

COURSE DESCRIPTIONS FOR THE 2016-17 ACADEMIC YEAR

ENGLISH DEPARTMENT

English Literature includes a study of classroom novels, classical drama, nonfiction, poetry, and short stories. Particular attention will be paid to basic skills as applied to traditional and nontraditional expository writing. Basic grammar and reading comprehension skills will be reviewed and further developed. Standardized achievement test preparation and vocabulary skills will also be covered.

The content should include:

- active reading of varied texts for what they say explicitly, as well as the logical inferences that can be drawn
- analysis of literature and informational text from varied literary periods to examine:
 - arguments and claims supported by textual evidence
 - elements of literature
 - influence of history, culture, and setting on language
 - personal critical and aesthetic response
 - power and impact of language
 - text craft and structure
- writing for varied purposes
 - crafting coherent, supported informative/expository texts
 - developing and supporting argumentative claims
 - responding to literature for personal and analytical purposes
 - writing narratives to develop real or imagined events
 - writing to sources using text-based evidence and reasoning
- effective listening, speaking, and viewing strategies with emphasis on the use of evidence to support or refute a claim in multimedia presentations, class discussions, and extended text discussions
- collaboration amongst peers

ENGLISH I (1001310)

The purpose of this course is to provide English I students, using texts of high complexity, integrated language arts study in reading, writing, speaking, listening, and language for college and career preparation and readiness.

ENGLISH II (1001340)

The purpose of this course is to provide English II students, using texts of high complexity in World Literature, integrated language arts study in reading, writing, speaking, listening, and language for college and career preparation and readiness.

ENGLISH III (1001370)

The purpose of this course is to provide English III students, using texts of high complexity in American Literature, integrated language arts study in reading, writing, speaking, listening, and language for college and career preparation and readiness.

ENGLISH IV (1001400)

The purpose of this course is to provide English IV students, using texts of high complexity in British Literature, integrated language arts study in reading, writing, speaking, listening, and language for college and career preparation and readiness.

MATHEMATICS DEPARTMENT

ALGEBRA I (1200310)

This course will cover the topics of Algebra including order of operations; variables; problem solving; properties of real numbers; solving linear equations; graphing linear equations and functions; writing linear equations; solving and graphing linear inequalities; systems of linear equations and inequalities; exponents and exponential functions; quadratic equations and functions; polynomials and factoring; and rational expressions and equations. A scientific calculator is required.

ALGEBRA II (1200330)

This course includes a review of the properties of integers and real numbers with an emphasis on equation solving. Other topics include inequalities, absolute value, graphing, functions, complex numbers, systems of equations, exponents, polynomials and their factors, rational expressions and equations, radical expressions and equations, and quadratic equations.

GEOMETRY (1206310)

This course will develop the powers of deductive reasoning. Topics covered include the study of parallelism and perpendicularity in two and three dimensions; angle measurements; congruencies and similarities of plane and solid figures; algebraic and geometric proof; logic; right triangle geometry and trigonometry; lateral area, surface area and volume of solid figures. A scientific calculator is required. Prerequisite: Algebra I or Algebra I Honors.

PRE-CALCULUS (1202340)

This course will cover the topics of polynomial identities; Binomial Theorem; Find limits of rational functions; Intermediate Value Theorem; Extreme Value Theorem; inverse functions; Laws of Sines and Cosines; recognize vector quantities; Construct viable arguments and critique the reasoning of others.

WORLD LANGUAGE DEPARTMENT

SPANISH I (0708340)

This is an introductory course focusing on listening and speaking with an emphasis on reading and writing skills. The course includes beginning vocabulary in a variety of situations, basic grammatical structures, and verb conjugations. Culture from a variety of Spanish-speaking countries is introduced.

SPANISH II (0708350)

This class is designed to follow Spanish I and is taught in Spanish. Students will be challenged from day one, and a brief review of concepts presented in Spanish I will be included, along with the presentation of new material. Additional cultural topics and readings will also be included.

SOCIAL STUDIES DEPARTMENT

WORLD HISTORY (2109310)

The course consists of the following content area strands: World History, Geography and Humanities. This course is a continued in-depth study of the history of civilizations and societies from the middle school course, and includes the history of civilizations and societies of North and South America. Students will be exposed to historical periods leading to the beginning of the 21st century so that students can clearly see the relationship between cause and effect in historical events.

ANTHROPOLOGY (2102300)

This course will teach students to make inferences and justify conclusions from sample surveys, experiments, and observational studies. Some topics that will be covered include: political, economic and social concerns that emerged during the 20th and 21st century, review the role of the US in the global economy; examine the different styles of government throughout the world; compare indicators of democratization in multiple countries.

SCIENCE DEPARTMENT

INTRODUCTION TO PHYSICAL SCIENCE (2003310)

This course will provide student with the opportunity to construct scientific knowledge through the use of hands-on, minds-on activities. The topics covered during this year-long course provide students with a firm basis for further scientific inquiry in all areas of science. Laboratory and problem solving activities as well as critical thinking tasks are presented in a cooperative learning setting.

EARTH/SPACE SCIENCE (2001310)

This course will examine the various bodies in space and define relationships between them. Topics covered include: Big Bang Theory; minerals; earthquakes; global weather patterns; atmosphere and biosphere; surface and deep water motion in oceans; the movement of matter and energy through water.

PHYSICS (2003380)

This course will challenge students to identify patterns in the organization and distribution of matter in the universe and the forces that determine them. Topics include: Newton's Laws; Kepler's Laws. Students will pose questions about the natural world, conduct systematic observations, identify observables and examine relationships between variables and plan investigations.

PHYSICAL EDUCATION DEPARTMENT

HOPE – Physical Education (3026010)

This course will teach students to compare and contrast the various health related benefits of various physical activities. Students will participate in a variety of activities that promote the health-related components of fitness., identify a variety of activities that promote effective stress management and identify the in-school opportunities for participation in a variety of physical activities.

PERSONAL FITNESS (1501300)

This course will allow students to participate in a variety of physical activities to meet the recommended number of minutes of moderate to vigorous physical activity beyond physical education on five or more days of the week. They

will also participate in a variety of activities that promote the health-related components of fitness, identify a variety of activities that promote effective stress management, design a personal fitness program, and apply the principles of training to personal fitness goals.

ELECTIVES

SPEECH (1007300)

This course will teach students how to examine the speeches of great orators and how to formulate different types of speeches. The students will work collaboratively to improve public speaking techniques and skills. Students will not only write and edit speeches, they will also perform and critique speeches.

LIFE MANAGEMENT SKILLS (0800300)

This course will equip students to demonstrate strategies to prevent, manage, or resolve interpersonal conflicts without harming self or others. Students will also research the degree of susceptibility to injury, illness, or death if engaging in unhealthy/risky behaviors. They will also examine how peers, family, school and community influences affect personal health and mental health. They will develop strategies to manage their own life path including completing job applications and interviews; manage personal finances; understand contracts in preparation of renting or buying a home.

MUSIC OF THE WORLD (1300340)

This course will allow students to apply listening strategies to promote appreciation and understanding of unfamiliar musical works, compare, using correct music vocabulary, the aesthetic impact of two or more performances of a musical work to one's own hypothesis of the composer's intent, analyze instruments of the world and classify them by common traits, and evaluate performance quality in recorded and/or live performances.

PRINCIPLES OF ENGINEERING

This a high school-level survey course of engineering. The course exposes students to some of the major concepts that they will encounter in a post-secondary engineering course of study. Students have an opportunity to investigate engineering and high tech careers. This course also gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based learning.