

## **Wildlife Biology – Mrs. Hover**

**Prerequisites:** Biology 1 and Earth & Space Science with a grade of 'C' or better in each

**Course Overview:** Wildlife Biology covers the current and historical management and conservation of wildlife. Science based management emphasizing habitat and sustainable wildlife populations is an underlying theme. Current wildlife management issues and social implications of management decisions are covered as well.

The content of this course is arranged around the Next Generation Science (NGS) standards  
The standards include four life science core ideas that are blended with Science and Engineering Practices

LS1: From Molecules to Organisms: Structure and Processes

LS2: Ecosystems: Interactions, Energy, and Dynamics

LS3: Heredity: Inheritance and Variation of Traits

LS4: Biological Evolution: Unity and Diversity

The units in this class fall mainly under the following:

Science and Engineering practices

LS2: Ecosystems: Interactions, Energy and Dynamics

To look at these in more detail, please click on the link below

[Next Generation Science Standards](#)

The subject matter learned in this class is important to Montana, the United States and the World! This class will allow you to become more knowledgeable about many wildlife and land use issues. This course is designed to make you an informed citizen about the complex issues that face us in **managing** and **conserving** a limited resource in a high-tech world with the ever growing human population.

This is an advanced science course. It will challenge you and give you the confidence to accept greater academic responsibility and prepare you for future studies. This is NOT a required class so be sure you are willing to accept this responsibility for success.

### **Topics Covered**

**Classification of Wildlife**

**History of Wildlife Conservation & Management - landmark case studies in Wildlife Conservation**

**Principles of Wildlife Management including management model**

**Tools & Techniques used in Wildlife Management and field research**

**Aquatic Habitat Analysis**

**Fisheries Management**

**Population Management including dynamics and inventory techniques**

**Current Issues in Wildlife Management**

**Endangered Species management – Listing/Delisting Process**

**Mammalogy**

**Furbearer and Bear Ecology/Management**

**Local, Regional, National and International Wildlife Issues**

**Ornithology and Nongame Management**

Techniques used to present the topics will include a variety of approaches, including but not limited to lecture, readings, simulations, field studies, current events, labs, group and individual research projects, student generated presentations, guest speakers and field trips.

As field trips are an extension of concepts learned in class, a 'C' grade average is required to participate in all field trips held outside the regular class period

### **Attendance and homework**

You are expected to be here and on time each day with your materials ready to go to work. If you are absent from class, the student handbook will determine how much time you have to make up missed work for excused absences. Note the different policy for Current Events and projects because they are standing assignments. You are responsible for getting your make-up assignment from me or a classmate and making arrangements to complete it. It is expected that missing work or help with assignments will be done during office hours. I will not chase you down. If the time expires without completion of a missed assignment, a zero will be entered in the grade book.