



NAME _____

Rising 12th Grade Electives for 2019 - 20 School Year

Instructions: Read the choices carefully. Place a "1" next to your first choice in each category and a "2" next to your second choice in each category.

SCIENCE ELECTIVES

_____ **Anatomy and Physiology- Honors course** *with Ms. Domenicali Shah*

_____ **Physics** *–with Mr. Pijanowski*

_____ **Environmental Science** *with Mr. Hertko*

if you took Ecology or Environmental Science as a junior, you CANNOT take it again.

HISTORY ELECTIVES

_____ **American Public Policy** (Honors course) *with Mr. Buckley*

_____ **Global Issues, Student Solutions** *with Ms. Jahani*

_____ **Comparative World Religions** *with Ms. Marshall*

Anatomy and Physiology- Honors course with Ms. Domenicali Shah

Anatomy and Physiology (H): This course is a study of the structure and function of the human body including cells, tissues, and organs of the body systems. Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis. The lab provides a hands-on learning experience for exploration of human system components and basic physiology. Systems to be studied include: skeletal, muscular, nervous, digestive, reproductive and more. We will be dissecting cats, fetal pigs, and other animals to gain further understanding. If you are not comfortable with dissecting any of these animals, please sign up for another course – you cannot take this course without participating in dissections.

Physics –with Mr. Pijanowski

Physics is the study of nature at both the smallest and largest scales. Topics include mechanics, gravity, thermodynamics, electromagnetism, and modern physics. We'll also delve into the history of physics, especially the contributions of Isaac Newton, James Clerk Maxwell, and Albert Einstein. We'll explore not only the theory of physics, but how those theories provided for advancement for humanity.

Environmental Science with Mr. Hertko

Environmental Science: This course is an interdisciplinary study of both natural (biology, chemistry, geology) and social (economics, politics, ethics) sciences as they apply to the environment. In this course, we will focus on current global concerns, including global warming, overpopulation, deforestation, pollution, biodiversity and resource use.

American Public Policy (Honors course) with Mr. Buckley

This yearlong course will examine the problems, proposed solutions, and institutional constraints that govern American public policy in a variety of fields. These fields include, but are not limited to: housing, transportation, education, environmental, labor, macroeconomic, diplomatic, and national security policy. Additionally, the course will have a focus on information literacy and being an informed consumer of news, research, and other information. Finally, students will work at developing their analytical writing and public speaking skills throughout the course.

Global Issues, Student Solutions with Ms. Jahani

The main incentive of this 12th grade Global Issues class will be for students to understand the issues facing our modern world. This class will allow students to examine complex problems facing modern societies, but also how each of these problems have to be examined by understanding historical context. Furthermore, students will develop tools to more clearly be able to analyze and understand current global issues, but also how we as individuals can tackle them with sustainable solutions. Overall, we will examine as set of different global issues, carefully uncover its role currently, and examine how it has endured across time.

Comparative World Religions with Ms. Marshall

This course is an academic study of the world's major philosophies, religions and traditions. The course examines each religion's founders, the geography and the historical context, which gave rise to a religion's fundamental doctrines, practices and beliefs. Significant time will be devoted to analyzing the prevailing practices, cultural expressions and evolution of the major nontheistic, polytheistic and monotheistic religions.

Rising 12th grade 2019-20 Creative Arts Electives

Name _____

INSTRUCTIONS: Place a “1” next to your first choice and a “2” next to your second choice.

_____ **Portfolio** - Students in this class are assumed to be developing a portfolio to either showcase an area of interest and strength in visual art or to use as a tool for an application to art school. If a student is interested in a specific school, we will work with you to review portfolio expectations and guide you as best as we can to achieving as many pieces as possible. You will need to do them within the confines of the class. I will require you to complete at least one piece per quarter. We will be using a theme to base work on as a point of departure but the medium you choose will be watercolor, oil, ink, pencil, pastel, gouache, mix media or *maybe* clay. You are strongly encouraged to use references as skill is strongly assessed by most institutions.

_____ **Expression through Dance** – Learn dance styles ranging from Classical to-Hip Hop-Fusion at Studio Maestro! This year, there will be a cheerleading component to the class for those interested! No experience necessary! There will be opportunities to choreograph your own dances and perform for the school (public performance is not mandatory) for 10th - 12th Students.)

_____ **3D Art and Design**-This full year course will be driven by the ideas of individual students. 3D media such as wood, wire, clay, papier-mâché, card board, foam board, metal, and textiles will be offered and projects will be both collaborative as well as individual. Artist studies might include the styles of Richard Serra, Louise Nevelson, Red Grooms, Robert Moore, Giacometti, Joseph Cornell, George Segal, and Claes Oldenburg. Projects may include ceramic food, self-portrait shadow boxes, and larger than life everyday objects.

_____ **Coding II** – Want to learn the language of computer programming? This is the class for you! Coding is a necessary 21st century skill. In this course, students will learn to program games, websites, web applications, and electronic devices, such as robots and LEDs.