

**Course Name:** BioMed Year 2- Human Biological Systems

**Duration:**  1 Semester  Full Year

**Grade Level:**  9th  10th  11th  12th (check all that apply)

**Are there any prerequisites for the course?**

Successful completion of first year biomed, (Principals of Biological Systems).

**WHAT this course is about:**

This course is a about the parts of the body, (anatomy) and how the body works, (physiology). The third major part of this class is learning about different careers associated with health care.

**WHY take this course:**

Take this course if you are an independent learner who has an interest in either the human body or health care.

**WHAT you'll learn:**

You will learn about the different systems of the human body. You will know the parts of each system, how each system works and diseases that cause each system to work correctly. You will also spend time researching different health care careers.

**WHAT you'll do:**

In this course you will learn anatomy with a small skeleton called a Maniken. We will put most of the body systems on this skeleton using clay. You will also spend time doing many different experiments that show how the body works. Some of these experiments include: measuring your heart cycle, measuring your lung function, forensic identification of skeletal remains, DNA electrophoresis, and much more.

**WHERE this could take you:**

This class is an excellent class for anyone interested in the health care or medical fields including future doctors, nurses, physical therapists, and dentists. If you are not interested in directly working with patients, this course can also lead to jobs in a hospital, doctors office or orthodontist office. Did you know that the people at the front desk at doctors offices often have to take an anatomical vocabulary test?

**OPTIONAL Course Outline ("scope and sequence", sequence chart, etc.)**

This course is taught thematically.

Unit 1: Identity (what makes you unique)

Unit 2: Communication (both inside and outside the body)

Unit 3: Energy (how your body gets energy. Hint: it's not energy drinks!)

Unit 4: Movement (how your body moves inside and out)