**Environmental Science Syllabus 2015-2016**

**Apollo High School**

 **Ms. Herrboldt**

**Course Outline:**

**Unit 1:** Intro to Environmental Science/Environmental Issues

 Topics: Energy transfer, populations, communities, food webs, food chains, ecology.

**Unit 2:** Water

 Topics: Lakes, rivers, wetlands, groundwater, water quality, wastewater, oil spills.

**Unit 3:** Food Security

 Topics: Bioengineering, GMO, land use, agriculture, pesticide, soil

**Unit 4:** Energy Crisis

 Topics: Alternative Energy, Ozone, acid rain, global warming, greenhouse effect, pollution, weather, power plants, waste.

**Unit 5:** Waste Management

 Topics: Recycling, waste, compost, garbage.

**Unit 6:** Wildlife Management & Minnesota Animals

 Topics: Success stories, endangered or threatened species, conservation, fisheries

 Topics: Birds, mammals, fish, reptiles, amphibians, tracks, skulls.

**Unit 7**: Zoos

 Topics: Captive breeding programs, endangered species, enclosures.

**Unit 8:** Minnesota Plants and Outdoor Survival

 Topics: Trees, flowers, edible plants, dichotomous keys, survival kit, compass, orienteering.

**Required Materials:**

Daily:

* Notebook or 3-ring binder with loose leaf paper
* Pencil or pen (no red ink)

On request:

* Colored pencils or markers
* Scissors
* Calculator
* Glue

**Text:**

HOLT *Environmental Science* by Karen Arms

**Readings:**

*Be expert with Map & Compass: The Complete Orienteering Handbook* by Bjorn Hjellstrom

Various Journal Articles

**Videos:**

An Inconvenient Truth

11th Hour

Human Footprint

Dirt: The Movie

Medicine Man

Food, Inc.

The Lorax

Planet Earth

Dances with Wolves

A Civil Action

Erin Brochovich

**Required Web Resources**schoology.com

khanacademy.org

**Assessments and Grading**

Grading: A, A-, B+, B, B-, C+, C, C- ,D+, D, D-, F

Assessments:

* At least 1 project per trimester
* 1 exam per unit (8 total units)
* At least 1 quiz per unit (vocabulary, pop, reading, video, etc.)

**General Classroom Expectations:**

* Arrive to class on time with necessary materials.
* Sit in assigned seat.
* Take all notes, complete all assignments.
* Work effectively in groups (student determined or teacher determined).
* Remain quiet while instructor is teaching.
* Keep all PEDs off or on silent. Use PEDs only when allowed by instructor.
* Be respectful of yourself, other students, and the instructor.