective

The objective of this course is to give students an overview of the great diversity that exists within the animal kingdom. Focus is on evolutionary relationships among the different animal phyla and how each group has successfully adapted to a particular environment. To enhance understanding, students read, view videotapes, handle and examine live specimens, and perform dissections.

## **Finance Academy**

FFIA1310    Introduction to Business Honors      2.00    Yr  
Academy Core 9th Grade

This course introduces students to the different forms of businesses, how they are organized, and how they operate in a free-market economy. The relationship between the primary functional areas of management, operations, marketing, and finance as they relate to the success and viability of a business is studied. Regular discussion of current events in business, banking, and investing will challenge students to analyze news and take a stand on critical issues while developing critical thinking and awareness of the world around them.

FFIA2310    Financial Accounting Honors 2.00    Yr  
Introduction to Business

Financial Accounting is a full-year course where students learn the fundamentals of accounting procedures and the importance of accounting to a successful business. Details of the accounting cycle and how transactions affect the financial records of the business are applied in realistic business settings. Students learn to prepare and examine the four fundamental business statements: Balance Sheet, Income Statement, Statement of Cash Flows, and the Owner's or Stockholders' Equity. Emphasis is placed on how these general purpose financial statements communicate information about the performance and position of a business to users external to management

FFIA3310    Marketing Honors      2.00    Yr  
Financial Accounting

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

This course is an introduction to business marketing. It is intended for seniors in the Finance Academy. It covers the basics of business marketing: advertising, sales, pricing, product definition, and market research. It also covers topics such as product differentiation, product positioning and market segmentation.

FFIA4310     International Business 2.00     Yr  
Marketing Honors

International Business and Marketing students examine the implications and challenges of operating a business in a global economy. Topics covered in this course include the principles of exporting and importing goods and services, foreign and domestic trade controls, the role of foreign governments in trade, currency exchange rates, and regional trade pacts. In addition, cross-cultural differences and their influence on business practices and product marketing are examined. Finally, the role of the Internet in trading in an international environment is explored.

Two-day Electives

FFIZ5310     Banking and Financial Services     1.00     S  
Elective

This elective provides a fundamental background on the banking system, opening and using a checking account, writing and receiving checks, reconciling a checking account, and other ways of making payments. Students are given the opportunity to use the Internet to explore various online banking services.

FFIZ5318     Career Focused Management Seminar     1.00     S  
Elective

This course is open to students from all five academies. The course curriculum is cross-disciplinary; it addresses business management issues relevant to BioMedicine, Finance, Technology, Law/Public Safety, and Pre-engineering.

FFIZ5316     Fundamentals of Stock Market Investing     1.00     S  
Elective

This elective shows students how to invest their personal finances in the stock market now and in the future. Increasing resources is an important part of achieving personal financial goals. The course discusses the fundamental aspects of investing in stocks, bonds, and mutual funds. Students are given the opportunity to use the Internet to set up and manage a stock portfolio and research companies before investing.

FFIZ5311     Introduction to U.S. Income Taxes     1.00     S  
Elective

This elective discusses the importance of taxes for personal financial planning. Effective tax planning involves finding out how current tax laws affect the student. Calculating their adjusted gross income enables them to compute their taxable income. Knowing the

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

appropriate tax form to use and how to complete it correctly enables students to file their taxes efficiently. Choosing appropriate tax strategies for financial and personal situations can maximize earnings and reduce tax liability.

Information Systems Academy

FISA1310 IT Essentials Honors 2.00 Yr  
Academy Core-I 9th Grade

In this course, students learn the PC from the inside out. Introduction to Networking covers the inner construction of PC's, operating systems and printers. Preventative maintenance and trouble shooting strategies are discussed for both hardware and software. At the end of the course, students are qualified for A+ certification and are able to build and troubleshoot their own PC's.

FISA2310 Advanced Network Systems Honors 2.00 Yr  
IT Essentials Honors (or Introduction to Networking)

Students continue to build on the skills and knowledge obtained in Introduction to Networking. Using Cisco equipment and technology, they learn about routing, switching, network addressing, network wiring and construction, and configuring routers, switches, and gateways. Another goal of the course is to equip the student to pass either the Network + or CCENT certification.

FISA3310 Programming in Java Honors 2.00 Yr  
Advanced Network Systems

This is an introduction to procedural and object-oriented programming using the Java language. Students complete a variety of projects in which they produce functioning applications. This course introduces concepts which can help prepare students for the AP Computer Science test.

FISA4310 Internet Security Honors 2.00 Yr  
Programming in Java

Students will explore the meaning of security as it applies to all aspects of the computing experience. The problem of computing security is more than just a look at virus protection and prevention. Today, security in computing includes a full range of real time issues for both home and business users, which range from the infrastructure requirements to the everyday practice of identity protection. It extends in this modern world to the use of "smart phones" on the World Wide Web and even to devices like network enabled personal and security cameras. Students will use a combination of problem based exploration and project based "real world" laboratories to explore most facets of the computing security problem. Real world examples will be used and students will be required to find solutions to today's problems while considering tomorrow's computing needs.



**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

## **Two-day Electives**

FISZ5324    Adobe Illustrator    1.00    S  
Elective

This course is a vector-based application that is widely used in illustration, technical drawing, interactive media, animation, special effects and motion graphics. Through hands-on exercises and projects, this course will reveal the capabilities of Illustrator. Control of bezier curves, use of color and gradients, and typography will be discussed in detail. Students will gain a working knowledge of Illustrator, and learn how and why Illustrator files are exported into other applications such as Adobe Photoshop and InDesign.

TECZ5312    Advanced Flash Animation    1.00    s  
Elective

Flash Animation or Portfolio

Students will complete several projects requiring the compilation of advanced animation techniques. Major projects will include an interactive movie and an interactive game program that will model interactions with the real world. The desired outcome of course completion is to be able to represent content from other courses/content areas in a complete, animated form.

FISZ5310    Digital Web Creation    1.00    S  
Elective

Introduction to Information Technology

This course involves the design and building of advanced web sites. It includes the use of Java Script, Flash, PHP, and the building/administration of a web host. Students work in groups on various aspects of the design and creation of web sites.

TECZ1310    Digital Design 1    1.00    S  
Elective

This course focuses on the development of the student's graphic design skills through the use of technology. Students learn how to use Adobe Photoshop, Adobe Illustrator, and Adobe In-Design to create products such as book covers, CD jackets, magazine layouts and posters. Students spend class time learning graphic design applications, viewing samples of good design, brainstorming ideas for good design, and designing and sharing designs with the class for critique.

TECZ1320    Digital Design 2    1.00    S  
Elective  
Digital Design I

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

Learn more advanced features of Photoshop – how to use masks and channels, the painting and editing tools, the pen and shapes tools and special effects. Students create advanced projects using Adobe Illustrator for drawing on the computer and Adobe In-Design for page layout.

TECZ5311 Flash Animation 1.00 S  
Elective

The Flash Animation elective focuses on advanced methods for creating interactive, animated presentations on the World Wide Web. Upon completion of this course, students will be able to create both presentations for entertainment and for presentation of projects for other course areas. Macromedia Flash will be used as the primary tool for achieving this. Specifically, this course covers the analogy between Microsoft Flash and the cartoon making industry, simple animations, combining animations to create complex effects, user interaction, telling 'stories' using this media, and the basics of Flash ActionScript programming.

FISZ5317 Introduction to Databases and SQL 1.00 S  
Elective

Microsoft Access is used as a tool to learn about databases. Students learn how databases organize their data. They investigate how tables, forms, queries, and reports are all used to create, update, ask questions about, and display data. This information is also used to see how web sites use databases in order to display information that changes.

FISZ5319 Introduction to Programming using C++ 1.00 S  
Elective

C++ is a widely used programming language that is the underlying structure for most operating systems. For example Microsoft Windows, most flavors of Linux, and the MAC OSx are programmed in it. Students will explore simple C++ programming projects while learning the concepts of Object Oriented Programming languages.

FPRZ5312 Medibotics 1.00 S  
Elective

The New Jersey Institute of Technology (NJIT) has established a program where high school teachers are trained to integrate the topics of medicine, robotics, and information technology in a course offered to high school students. The activities for Medibotics utilize the software programming and design of robots from kits by LEGO NXT Mindstorm. This is a one-trimester elective aimed at students in the Pre-Engineering, Information Systems, and Biomedicine Academies. Students will develop a brief understanding of a human body system and then build a robot that will perform a simulated 'surgery' related to that body system. This course is designed to develop reasoning skills and problem-solving techniques more than specific course content. It is cross-disciplinary and provides opportunities for the kinesthetic and visual learners.

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

FISZ5318      Programming Concepts for Robotics 1.00    S

Elective

Must be IS Academy Student

The age of Robotics is growing closer and students should become aware of what is involved in creating controllable and autonomous robots. Students, using a standardized platform, will learn to address sensors, control motors, and develop robots that can meet goals and do work. Programming logic and a 4gl language will be taught.

SSCZ8312      The History of Innovation      1.00    S

Elective

The course will focus on advancements of science and in technology from the Stone Age until the modern world. Students will examine the importance of tool building, the extraction of use of metals, and the science and technology of ancient civilizations. Moving on to the Renaissance and emergence of the fields of calculus, physics, and astronomy, students will explore the discoveries that shaped European and American culture. Innovations in life sciences and medicine will include the germ theory, x-rays, antibiotics, and vaccines. Lastly the modern inventions including the combustion engine, nuclear energy, computers, the Internet, and the development of the microchip will be studied.

FISZ5314      Video Production      1.00    S

Elective

The course covers the ins and outs of creating a video production including scripting, storyboarding, the concept of continuity, composition, sound and lighting values, video capture, editing including adding effects, transitions, and titles, and creating a DVD or Video CD for display. Each trimester, a different theme is chosen and students are expected to create a video for that theme. Themes include, Diversity Day, Make a Music Video, News Journalism and Academy Awards. Trimester 1 is general fiction. Trimester 2 is oriented toward Diversity day, etc. Students are allowed some flexibility in their production.

FISZ5316      Video Production 2      1.00    S

Elective

Interested in movie making? Want to take your skills to the next level? Video Production 2 focuses on the process of putting together a production from the original idea, to the shoot, to post production editing, and finally to deliverable media. Students will work with modern dSLRs designed with video in mind. Topics covered include the vocabulary of the shoot, recording the sound, bokeh (use of depth of field), lighting, and the difference between recording for the web and recording for TV or the theater. Students will edit with professional level software and effects. There will be at least two major projects during the semester. One of the students choosing and one of the instructors. If your interest is more than just creating video clips then Video Production 2 is for you!

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

FISZ5315 Visual Basic 1.00 S  
Elective

This elective teaches the fundamentals of computer programming and the software design and development process using tools that are available on most computers today. The course is divided into 3 parts; learning about the programming, learning about software development, and applying the first two to create a unique program. The final project for this course will vary from year to year, but usually involves implementing a strategy-based game. In past classes, some students have specified their own final project.

### **Law and Public Safety Academy**

FLPA1310 Intro to Law:The Importc of Law in Everyday Life Honors 2.00 Yr  
Academy Core 9th Grade

This course is required for Law and Public Safety students. Students gain a comprehensive understanding of our system of law and advocacy and the use of law as a tool for addressing social issues and resolving disputes. Topics covered include the organization of the federal and state court system, civil and criminal law and the trial process.

FLPA2310 Criminal Law Honors 2.00 Yr  
Introduction to Law

In this course, students explore the nature of crime comparing poverty crimes and crimes against the person. Students will also look at criminal procedure including investigation, accusation, trial, verdict and sentencing for a crime. In addition, students examine the issues of fairness, security and rights in a free society. Students research and create projects which analyze current debates about criminal law in modern American society.

FLPA3310 Constitutional Law Honors 2.00 Yr  
Criminal Law, Juniors and Seniors

This course begins with an overview of the Constitution and how the American legal system works. Students look at the work of the Supreme Court by investigating why the Court takes certain cases and not others. While a wide range of cases are examined, the course focuses on cases of particular interest to high school students, including censorship of high school papers, drug use, drug testing, desegregation, religious prayer in school, hate speech, privacy and responsibility, poverty and inequality in school financing, and freedom of speech. Students analyze Court decisions, interpreting the words used and weighing the merits of the majority and dissenting opinions. Finally, students learn about the impact of the Court's cases and how the impact has changed over time.

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

FLPA4310 Issues in Law and Public Policy Honors 2.00 Yr  
Constitutional Law, Juniors and Seniors

In this full year course, students examine contemporary social, economic and cultural issues and the development of public policies to address them. Students analyze the roles of the legal system and public and private actors in the development and implementation of policy initiatives. Students research key issues and analyze the effectiveness of existing policies and proposed policy initiatives.

Four/Five-day Electives

SSCA4311 AP Government 5.00 Yr  
Elective

Placement assignment, teacher recommendation

This yearlong college-level course prepares students to take two AP Exams: United States Government and Comparative Government. This course is designed to teach students to compare and contrast and critically analyze important concepts in both U.S. and comparative politics through an in-depth study of American government and politics and the study of six core countries from AP Comparative Government (Britain, Mexico, Nigeria, Iran, Russia and China) as well as Egypt, Haiti, Japan and India. This course is a college-level course and is rigorous and demanding with significant reading in-class and for homework. Additionally, students will continually analyze current domestic and international events throughout the school year to put what they are learning in context of the present and near future.

**SSCA4323 Criminal Justice Dual Enrollment 5.00 Yr**

**Two-day Electives**

ENGZ9314 Career Communications: Technical Writing 1.00 S  
Elective

In this course students differentiate academic and technical writing; identify the components of technical writing as found in abstracts, summaries, mechanical descriptions, memos, letters and reports; and use that information to practice technical writing appropriate to their career focus area.

SCIZ5312 Forensic Science 1.00 S  
Elective

This elective begins with training in deductive reasoning of crime scene evidence. The types of evidence available at a crime scene can be biological or physical. Tissue and bone samples, bodily fluids, fingerprints, footprints, and DNA are examples of some

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

biological samples. Other forms of physical analysis are fibers and hair, soil analysis, tool marks, ballistic data, and chemical content. The study of Forensic Anthropology uses science and math to determine the identity of a missing person. Students investigate famous crimes in history and review the forensic evidence to determine, using 21st century techniques, whether or not the original jury findings were correct.

FLPZ5311 Juvenile Justice 1.00 S  
Elective

This course provides an overview of the juvenile justice system in the United States. Students examine a number of issues, including the history of the juvenile justice system, juvenile crime, the differences between the juvenile and adult systems and current issues in juvenile justice including the increasing trend to treat juveniles as adults and racial disparities in the treatment of juveniles.

FBMZ4320 Law and Medical Ethics 1.00 S  
Elective

Medical Terminology

This course is concerned with the ethics and philosophical implications of certain biological and medical procedures, technologies, and treatments. This includes issues pertaining to organ transplant, genetic engineering, care of the terminally ill, and advances in the fields of genetic engineering and drug research. During this senior level seminar course, students draw on their understanding of natural science (biology, chemistry, and physics) to discuss and determine the potential impact on society of innovations and discoveries in biomedicine.

FLPZ5319 Law and Order 1.00 S  
Elective

In this class, students will have the opportunity to examine the criminal justice system through the lens of the popular television series. The class will begin with an overview of the criminal justice with particular attention to investigations, arrest the prosecutions. After students have learned key concepts of criminal law, they will evaluate their depiction on television with particular attention to the differences between fact and fiction.

ENGZ9313 Law, Literature and Society 1.00 S  
Elective

In this course students examine the nature of law and social justice through the lens of literature. Students read works such as Antigone, A Lesson Before Dying, The Trial and Chronicle of a Death Foretold.

FLPZ5323 Model UN – Africa, Asia and the Middle East 1.00 S  
Elective

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

This elective course offers students interested in international relations, war/peace, the environment, human rights, and basic human and economic freedoms, the opportunity to become members of the Academies @ Englewood Model United Nations Team. Students learn about the United Nations structure, organization, purpose and impact on a changing world. The course consists of learning about the causes, conditions and effects of warfare, poverty, oppression, illiteracy and the denial of human rights within nations and regions of the world, and the ability and willingness of the agencies of the United Nations to successfully respond to those conditions. Finding solutions to those problems is the responsibility of individual students or teams.

FLPZ5313      Model UN N America, Cent America, S America and Europe      1.00  
S

Elective

This elective course offers students interested in international relations, war/peace, the environment, human rights, and basic human and economic freedoms, the opportunity to become members of the Academies @ Englewood Model United Nations Team. Students learn about the United Nations structure, organization, purpose and impact on a changing world. The course consists of learning about the causes, conditions and effects of warfare, poverty, oppression, illiteracy and the denial of human rights within nations and regions of the world, and the ability and willingness of the agencies of the United Nations to successfully respond to those conditions. Finding solutions to those problems is the responsibility of individual students or teams.

FLPZ5321      Of Codes & Crowns: Devel of Law...      1.00      S

Elective

This course is focused on the development of law. Beginning with ancient societies and progressing to the Age of Enlightenment, there will be an examination of how law was implemented and developed in different regions. Students will examine Hammurabi's harsh yet thorough law code, blood feud in Ancient Greece, the development of Roman Law, an examination of the English justice system (trial by jury), and the trial of Galileo (science vs. the Church). In addition, there will be a focus on Islamic and Judaic law and their similarities and difference.

SSCZ7311      The Supreme Court      1.00      S

Elective

In this course students interpret the meaning of the United States Constitution. Students analyze cases and their impact on society through reading, discussion and critical writing. Particular emphasis is placed on legal issues involving First, Fourth, Fifth, Sixth, Eighth and Fourteenth Amendments to the United States Constitution. Students are required to write briefs of landmark Supreme Court cases. Discussions, projects and activities guide students as they analyze and evaluate Supreme Court decisions.

**FLPZ5320      International Relations      1.00      S**

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

**Elective**

**Pre-Engineering Academy**

FPRA1310 Intro to Engineering Design Honors 2.00 Yr  
Academy Core 9th Grade

This course begins with the concept of developing a computer-generated model of an object that is already in 3-D. The model is created and observed from many different viewpoints: animated, textured, highlighted, and dimensions. Students learn to create, control, and use this new and powerful environment.

FPRA2310 Computer Integrated Manufacturing Honors 2.00 Yr

Students learn the fundamentals of object construction, the creation of working machines, robotics and automated systems, and the rationale, components and applications of Computer Integrated Manufacturing.

FPRA3310 Principles in Engineering Honors 2.00 Yr  
Computer Integrated Manufacturing

This course helps students understand the field of engineering and engineering technology. Through application of theory and hands-on experiences, students gain first-hand knowledge of engineering systems, mechanical design applications, materials testing, structural and statistical analysis, remote control systems and dynamics. Students explore various technology systems and manufacturing processes to learn how engineers and technicians use math, science, and technology to solve everyday engineering problems to benefit people.

FPRA4310 Engineering Design and Development Honors 2.00 Yr  
Principles in Engineering

Students in this course work in teams to research an open-ended engineering problem and design a creative solution to it. A detailed journal containing all designs, experiments, procedures and sketches is kept by each team. Progress reports are also submitted at various times detailing the team's current point of development. At the end of the course, each team submits a research paper and a working prototype of its unique solution to the original problem. Each group is required to defend what it has learned with an oral presentation before an outside panel.

**Four/Five-day Electives**

MTHA4311 AP Calculus AB 5.00 Yr



**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

Pre Calculus, Placement Test, Teacher recommendation

The Advanced Placement Calculus AB Course covers the equivalent amount of material in a one-semester college calculus course. The topics covered include the limits of functions, differential calculus, integrals and differential equations. Students enrolled must take the AP calculus AB Exam in May.

SCIA4321 AP Physics 6.00 Yr

Physics, Placement Assignment, Teacher recommendation.

This course provides the students with an opportunity either to have an accelerated college program or to meet a basic science requirement in college; in either case the student's college program may be enriched. This course matches a full long college level survey course sequence that uses algebra and trigonometry. Topics covered are Newtonian Mechanics, electricity and magnetism, waves and optics, thermal physics and atomic and nuclear physics. This course requires a high level of commitment. The AP exam is conducted in May. Independent study is necessary to complete the course requirements. To accommodate this rigorous undertaking, students must start their preparation from the beginning of the summer. Students are required to take the AP Exam in May.

MTHA6311 AP Statistics 5.00 Yr

Successful completion of Pre Calculus or Algebra 2 Trigonometry

AP statistics covers probability, analysis, inference and the methods of how to devise a statistical study. Basically, students become proficient in collecting, analyzing and drawing inferences from data. In addition, students become proficient in using a TI 83 graphing calculator for statistical studies. Students enrolled must take the AP Statistics Exam in May.

SCIA4332 NJIT Physics Dual Enr Honors 6.00 Yr

Physics (Placement test required for non-AE students, teacher recommendation) Co-requisite: Calculus

This full year college level course in Physics is designed to be the equivalent of a one-semester lab-based college course in Physics. Those students wishing to receive a transcript from NJIT at the completion of the course will be required to complete a registration form from NJIT and to pay the appropriate fees for tuition for a four (4) credit course. The tuition rate charged by NJIT is 1/3 the in-state tuition rate charged to regular college students. The course covers topics in physics such as Newtonian mechanics, gravitation, simple harmonic motion, energy, and rotational dynamics. There is a mandatory final examination given in May.

## **Two-day Electives**

FPRZ5314 Advanced CAD 1.00 S

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

Elective

Intro to Engineering Design

Student will use their learning of Autodesk inventor to design more elaborate projects. The emphasis will be placed on advanced surface modeling and object rendering. The class will culminate in a project centered on the detailed representation of a car.

SCIZ5321      Chemical Engineering 1.00    S

Elective

Chemistry

As an introduction to the career track of the chemical engineer, this course will utilize the background knowledge students have gained from chemistry and combine it with the fundamentals of engineering. What does a chemical engineer do? This career can have many applications in industry such as designing chemical plant equipment and devising processes for manufacturing products. The three major areas that will be addressed during this semester course are the thermodynamics of reactions (such as fuels), the separation of materials by distillation/adsorption/ chromatography, and biochemical processes that are related to the development of pharmaceuticals. This course pulls together the related areas of science, technology, and engineering.

FBMZ2320      Experimental Design 1.00    S

Elective

In this course, students use laboratory skills as they design and run their own experiment. Each student formulates a hypothesis, designs an experiment to test that hypothesis, and runs the experiment. Data collection and a final laboratory report are generated during the trimester. Students choose their own area of interest, and this may include some limited live animal use. Students have an opportunity to enter their project into a science fair competition.

FPRZ5315      Flight Science 1.00    S

Elective

The goal is to explore the scientific and engineering principles involved in flight. Students will learn from various sources and then put the information to test in a series of experiments from building a simple wing to designing their own flying model.

FPRZ5316      Introduction to Electronics 1.00    S

Elective

This course is designed for the electronics beginner. Students will be introduced to the fundamental concepts of electricity and electronics components such as resistors, capacitors, transistors, and so forth. Student will read and analyze simple schematics and building them on breadboards.

FPRZ5312      Medibotics 1.00    S

Elective



**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

and will finish with a fun project during which students will be designing a remote controlled car.

**FPRZ5323 Shop Safety 1.00 S**

Elective

Shop Safety will concentrate on certifying students in the use of hand tools, hand power tools, the woodshop, and the metal shop. While the focus will be on safety, students will demonstrate proper use of the equipment through the execution of projects.

Max 3 courses from below for PreEng focus

**ENGZ9314 Career Communications: Technical Writing 1.00 S**

Elective

In this course students differentiate academic and technical writing; identify the components of technical writing as found in abstracts, summaries, mechanical descriptions, memos, letters and reports; and use that information to practice technical writing appropriate to their career focus area.

**ENGZ9315 Media and the Environment 1.00 S**

Elective

This course is a study of environmental and global issues and what can be done to create a sustainable future, along with the media's role in fostering or inhibiting action on these issues. Students examine the concept of bias or slant in newspapers, political writing and TV/Internet newscasts. They complete an in-depth analysis of a major environmental issue, its coverage by left and right wing news groups, and actions that have/have not been taken to address the problem while pinpointing the global ramifications of the issue.

**SSCZ8313 Society & the Environment: Understanding Sustainability 1.00 S**

Elective

Sustainability is a complex, interdisciplinary topic of study. Sustainability refers to meeting current needs without limiting the ability of future generations to meet their needs. Issues of sustainability are receiving worldwide attention as people strive to address problems such as the rich-poor gap, climate change, and overconsumption of natural resources. Students will develop an understanding of important sustainability concepts and their interconnections, such as resource consumption, human population growth, and poverty and social equity. Drawing on the lessons of past civilization collapses, students will consider how to create a sustainable future for people in today's local and global communities, taking into account both personal and structural solutions to current challenges.

**SSCZ8312 The History of Innovation 1.00 S**

Elective

**ENGLEWOOD PUBLIC SCHOOL DISTRICT**  
**DEPARTMENT OF GUIDANCE & COUNSELING SERVICES**  
**HIGH SCHOOL COURSE CATALOG**  
**2015-2016**

The course will focus on advancements of science and in technology from the Stone Age until the modern world. Students will examine the importance of tool building, the extraction of use of metals, and the science and technology of ancient civilizations. Moving on to the Renaissance and emergence of the fields of calculus, physics, and astronomy, students will explore the discoveries that shaped European and American culture. Innovations in life sciences and medicine will include the germ theory, x-rays, antibiotics, and vaccines. Lastly the modern inventions including the combustion engine, nuclear energy, computers, the Internet, and the development of the microchip will be studied.

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