

# Krueger Middle School

## Environmental Course Descriptions

### 2017 - 2018



**ENVIRONMENTAL SCIENCE** courses use the KMS campus as an outdoor classroom. The classes are one semester. **If a student receives an A or B in both the 7<sup>th</sup> and 8<sup>th</sup> grade classes, they will receive high school credit.**

**7<sup>TH</sup> GRADE** class is designed as two nine-week units and focuses on land-based activities that impact the local environment including terrestrial and atmospheric systems.

**8<sup>TH</sup> GRADE** class is designed as two nine-week units. Students analyze interactions between plant, animal, and human activity that determine the overall health of our local habitat.

**WELLNESS** combines physical education and health classes with an environmental emphasis. The focus is the enjoyment of the outdoors, as well as education and stewardship of our natural resources. The goal is to give students the knowledge and the skills to be active in their environment and to increase participation and sensitivity to management and preservation efforts. Orienteering, outdoor lawn games, fishing, and archery are units that have been added to the curriculum.

**ENVIRONMENTAL TECHNOLOGY** is a hands-on, problem-based learning opportunity. Students develop, produce, use, and assess projects related to activities in the KMS Environmental Science courses. Students develop individual and teamwork skills. Students in this class are responsible for building and maintaining the trails and learning stations for the Bird Habitat Path, Savanna Prairie, and the Forest Management Area.

**ADVANCED TECHNOLOGY** works on integrating environmental science and computer applications such as Microsoft Excel, Word, PowerPoint, and Google Docs. Coding/computer programming will be explored. Internet research skills and digital citizenship will also be addressed. Final PowerPoint projects investigating regional climate change and renewable energy sources will be created.

**ENVIRONMENTAL ART** introduces students to artistic practices that directly engage with how we see, represent, experience, damage, draw inspiration from, and create the physical environment. We will focus predominantly on visual artists, while examining their creative and critical work. Students will view images, paintings, photographs, sculptures, installation projects, and films. They will shape class discussions by presenting research and by devising a creative final project.





# Krueger Middle School

## Academic Honors Course Descriptions

### 2017 - 2018

#### **7<sup>TH</sup> GRADE**

**7<sup>TH</sup> GRADE HUMANITIES** is an advanced writing course working with High Abilities (HA) Social Studies to study government, citizenship, environmental issues, and Native American groups of Indiana through individualized research projects.

**7<sup>TH</sup> GRADE HA SOCIAL STUDIES** is an in-depth study of the history, geography, government, economics, and culture of the Eastern World connected to the local community. Students focus on accelerated content, higher level thinking, and differentiated assessment.

#### **8<sup>TH</sup> GRADE**

**8<sup>TH</sup> GRADE HUMANITIES** is an advanced writing course working with HA Social Studies to study the legislative process and participate in a Mock Congress. Other content includes the Industrial Revolution, pioneer days in Indiana, and the American dream assessed with differentiated individual research projects.

**8<sup>TH</sup> GRADE HA SOCIAL STUDIES** is an in-depth study of Early American history through with the Civil War. Students research, compare, and apply content in alignment with Indiana standards to modern day issues.

**BRINGING HISTORY TO LIFE IS A PROGRAM UTILIZING HUMANITIES AND SOCIAL STUDIES IN BOTH 7<sup>TH</sup> AND 8<sup>TH</sup> GRADES. IT IS PRESENTED TO LOCAL 4<sup>TH</sup> GRADE STUDENTS.**

**7<sup>TH</sup> GRADE ADVANCED SCIENCE** is an accelerated science class for students who excelled in elementary science. This class is an accelerated class that squeezes 7th and 8th grade science into one year with a faster pace and by deleting all of the life science 7th and 8th grade standards. Students who do well in this class will be eligible to take Biology in 8th grade.

**7<sup>TH</sup> GRADE PRE-ALGEBRA** prepares students for Algebra I. The curriculum includes, but is not limited to, computation with rational numbers, solving and graphing linear equations and inequalities, Pythagorean Theorem, and problem solving.

**BIOLOGY I** is high school Biology. (**Students will receive high school credit if they earn a grade of C or above.**) Using laboratory and field investigations, students focus on Biology I standards.

**ALGEBRA I** continues the study of algebraic concepts including operations with real numbers and polynomials, relations and functions, creation and application of linear functions and relations, and an introduction to nonlinear functions. Appropriate technology, from manipulative to computers, will be used regularly for instruction and assessment.

**In order to receive high school credit, students must earn a grade of "C" or higher, receive their teacher's recommendation, and earn either two (2) math credits or two (2) credits in physics during the student's last two years in high school.**